BEFORE THE NATIONAL GREEN TRIBUNAL

CENTRAL ZONE BENCH

ORIGINAL APPLICATION NO. _____OF 2021

(Under Section 18(1) read with Section 14, 15, 17, 19 & 20 of the National Green Tribunal Act, 2010 and Rule 8, 11, 12, 13 & 14 of National Green Tribunal (Practice & Procedure) Rules, 2011)

IN THE MATTER OF:

Consumer Unity & Trust Society (CUTS), Jaipur ...Applicant

Versus

State of Rajasthan & Others ...Respondents

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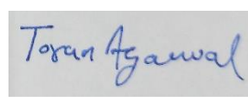
APPLICANT

Through



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Place: Jaipur

Dated: 14.10.2021

BEFORE THE NATIONAL GREEN TRIBUNAL

CENTRAL ZONE BENCH

ORIGINAL APPLICATION NO. _____OF 2021

IN THE MATTER OF:

Consumer Unity & Trust Society (CUTS), Jaipur ...Applicant

Versus

State of Rajasthan & Ors. ...Respondents

SYNOPSIS

The present Application *inter alia* arises from the inactions and callous approach of the Respondents i.e., the concerned State Government departments over the years for not implementing the directions of this Hon'ble Tribunal in relation to the use of pressure/ air horns and motor vehicles being driven with intolerable sound which is violative of the prescribed norms in the Noise Pollution Rules, 2000 which have been enacted under the Environment (Protection) Act, 1986, one of the Scheduled Act of the National Green Tribunal Act, 2010.

Therefore, in accordance with the previous decisions of the Apex Court and this Hon'ble Tribunal, the Applicant herein is *inter alia* seeking that an Environmental Compensation of Rs. 5,000/- per violation on the basis of "Polluter Pays Principle" be imposed on every offender. Further, this Environmental Compensation be collected and deposited by the Traffic Police in a separate account that would be maintained by the Rajasthan Police or the State of Rajasthan as the Chief Secretary of Rajasthan may decide which should be used to fulfil the mandate of the existing noise pollution control rules.

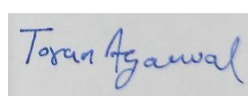
LIST OF DATES

Date	***Event***
20.07.2016	Order of Hon'ble N.G.T., Principal Bench, Delhi in the matter, '*Vardhaman Kaushik vs. Union of India'* in Original Application No. 21/2014, dated 20.07.2016, empowering Delhi Police to collect Environment Compensation of Rs. 5,000/- per violation.
01.08.2019	Order of Hon'ble N.G.T., Principal Bench, Delhi in the matter, '*Hardeep Singh vs. S.D.M.C. & Ors.'* in Original Application No. 519/2016, dated 01.08.2019, directing C.P.C.B. to devise the scale of compensation to be adopted as a measure to enforce Noise Pollution (Regulation and Control) Rules, 2000.
13.01.2021	Letter of Applicant to Hon'ble Chief Minister of the State on the problem of unchecked noise pollution in the State.
18.02.2021	Letter of Applicant to Chairman and the Managing Director of Rajasthan State Road Transport Corporation ("***RSRTC***") on the use of Air Pressure Horns in the State owned buses.
23.02.2021	Letter of Executive Director (Mechanical) of RSRTC to the Chief Managers of all the Bus Depots whereby Managers were directed to ensure that the horns should not be used unrestrictedly and without any just cause.
18.03.2021	Letter of Applicant to Executive Director (Mechanical) of the RSRTC enquiring about the departmental actions, if any taken so far by the Corporation.
05.04.2021	Letter of Applicant to Executive Director (Mechanical) of the RSRTC enquiring about the departmental actions, if any taken so far by the Corporation.
31.08.2021	Letter of Executive Director (Mechanical) of the RSRTC to Applicant that only directions to Chief Managers of

	Bus Depots have been passed through letter dated 23.02.2021.
03.09.2021	Report of Dainik Bhaskar on disastrous levels on noise pollution and unwilling efforts by the State Government to control it.
06.09.2021	Letter by Secretary General of the Applicant to the Chairman and Managing Director of the RSRTC on the glaring situation in the State in wake of 03.09.2021 report by Dainik Bhaskar.
29.09.2021	Recent news report of Dainik Bhaskar on disastrous levels on noise pollution and unwilling efforts by the State Government to control it.
	The Hon'ble Chief Minister's office of the State of Rajasthan failed to give any response or assurance on representation of the Applicant to effectively implement the noise pollution control laws and impose various measures.
	Hence, the present Original Application.

APPLICANT

Through



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ORIGINAL APPLICATION NO. _____OF 2021

(Under Section 18(1) read with Section 14, 15, 17, 19 & 20 of the National Green Tribunal Act, 2010 and Rule 8, 11, 12, 13 & 14 of National Green Tribunal (Practice & Procedure) Rules, 2011)

MEMORANDUM OF APPLICATION

Between

Consumer Unity & Trust Society (CUTS), Jaipur through its Assistant Director Shri Deepak Saxena, having its office at D-218, Bhaskar Marg, Bani Park, Jaipur 302016, Rajasthan, India

Email:- ds@cuts.org ...**Applicant**

-And-

1- State of Rajasthan
Through the Chief Secretary,
Secretariat, Jaipur (Rajasthan), 302005
Email:- cmrajasthan@nic.in …**Respondent No. 1**

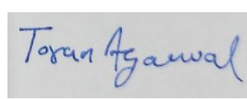
2- Department of Environment
Through the Principal Secretary (Environment),
Room No. 2202, Main Building, Government Secretariat,
Jaipur, (Rajasthan), 302005
Email:- env.dept@rajasthan.gov.in …**Respondent No. 2**

3- Department of Home
Through the Principal Secretary (Home)
Government Secretariat,
Jaipur, (Rajasthan), 302005
Email:- home.cordination@rajasthan.gov.in …**Respondent No. 3**

4- Department of Transport
Through the Principal Secretary (Transport)
Parivahan Bhawan, Sahakar Marg,
Jaipur, Rajasthan, 302001
Email:- addl.it.tdr@rajasthan.gov.in …**Respondent No. 4**

5- Rajasthan State Pollution Control Board
Through the Member Secretary
4, Jhalana Institutional Area, Jhalana Doongri,
Jaipur (Rajasthan), 302004
Email:- acp.rpcb@rajasthan.gov.in ...**Respondent No. 5**

APPLICANT
Through



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Place: Jaipur

Dated: 14.10.2021

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ORIGINAL APPLICATION NO. _____OF 2021

Between

Consumer Unity and Trust Society (CUTS), Jaipur

...Applicant

-And-

State of Rajasthan & Ors. ...Respondents

To,

The Hon'ble Chairman and the other Companion Members of the Hon'ble Tribunal

MOST RESPECTFULLY SHOWETH:

1. The address of the Counsels of the Applicant is given for services of notices of this application.
2. The addresses of the Respondents are given above for service of notices of this application.
3. The Applicant above named begs to present the Memorandum of Application in light of the order dated 20.07.2016 of Hon'ble National Green Tribunal, Principal Bench, Delhi in the matter, *Vardhaman Kaushik vs. Union of India* [annexed as **ANNEXURE A-1**] whereby the bench headed by the then Hon'ble Chairperson while recognising the plight of general public faced with the noise pollution from unbridled use of already illegalised pressure horns, unnecessary honking and vehicular movements, empowered the Delhi Police to collect Environment Compensation of Rs. 5,000/- per violation, in addition to other already prescribed statutory penalties. Therefore, the present application is preferred on the facts and grounds set- out hereunder:

4. **FACTS: -**

4.1. That, the Applicant is a Non-Governmental Organisation registered and incorporated on 11.06.1984 under the Rajasthan Societies and Registration Act, 1958 and has been working tirelessly for nearly past 40 years towards a better society and encouraging changes at the policy level by working with the government machinery by sensitising and aiding it on the issues which concern the welfare of common person.

4.2. That the Applicant is actively involved in raising the road safety issues through several awareness programmes and campaigns. The Applicant's work on the Road Safety in 1990 proved to be quintessential and played a key role in development of the first National Road Safety Policy in 1993 which was the first ever road safety policy of the country, seeking to reduce the death level from road accidents and was nominated to the National Road Safety Council twice to provide its invaluable inputs.

4.3. That the Applicant in pursuit of its paramount goal of enabling the common man realise its legal rights and prerogatives is submitting before this Hon'ble Tribunal through this Application on behalf of every denizen of the State of Rajasthan.

4.4. That the Applicant has been working incessantly with the responsible State machineries on the issue of noise pollution through vehicular movement and incessant unnecessary honking. However, every representation made by the Applicant to the Respondent Authorities has been returned without any conclusion. The Respondent Authorities remain unheeded to the impending dangers of the noise pollution through unchecked vehicular movements and continuous honking, on the present and the coming generations of the State, thus obligating the Applicant to submit its cause to this Hon'ble Tribunal.

4.5. That the Applicant being mindful of the tribulations and anguish suffered by the common denizen of the State of Rajasthan due to the inactions and lackadaisical approach of the Respondent

Authorities has preferred the present Application under Section 18(1) read with Section 14, 15, 17, 19 & 20 of the National Green Tribunal Act, 2010 and Rule 8, 11, 12, 13 & 14 of National Green Tribunal (Practice & Procedure) Rules, 2011.

4.6. That before making the present application, the Applicant made representation to the Hon'ble Chief Minister of the State through a letter dated 13.01.2021 [annexed as **ANNEXURE A-2**], whereby the Applicant brought to the notice of the Hon'ble Chief Minister the problem of unchecked honking. The Applicant explained the deleterious effects that the unprompted and unmindful honking poses to the society at large and if the same is allowed to continue in the absence of any executive check, the subsequent problems that present and coming generations would face eventually were highlighted in their full ambit. The Applicant also pointed towards the biggest contributors of the noise pollution in the State and to the deleterious short term and long-term effects of the surging practice of honking considering increasing traffic and commuters on the road. Further, the Applicant also drew the attention of the Hon'ble Chief Minister to the similarly placed capitals of country and their successful efforts and indelible political will power which has made them honking free. The Applicant through its representation brought to the notice of the Hon'ble Chief Minister, various statutory provisions which can be brought into effect to keep the ever-growing menace of honking under check.

4.7. That the Applicant has not received any response or any assurance in oral or written manner from the Hon'ble Chief Minister's office till date. The Applicant in its relentless pursuit of a better future for the people of Rajasthan after waiting for a considerable period of time in absence of any positive or assuring response to its previous unheeded representation to the Hon'ble Chief Minister, approached the Chairman and the Managing Director of the single biggest contributor to the honking in the

State i.e., State owned and run, Rajasthan State Road Transport Corporation ("**RSRTC**" or "**Corporation**") *vide* letter dated 18.02.2021 [annexed as **ANNEXURE A-3**]. The Applicant *vide* aforesaid letter brought to the notice of the RSRTC, the agonizing effects of use of air pressure horns by the State-owned buses on daily basis in their normal course of commutation throughout the State which violate the existing applicable and governing laws on the noise pollution. The Applicant presented the Chairman and the Managing Director (CMD) of the RSRTC with the much-needed panoramic view of the problem at hand to make the Corporation realise as to how, by its own conduct it is liable for the repeated violation of the law laid in statutes and the judgments passed by the Hon'ble Apex Court and this Ld. Tribunal.

4.8. That the Executive Director (Mechanical) of the Corporation in receipt of the Applicant's letter dated 18.02.2021, after becoming cognizant of the impending dangers that the unbridled use of heavy pressure horns in the State owned and run buses in long term will cast on the state of welfare of the people in the State, directed the Chief Managers of all the Bus Depots under the Corporation *vide* its letter dated 23.02.2021 [annexed as **ANNEXURE A-4**] to ensure that peremptory actions should be taken to ensure that the horns should not be used unrestrictedly and without any just cause. That the Chief Managers of all the Bus Depots under the Corporation were obligated to report to the Executive Director with necessary proofs of the subsequent actions taken within 7 days of the receipt of the letter dated 23.02.2021, towards which, however till date i.e., 6 months from the intended date, there has been no positive action or response from the Chief Manager on record to the letter dated 23.02.2021 from the Executive Director (Mechanical) of the Corporation.

4.9. That the Applicant yet again wrote a letter to the Executive Director of the Corporation on 18.03.2021 [annexed as

ANNEXURE A-5] i.e., after a month from its previously addressed letter to the aforesaid office, reminding him of the issue at hand and his letter dated 23.02.2021 addressed to the Chief Managers of all the Bus Depots under the Corporation and its contents thereby and further, enquiring about the status of the departmental actions, if any taken so far by the Corporation.

4.10. That, the Applicant after patiently waiting for any conclusive actions or the preparations from the Corporation had to write to the Executive Director of the Corporation again on 05.04.2021 [annexed as **ANNEXURE A- 6]** i.e., after a month from its previously addressed letter to the aforesaid office, reminding him of the issue at hand and his letter dated 23.02.2021 addressed to the Chief Managers of all the Bus Depots under the Corporation.

4.11. That, the Executive Director of the Corporation was obliged to acquaint the Applicant for any of the actions or directions taken or given by the Corporation on the cause in deliberation. The Corporation in being such unresponsive and impassive to such an important pressing need and call has not acted in consonance with the faith and trust that the general masses repose in such an important, integral, and indispensable body working towards the general welfare and upkeep of the State. That the Corporation by acting in totalitarian manner has not acted in accordance with the duties and faith that have been endowed upon it and has not even adhered to the basic professional etiquettes that should have been part of its basic public grievance scheme.

4.12. That the Executive Director (Mechanical) of the Corporation in receipt of the Applicant's letter above letter dated 05.04.2021 and incessant efforts and reminders made by the Applicant in the public spirit finally relented to inform the Applicant through letter dated 31.08.2021 [annexed as **ANNEXURE A- 7]** that the Chief Managers of all the Bus Depots under the Corporation have been proscribed to use excessive horns however failed to provide

any proof or the mechanisms adopted by the Corporation to enforce the mandate.

4.13. That the nuisance of noise pollution has also been the concern of the Traffic Police Department of the State wherein the Traffic Police in the State Capital i.e., Jaipur as reported in the widely read and recognized newspaper in the State i.e., Dainik Bhaskar in its edition dated 03.09.2021 [annexed as **ANNEXURE A- 8**], has sought out to curb and control the menace through innovative efforts wherein the culprits would be identified and fined only after their 5th recorded default in declared silence zones.

Additionally, the newspaper also recorded that as per the latest report of the State Pollution Control Board released in 2021, the noise pollution standards as prescribed in letters of law have not been complied with.

4.14. That in the light of the deplorable and ignorant state of affairs in the State, the Secretary General of the Applicant wrote to the Chairman and Managing Director of the Corporation *vide* letter dated 06.09.2021 [annexed as **ANNEXURE A- 9**],wherein the attention was drawn towards the continuous representations that the Applicant has made to the Executive Director (Engineering) of the Corporation over the course of several months and the detailed report by the newspaper Dainik Bhaskar dated 03.09.2021 on the subject.

4.15. That on 29.09.2021, the daily newspaper Dainik Bhaskar [annexed as **ANNEXURE A-10**], made shocking revelations that, over 70% of the noise pollution in the capital of the State, Jaipur, is being caused by a single source i.e., vehicular noise pollution. Further, as per the report, the intensity of vehicular horns in some cases is well above 100 decibels which is much more in comparison to the safety standards of 55 decibels in Residential areas as prescribed by law thus, aggravating and worsening the situation in the face of rising vehicular and population numbers.

4.16. That, since no action has been taken by the responsible State machineries/ Respondents on the issues raised by the Applicant from time to time, the Applicant was constrained to approach this Hon'ble Tribunal.

4.17. **STATUTORY PROVISIONS**

4.17.1. ***Constitution of India, 1950***

4.17.1.1. That Article 21 of the Constitution guarantees 'heart of fundamental rights' and is as follows:

> *"21. Protection of life and personal liberty.—No person shall be deprived of his life or personal liberty except according to procedure established by law."*

4.17.1.2. That the Hon'ble Apex Court in ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high volume producing sound systems,*** *(2005) 5 SCC 733,* has *inter alia* held that Article 21 is not of mere survival and include aspects which make a person's life meaningful, complete and worth living.

4.17.2. ***Environment (Protection) Act, 1986***

4.17.2.1. That the *Environment (Protection) Act, 1986 (hereinafter* referred as **'Act'**) provides for the protection and improvement of environment and for matters connected therewith, with the sole objective of fostering and promoting policies and decisions which relate to the protection and improvement of environment and the prevention of hazards to human beings, other living beings including flora and the property.

4.17.2.2. That the Hon'ble Apex Court recently in the decision of ***State of Madhya Pradesh vs. Centre for Environment Protection Research and Development and Ors.,***

*MANU/SC/0647/2020***,** went to great lengths to discuss the importance and purpose of the Act and held as follows:

> *"9. Later, the Environment (Protection) Act, 1986 was enacted to provide for protection and improvement of environment and for matters connected therewith, with the view to implement the decision taken at the United Nations Conference on Human Environment at Stockholm in June, 1972, in which India had participated.*
>
> *10. The Statement of Object and Reasons of the Environment (Protection) Act is set out herein below for convenience:*
>
> > *1. ...The world community's resolve to protect and enhance the environmental quality found expression in the decisions taken at the United Nations Conference on the Human Environment held in Stockholm in June 1972. The Government of India participated in the Conference and strongly voiced the environmental concerns. While several measures have been taken for environmental protection both before and after the Conference, the need for a general legislation further to implement the decisions of the Conference has become increasingly evident.*
> >
> > *2. Although there are existing laws dealing directly or indirectly with several environmental matters, it is necessary to have a general legislation for environmental protection. Existing laws generally focus on specific types of pollution or on specific categories of hazardous substances. Some major areas of environmental hazards are not covered. There also exist uncovered gaps in areas of major environmental hazards. There are inadequate linkages in handling matters of industrial and environmental safety. Control mechanisms to guard against slow, insidious build up of hazardous substances especially new chemicals in the environment, are weak. Because of a multiplicity of regulatory agencies, there is need for an authority which can assume the lead role for studying, planning and implementing long term requirements of environmental safety and to give direction to, and co-ordinate a system of*

speedy and adequate response to emergency situations threatening the environment.
3. In view of what has been stated above, there is urgent need for the enactment of a general legislation on environmental protection which inter alia, should enable co-ordination of activities of the various regulatory agencies, creation of an authority or authorities with adequate powers for environmental protection, Regulation of discharge of environmental pollutants and handling of hazardous substances, speedy response in the event of accidents threatening environment and deterrent punishment to those who endanger human environment, safety and health.
4. The Bill seeks to achieve the above objects."

4.17.2.3. That the Act is applicable to the whole of India and defines '*environment', 'environment pollutant'* and '*environmental pollution'* as below in Section 2 of the Act:-

"*2. Definitions.—In this Act, unless the context otherwise requires,—*

(a) "environment" <u>includes</u> water, air and land and the <u>inter-relationship which exists among and between</u> water, air and land, <u>and human beings, other living creatures,</u> plants, micro-organism and property;

(b) "environmental pollutant" means any solid, liquid or gaseous <u>substance</u> present <u>in such concentration</u> as may be, <u>or tend to be, injurious to environment</u>;

(c) "environmental pollution" means the <u>presence in the environment of any environmental pollutant</u>;

4.17.2.4. That according to the Act any substance in concentration which tends to be injurious to environment is an environment pollutant wherein environment includes but

is not limited to any inter- relationship which exists among and between water, air and land, and human beings, other living creatures.

4.17.2.5. That as per the Section 7 of the Act no person in any operation or process should emit or be permitted to emit any environmental pollutant in excess or such standards as prescribed.

4.17.2.6. That Section 15 of the Act lays down that any violation or failure of compliance with provisions of this Act, or the rules made or orders or directions issued thereunder, shall, in respect of each such failure or contravention, be punishable with imprisonment for a term which may extend to five years or with fine which may extend to one lakh rupees, or with both, and in case the failure or contravention continues, with additional fine which may extend to five thousand rupees for every day during which such failure or contravention continues after the conviction for the first such failure or contravention.

4.17.2.7. That by the combined reading of the above-mentioned provisions of the Act, no person in any operation or process should emit or be permitted to emit any environmental pollutant in excess or such standards as prescribed, in any form which tend to be injurious to any inter- relationship which exists among and between water, air and land, and human beings, other living creatures.

4.17.2.8. ***Environment (Protection) Rules, 1986***

4.17.2.8.1. That in exercise of the powers conferred by sections 6 and 25 of the Act, the Central Government published the 'Environment (Protection) Rules, 1986' (hereinafter referred as '**Protection Rules**'), in the Gazette of India vide number S.O. 844(E), dated 19.11.1986.

4.17.2.8.2. That as per Rule 3(2) of the Protection Rules, Central Pollution Control Board or State Pollution Control Board may provide for more stringent standards as those already made by the Central Government by the force of the Act or the Protection Rules.

4.17.2.8.3. That the Central Government inserted Schedule III i.e., '*Ambient Air Quality Standards In Respect Of Noise*' to the Rules *vide* GSR 1063(E), published in the Gazette No. 643 dated 26.12.1989. The relevant details of the abovementioned notification are being reproduced below:

Area Code	**Category of Area**	**Limits in dB (A) Leq.**	
		Date Time	**Night Time**
(A)	Industrial Area	75	75
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

The Schedule Notes of Schedule III of the Protection Rules specifically banned any use of Vehicular horns in the Silence Zones. Thus, any violation of the above-mentioned limits violates the mandate of the Indian law.

4.17.2.8.4. That, the Central Government introduced, *'Noise Limits for Vehicles applicable at Manufacturing Stage'* (hereinafter referred as '**Limits**') [annexed as **ANNEXURE A-11]** were notified by Environment (Protection) Amendment Rules, 2000, *vide* G.S.R. 742(E), dated September 25th, 2000 which were then subsequently amended *vide*, Rule

2 of the Environment (Protection) Fourth Amendment Rules, 2002 notified by the Notification G.S.R.849(E), dated 30.12.2002, were inserted at serial no. 93 of Schedule I of the Environment (Protection) Rules, 1986.

The Limits were further categorised in two sub-lists whereby the manufacturers of vehicular description mentioned in the first category were to follow the prescribed noise limits at the manufacturing stage from the year 2003 whereas the manufacturers of vehicular description mentioned in the second category were to follow the prescribed noise limits at the manufacturing stage from April 1st, 2005. However, as per the proviso to the notification, vehicles mentioned at serial numbers 3.0 to 6.3 in the second category list, were bound to follow the prescribed noise limits for vehicles of such description in the State of Rajasthan from June 1st, 2005.

That the relevant details of the abovementioned notification are being reproduced below:

(1) Noise limits for vehicles applicable at manufacturing stage from the year 2003

Serial Number	Type of vehicle	Noise limits dB(A)	Date of implementation
(1)	(2)	(3)	(4)
1.	Two wheeler		1st January,2003
	Displacement upto 80 cm^3	75	
	Displacement more than 80 cm^3 but upto 175 cm^3	77	
	Displacement more than 175 cm^3	80	
2.	Three wheeler		1st January,2003
	Displacement upto 175 cm^3	77	
	Displacement more than 175 cm^3	80	
3.	Passenger Car	75	1st January, 2003
4.	Passenger or Commercial Vehicles		1st July, 2003
	Gross vehicle weight upto 4 tonnes	80	
	Gross vehicle weight more than 4 tonnes but upto 12 tonnes.	83	
	Gross vehicle weight more than 12 tonnes.	85	

(2) Noise limits for vehicles applicable at manufacturing stage applicable from 1st April, 2005

S. No.	Type of vehicle	Noise Limits from 1st January, 2003, dB(A)
1.0	**Two wheeler**	
1.1	Displacement upto 80 cc	75
1.2	Displacement more than 80 cc but upto 175 cc	77
1.3	Displacement more than 175 cc	80
2.0	**Three wheeler**	
2.1	Displacement upto 175 cc	77
2.2	Displacement more than 175 cc	80
3.0	**Vehicles used for carriage of passengers and capable of having not more than nine seats, including the driver's seat**	74
4.0	**Vehicles used for carriage of passengers having more than nine seats, including the driver's seat, and a maximum gross Vehicle Weight(GVW) of more than 3.5 tonnes**	
4.1	With an engine power less than150 KW	78
4.2	With an engine power of 150 KW or above	80
5.0	**Vehicles used for carriage of passengers having more than nine seats, including the driver's seat: Vehicles used for carriage goods.**	
5.1	With maximum GVW not exceeding 2 tonnes	76
5.2	With maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes	77
6.0	**Vehicles used for transport of goods with a maximum GVW exceeding 3.5 tonnes.**	
6.1	With an engine power less than 75 KW	77
6.2	With an engine power of 75 KW or above but less than 150 KW	78
6.3	With an engine power of 150 KW or above,	80"

4.17.2.9. ***Noise Pollution (Regulation and Control) Rules, 2000***

4.17.2.9.1. The Central Government in exercise of the powers conferred by clause (ii) of sub-section (2) of Section 3, sub-section (1) and clause (b) of sub-section (2) of section 6 and section 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with rule 5 of the Environment (Protection) Rules, 1986, promulgated the Noise Pollution (Regulation and Control) Rules, 2000, (hereinafter referred as '**Rules**') to regulate and control noise producing and generating sources with the objective of maintaining the ambient air quality standards in respect of noise to realise the overall development and wellbeing of citizens of the nation.

4.17.2.9.2. That the lawmakers seated in the Indian Parliament well cognizant of the deleterious effects of the unchecked noise pollution have voiced their concerns about the issue and the purpose of the so

promulgated law expressly in the Statement and Object of the Rules, wherein it expressly provided that:

> *"Whereas the increasing ambient noise levels in public places from various sources, inter-alia, industrial activity, construction activity, fire crackers, sound producing instruments, generator sets, loud speakers, public address systems, music systems, vehicular horns and other mechanical devices have deleterious effects on human health and the psychological wellbeing of the people, it is considered necessary to regulate and control noise producing and generating sources with the objective of maintaining the ambient air quality standards in respect of noise."*

4.17.2.9.3. That as per the Rule 3(3) of the Rules, it is the State Government that is responsible to ensure that measures are taken for abatement of noise from vehicular movements and blowing of horns. The rule is as produced underneath:

> "*3. Ambient air quality standards in respect of noise for different areas/zones.*
>
> …
>
> *(3) The State Government shall take measures for abatement of noise including noise emanating from vehicular movements, blowing of horns, bursting of sound emitting fire crackers, use of loud speakers or public address system and sound producing instruments and ensure that the existing noise levels do not exceed the ambient air quality standards specified under these rules.*
>
> …"

Further, under Rule 4(3) of Rules, it is the obligation of the State Pollution Control Boards (hereinafter referred as '**State Board**') to collect the data and devise measures to control the noise pollution. The rule is as underneath:

> *"4. Responsibility as to enforcement of noise pollution control measures.*
>
> *...*
>
> *(3) The respective State Pollution Control Boards or Pollution Control Committees in consultation with the Central Pollution Control Board shall collect, compile and publish technical and statistical data relating to noise pollution and measures devised for its effective prevention, control and abatement."*

In addition, under Rule 4(1) & (2) of the Rules, the Authorities have been made responsible to effect the measures devised by the State Board to ensure that the ambient air quality standards as laid under the Rules are not violated and are duly complied. The rule is as underneath:

> "*4. Responsibility as to enforcement of noise pollution control measures.*
>
> *(1) The noise levels in any area/zone shall not exceed the ambient air quality standards in respect of noise as specified in the Schedule.*
>
> *(2) The authority shall be responsible for the enforcement of noise pollution control measures and the due compliance of the ambient air quality standards in respect of noise.*
>
> *...*"

4.17.2.10. ***The Air (Prevention and Control of Pollution) Act, 1981***

4.17.2.10.1. That the Indian Parliament in furtherance of the need of time and of its duties in protecting and up keeping the health of the citizens of the nation promulgated the *'Air (Prevention and Control of Pollution) Act, 1981'* (*hereinafter*, referred as '**Air Act'**) to provide for the prevention, control and abatement of air pollution, for the establishment, for which State and Central Boards were

sufficiently empowered with a view to carry out the mandate of the United Nations Conference on the Human Environment held in Stockholm in June, 1972, in which India participated, to take appropriate steps for the preservation of the natural resources of the earth which, among other things, include the preservation of the quality of air and control of air pollution.

4.17.2.10.2. That the Parliament in pursuit of greater good and recognising the plight of people termed Noise in the definition of air pollutant in Section 2(a) in 1987 and defined *'air pollution'* as presence of air pollutant in atmosphere, thus, the provisions of the Air Act, became applicable in respect of noise pollution, also. The above legal standing was also recognised and recorded by the Hon'ble Apex Court in ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high-volume producing sound systems,*** *(2005) 5 SCC 733,* in the following words:

> *"109. Noise was included in the definition of air pollutant in Air (Prevention and Control of Pollution) Act in 1987. Thus, the provisions of the Air Act, became applicable in respect of noise pollution, also."*

4.17.3. ***Motor Vehicle Act, 1988***

4.17.3.1. That the Indian Parliament in order to regulate and combat the diverging jurisprudence and practices in different parts of the Country relating to Motor Vehicles, a Concurrent List subject, enacted the '*Motor Vehicle Act, 1988'* (*hereinafter* referred as

'**Motor Act'**) *vide* Act No. 59 of 1988 dated 14.10.1988.

4.17.3.2. That Section 2(28) of the Motor Act lays down the definition of 'motor vehicle' or 'vehicle' in the following words:

> *"2. Definitions.—In this Act, unless context otherwise requires,—*
>
> *(28) "motor vehicle" or "vehicle" means any mechanically propelled vehicle adapted for use upon roads whether the power of propulsion is transmitted thereto from an external or internal source and includes a chassis to which a body has not been attached and a trailer; but does not include a vehicle running upon fixed rails or a vehicle of a special type adapted for use only in a factory or in any other enclosed premises or a vehicle having less than four wheels fitted with engine capacity of not exceeding twenty-five cubic centimetres;"*

4.17.3.3. That Section 190 of the Motor Act proscribes use of vehicle in unsafe condition whereby a culprit is liable under the Motor Act for any defect in the vehicle which is a source of danger to persons and vehicles or, has violated the standards prescribed in relation to road safety, control of noise and air-pollution is liable to pay fine up to Rs. 10,000/- or imprisonment for 6 months along with suspension of license. The Section is worded in the following words:

> *"190. Using vehicle in unsafe condition.—(1) Any person who drives or causes or allows to be driven in any public place a motor vehicle or trailer while the vehicle or trailer has any defect, which such person knows of or could have discovered by the exercise of ordinary care and which is calculated to render the driving of the vehicle a source of danger to persons and vehicles using such place, shall be punishable with fine of one thousand five hundred rupees or, if as a result of such defect an accident is*

caused causing bodily injury or damage to property, with imprisonment for a term which may extend to three months, or with fine of five thousand rupees, or with both and for a subsequent offence shall be punishable with imprisonment for a term which may extend to six months, or with a fine of ten thousand rupees for bodily injury or damage to property.

(2) Any person who drives or causes or allows to be driven, in any public place a motor vehicle, which violates the standards prescribed in relation to road safety, control of noise and air-pollution, shall be punishable for the first offence with imprisonment for a term which may extend to three months, or with fine which may extend to ten thousand rupees or with both and he shall be disqualified for holding licence for a period of three months and for any second or subsequent offence with imprisonment for a term which may extend to six months, or with fine which may extend to ten thousand rupees or with both."

4.17.3.4. That the Indian Parliament on 09.08.2019 enacted the '*Motor Vehicle (Amendment) Act, 2019'* (*hereinafter* referred as **'Amendment Act'**) to fill the loopholes in the parent act i.e., Motor Act.

4.17.3.5. That *vide* the Amendment Act, Section 194F in the Motor Act was inserted which recognized the menace of noise pollution from incessant and unnecessary honking and vehicular movement by the motor vehicles provided the guiding jurisprudence in the following words:

"*194F. Use of horns and silence zones.— Whoever—*

(a) while driving a motor vehicle—

(i) sounds the horn needlessly or continuously or more than necessary to ensure safety, or

(ii) sounds the horn in an area with a traffic sign prohibiting the use of a horn, or

(b) drives a motor vehicle which makes use of a cut-out by which exhaust gases are released other than through the silencer, shall be

punishable with a fine of one thousand rupees and for a second or subsequent offence with a fine of two thousand rupees."

4.17.3.6. ***Motor Vehicle Rules, 1989***

4.17.3.6.1. That the Central Government in exercise of its powers conferred by the Motor Act promulgated the '*Central Motor Vehicle Rules, 1989*' (*hereinafter* referred as '**Motor Rules'**) *vide* G.S.R. 590 (E), dated 02.06.1989.

4.17.3.6.2. That under the Chapter heading '*Reduction of Noise'*, the Central Government in Rule 119 while explaining the purpose and limitations of use of horns and recognizing the resultant pollution from their indiscriminate use elaborated and promulgated as below:

"Reduction of noise

119. Horns.—

(1) On and after expiry of one year from the date of commencement of the Central Motor Vehicles (Amendment) Rules, 1999, every motor vehicle, agricultural tractor, power tiller and construction equipment vehicle manufactured shall be fitted with an electric horn or other devices conforming to the requirements of IS: 1884—1992, specified by the Bureau of Indian Standards for use by the driver of the vehicle and capable of giving audible and sufficient warning of the approach or position of the vehicle:

Provided that on and from 1st January, 2003, the horn installation requirements for motor vehicle shall be as per AIS-014 specifications, as may be amended from time to time, till such time as corresponding Bureau of Indian Standards specifications are notified.

(2) No motor vehicle including agricultural tractor shall be fitted with any multi-toned horn giving a succession of different notes or with any other sound-producing device giving an unduly harsh, shrill, loud or alarming noise.

...

120. Silencers.—

(1) Every motor vehicle including agricultural tractor shall be fitted with a device (hereinafter referred to as a silencer) which by means of an expansion chamber or <u>otherwise reduces as far as practicable, the noise that would otherwise be made by the escape of exhaust gases from the engine</u>.

(2) Noise standards.—Every motor vehicle shall be constructed and maintained so as to conform to <u>noise standards specified in Part E of the Schedule VI to the Environment (Protection) Rules, 1986,</u> when tested as per IS:3028-1998, as amended from time to time:

Provided that on and from the 1st day of April, 2006, where different noise levels are prescribed for vehicles, the lowest limits prescribed for vehicles of such category, shall apply to Battery Operated Vehicles.

...”

4.17.4. ***Indian Penal Code, 1860***

4.17.4.1. That the Indian Penal Code, 1860 (*hereinafter* referred as ‘**Code’**) enforces and protects the rights affecting public health, safety, convenience, decency, and morals of the general public under the Chapter XIV of the Code. The Code penalises Public Nuisance under Section 268 whereby Nuisance is an inconvenience which materially interferes with the ordinary physical comfort of human existence. Public nuisance is an act of doing something that tends to the annoyance of the whole community in general or neglecting to do anything that the common good requires. It is an act or omission affecting the public at large, or some considerable portion of them, and interferes with

rights the members of the community might otherwise enjoy.

4.17.4.2. That Public nuisance is based on the principle embodied in the maxim of civil law i.e., '*sic utere tuo ut rem publicum non laedas'*, which means 'enjoy your property in such a way as not to injure the rights of the public'. The section is reproduced below:

"Chapter XIV- OF OFFENCES AFFECTING THE PUBLIC HEALTH, SAFETY, CONVENIENCE, DECENCY AND MORALS

268. Public nuisance.—

A person is guilty of a public nuisance who does any act or is guilty of an illegal omission which causes any common injury, danger or annoyance to the public or to the people in general who dwell or occupy property in the vicinity, or which must necessarily cause injury, obstruction, danger or annoyance to persons who may have occasion to use any public right.

A common nuisance is not excused on the ground that it causes some convenience or advantage."

4.17.4.3. That the term 'public' is defined in Section 12 of the Code and includes any class of the public or any community in a particular locality even so small, but still large enough to form a 'class' and which excludes the possibility of a mere individual.

4.17.4.4. That any act or omission which causes or results in injury, danger or annoyance to the public or the people in general, who live or occupy property in the vicinity or to anyone who may have the occasion to use a public even though has not necessarily injuriously

affected every member of the public within its range is Public Nuisance.

Thus, any act or illegal omission which is of such a nature that it must necessarily cause injury, danger or annoyance or obstruction to anyone, who may have the occasion to use a public right is Public Nuisance.

4.17.4.5. That Section 279 of the Code deals with the rash and negligent driving of a vehicle or riding on a public way in a rash, negligent manner, and indifferent manner where there is indifference to the consequences which endanger human life or likely to cause hurt or injury to any person. The section is reproduced below:

> ***"279. Rash driving or riding on a public way.—***
>
> *Whoever drives any vehicle, or rides, on any public way in a manner so rash or negligent as to endanger human life, or to be likely to cause hurt or injury to any other person, shall be punished with imprisonment of either description for a term which may extend to six months, or with fine which may extend to one thousand rupees, or with both."*

4.17.4.6. That the sole objective of Chapter XIV of the Code is to protect, promote, foster, and safeguard public health, safety, and convenience by making those acts punishable, which make the environment polluted, thus threatening the life, health, and safety of the people.

In other words, all those acts which endanger public health directly or indirectly are covered under the purview of the Chapter XIV of the Code.

5. IMPORTANT CONCLUSIVE RULINGS

5.1.1. ***Supreme Court***

5.1.1.1. That the Hon'ble Supreme Court in the much-celebrated ruling in, ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high-volume producing sound systems,*** *(2005) 5 SCC 733,* after observing that the menace irritant noise in form of vehicular horns and vehicular noises which apart from adults also cast deleterious effects on foetus as well opined and recorded as follows:

> *"23. ...Noise has both auditory and non- auditory effects depending upon the intensity and the duration of the noise level. It affects sleep, hearing, communication, mental and physical health. It may even lead to the madness of people.*
>
> ...
>
> *25. Noise can disturb our work, rest, sleep, and communication. It can damage our hearing and evoke other psychological, and possibly pathological reactions. However, because of complexity, variability and the interaction of noise with other environmental factors, the adverse health effects of noise do not lend themselves to a straightforward analysis.*
>
> ...
>
> *"44. In the city, the main sources of traffic noise are the motors and exhaust systems of autos, smaller trucks, buses, and motorcycles. This type of noise can be augmented by narrow streets and tall buildings, which produce a "canyon" in which traffic noise reverberates."*

5.1.1.2. In the aforesaid case, the Hon'ble Apex Court has *inter alia* held that Article 21 is not of mere survival and include some aspects which make a person's life meaningful, complete and worth living, thus recorded as below:

> *"9. ...anyone who wishes to live in peace, comfort and quiet within his house has a right to prevent the noise as pollutant reaching him. No one can claim a right to create noise even in his own premises which would travel beyond his precincts and cause nuisance to neighbours or others. Any noise which has the effect of materially interfering with the*

ordinary comforts of life judged by the standard of a reasonable man is nuisance…"

5.1.1.3. That the Hon'ble Supreme Court in the aforesaid decision, has categorically mentioned that noise is a pollutant in the following words:

> *"19. "Pollution" is a noun derived from the verb "pollute". Section 2 of the Environment (Protection) Act, 1986 defines "environmental pollution" to mean the presence in the environment of any environmental pollutant. Section 2 of the said Act defines "environmental pollutant" to mean any solid, liquid or gaseous substance present in such concentration as may be, or tends to be injurious to environment.*
> *20. Thus, the disturbance produced in our environment by the undesirable sound of various kinds is called " noise pollution".."*

5.1.1.4. That the Hon'ble Apex Court in the above- mentioned judgement further recorded that undue noise from vehicular movement and honking is atmospheric pollution in the following words:

> *"22. Noise is a type of atmospheric pollution. It is a shadowy public enemy whose growing menace has increased in the modern age of industrialization and technological advancement…The regular rattling of engines and intermittent blowing of horns emanating from the caravan of automobiles do not allow us to have any respite from irritant noise even in suburban zones."*

Further, the Hon'ble Court directed the States to make provisions for seizure and confiscation of any medium that are found to be creating noise beyond the permissible limits.

5.1.1.5. That the Hon'ble Apex Court further directed that to prevent undue noise from vehicular movement and honking as atmospheric pollution it was necessary to develop mechanism and infrastructure for enforcement of the prevalent laws for which the ground officers entrusted with the task of enforcing laws directed towards controlling noise pollution, must be so trained as

to acquire expertise in the matter of fighting against noise pollution by taking preventive and deterrent measures both. They need to be equipped with the requisite equipment to detect the level of noise pollution when it crosses the permissible limits and the source thereof.

5.1.1.6. That the ruling of Hon'ble Apex Court in ***Supreme Court in Supreme Court Advocates-on-Record Assn. v. Union of India,*** *(1993) 4 SCC 441, at page 602* is apposite to note wherein the Court recorded that:

> *"Under our constitutional scheme, the judiciary has been assigned the onerous task of safeguarding the fundamental rights of our citizens and of upholding the rule of law. Since the Courts are entrusted the duty to uphold the Constitution and the laws, it very often comes in conflict with the State when it tries to enforce its orders by exacting obedience from recalcitrant or indifferent State agencies."*

5.1.1.7. That the Hon'ble Apex Court in ***N. Kannadasan v. Ajoy Khose,*** *(2009) 3 SCC (Civ.) 1, at page 31*, has observed and recorded as thus:

> *"... 48. It is the majesty of the institution that has to be maintained and preserved in the larger interest of the rule of law by which we are governed. It is the obligation of each organ of the State to support this important institution. Judiciary holds a central stage in promoting and strengthening democracy, human rights and the rule of law. People's faith is the very foundation of any judiciary. Injustice anywhere is a threat to justice everywhere and therefore the People's faith in the judiciary cannot be afforded to be eroded."*

5.1.2. ***National Green Tribunal***

5.1.2.1. That the Principal Bench of Hon'ble National Green Tribunal in the matter of *O.A. No. 519/2016,* ***Hardeep Singh vs. SDMC & Ors.,*** *vide* its order dated 01.08.2019 [annexed as **ANNEXURE A-12]** observed that violation of Noise Rules is a criminal offence and is punishable under Section 15 of the

Environment (Protection) Act, 1986 with imprisonment upto five years and fine upto Rs. 1 lakh. However, in the Hon'ble Tribunal's view, civil liability on the fundamental principle of Environmental Law i.e., 'Polluter Pays' principle can be the guiding principle for the enforcement regulatory authority to enforce the Noise Rules as per the scales of compensation to be laid by the Central Board in compliance of the abovementioned order.

5.1.2.2. That Central Board in compliance to the Hon'ble Tribunal's above-mentioned order dated 01.08.2019 titled as, *"Scale of Compensation to be recovered for violation of Noise Pollution (Regulation and Control) Act, 2000"* (hereinafter referred as '**Scales of Compensation**') [annexed as **ANNEXURE A-13]**, whereby the Central Board identified that the restrictions by concerned State Government officials on use of horns and automobiles are necessary to realise the objectives of Noise Rules for which it framed the 'Scales of Compensation' on the principles enumerated below:

> *"3.0 SCALE OF COMPENSATION FOR VIOLATION OF NOISE RULES*
>
> *...*
>
> - *<u>10- 25% of cost of instrument</u> has been considered as compensation for violations of provisions of noise rules and <u>repeated violators to be imposed fine which has deterrent effect</u>*
>
> *..."*

5.1.2.3. That as per recommendations of the Central Board in the abovementioned 'Scales of Compensation', the designated authorities in the respective States must necessarily impose penalties and actions in accordance with the Scales of Compensation.

5.1.2.4. That the Central Board in the Scales of Compensation provided that if the Concerned Authority finds a vehicle which has contravened mandate of Rule 6(ii) of the Noise Rules, 2000 which proscribes blowing of horns in silent zones, the Concerned Authority shall 'seize' the polluting vehicle which will only be released on payment of fine of Rs. 10,000/- and any subsequent violation by the same polluter is liable to attract cancellation of the vehicle's operation permit in addition to the two/ three times the original fine for the second and third violation respectively. The relevant section of 'Scales of Compensation' is being reproduced below:

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
1.	USE OF LOUD SPEAKERS / PUBLIC ADDRESS SYSTEM[1] (Clause 5(1)- 5(2), 6(i, ii, iii and v)[1-5]	₹ 10,000	Seizure

5.1.2.5. That, the special 5-member Principal Bench of Hon'ble National Green Tribunal in the matter of *M.A. No. 284 of 2015*, ***Vardhaman Kaushik vs. Union of India & Ors.,*** *vide* its order dated 20.07.2016 [annexed as **ANNEXURE A-1]**, observed the fact that the existing provisions of the Motor Vehicle Act, 1988 were insufficient to fulfil and secure the mandate as envisioned by the lawmakers through the Noise Rules and that the undue excessive noise from vehicular movement and use of horns is wreaking a great havoc on the welfare of the general masses, thus, warranting sufficient reasons for the Hon'ble Tribunal to step in and prescribe a fine to the tune of Rs. 5,000/- in the form of Environment Compensation, which is to be collected by Traffic

Police and maintained in a separate account with a liberty to traffic authorities to approach the Hon'ble Tribunal in event of default of payment by a defaulter of Environment Compensation.

5.1.3. ***High Courts***

5.1.3.1. That the Hon'ble Delhi High Court in ***Sugan Chand Aggarwal Vs. Govt. of NCT of Delhi and Ors.,*** *AIR 2001 Delhi 455,* in light of numerous scientific studies, made important observations on the impact of noise pollution on the human health and the environment and has rightly propounded two decades back that:

> *"14. Noise not only causes irritation or annoyance but it does also constrict the arteries and increase the flow of adrenaline and forces the heart to work faster, thereby accelerating the rate of cardiac ailments, the reason being that continuous noise causes an increase in the cholesterol level resulting in permanent constriction of blood vessels, making one prone to heart attacks and strokes. The health experts are of the opinion that excessive noise can also lead to neurosis and nervous breakdown. There has been a high incidence of emotional disaster among people living near airports, as revealed by study. For children, noise not only causes hearing problems but also other neurological reactions that make the child irritable and hyperactive, and this has been noted for slowing down the process of development of the mental faculties of children."*

5.1.3.2. That the Hon'ble Calcutta High Court in ***Rabin Mukherjee v. State of West Bengal,*** *AIR 1985 Cal 222* even before the advent of Environment (Protection) Act, 1986 ruled that the use of air horns should be prohibited to prevent noise pollution as the noise pollution is cancerous to human health and is a

form of environment pollution. The Court observed the above mentioned in the following words:

> *"...It is not necessary to go into the question about direct effect of such noise pollution because of indiscriminate and illegal use of such electric and air horn as it is an admitted position that the same is injurious to health and amongst different causes of environmental pollution, sound pollution is one which is of grave concern."*

5.1.3.3. That in ***Moulana Mufti Syed Md. Noorur Rehman Barkati v. State of West Bengal,*** *AIR 1999 Cal 15* the Court lamented on how the policy failures and lack of knowledge and civility have led to unnecessary honking becoming part of Indian culture.

6. **REPORTS, SURVEYS & DATA**

6.1. That, as evident from numerous studies worldwide and as admitted by the Central Board's Survey Report on '*Status of Ambient Noise Level in India 2017*' [annexed as **ANNEXURE A-14]**, noise pollution is created by humans that threatens the health and welfare of human or animal inhabitants for which the most common source is motor vehicles. The relevant extract of the above-mentioned report is being reproduced below:

> *"Noise pollution refers to sounds in the environment that are caused by humans and that threaten the health or welfare of human or animal inhabitants.*
>
> *The most common source of noise pollution by far, the one that affects the most people on the planet is motor vehicles."*

6.2. That the State Board started reporting on the noise levels only in September of year 2017 [annexed as **ANNEXURE A-15]**. The State Board as per its latest survey report titled '*Status of Noise Level in Jaipur City (January to June, 2021)*', (hereinafter

referred as '**Survey**') [annexed as **ANNEXURE A-16]**, the State Board presently is only collecting data of the capital of the State i.e., Jaipur

6.3. That as per the information available on the official website of Central Board [annexed as **ANNEXURE A-17]**, the Central Board had requested all State Boards for providing information on the identified authority for implementation of Noise Rules in their respective state, to which as per the information from the information available with the Central Board, the State of Rajasthan made the concerned Sub Divisional Magistrates (hereinafter referred as '**SDMs**') [annexed as **ANNEXURE A-18]** responsible for their respective sub divisions.

6.4. That as per the official data i.e., *Census- 2011* (hereinafter referred as '**Census**') [annexed as **ANNEXURE A-19]** by the Rajasthan Census Directorate which is headed by Registrar General and Census Commissioner, India who is supervised by the Ministry of Home Affairs, the State had 6,85,48,437 residents with the decadal growth rate of 21.3%. If the growth rate is assumed to be constant a decade later i.e., this year the State in all probability is housing around 8,31,49,254 residents currently.

6.5. That as per the latest '*Statistical Year Book*' i.e., for the year 2019-20 (hereinafter referred as '**Report**'), published by the Transport Department of Rajasthan Government (hereinafter referred as '**Department**'), derivable from the Department's official website [annexed as **ANNEXURE A-20]**.

6.5.1. That the Department in the Report on the internal page no. 'x' [annexed as **ANNEXURE A-20.1]** while elucidating its role in the functioning and welfare of the State points towards its own duties to check the vehicular pollution in the state.

6.5.2. That as per the Department through its own data in the Report on the internal page no. 'xiii' [annexed as **ANNEXURE A-20.2]** admits that there has been an

exponential growth in the registered motor vehicles in the State whereby in March 2011, the State housed only 79,87,355 registered motor vehicles whereas in comparison, in March 2020, the State registered vehicles stood at staggering 1,87,10,774 i.e., a growth rate of 134.25% was witnessed. Table 5.3 of the Report at the internal page no. 73 [annexed as **ANNEXURE A-20.3]** points towards the number of vehicular registrations in each of the categories in the State up to March 2020.

6.5.3. That as per the Report in Table 2.1 on the internal page no. 19 [annexed as **ANNEXURE A-20.4]**, the Vehicular density presently in the capital of the State, presents an alarming figure of 516 vehicles per 1000 persons i.e., a vehicle for every two people.

6.5.4. That as per the Report in Table 1.1 on internal page no. 1 [annexed as **ANNEXURE A- 20.5]** and Table 3.2 on internal page no. 42 [annexed as **ANNEXURE A- 20.6]** of the Report, the Transport Department holds and runs a fleet of 6696 stage carriages and 2543 passenger buses which, hold the permanent permit to run in the State while as per Table 5.1 at internal page no. 71 [annexed as **ANNEXURE A- 20.7]** a total fleet of 122126 buses run in the State.

6.5.5. That as per the Report in Table 1.6 on internal page no. 6 [annexed as **ANNEXURE A-20.8]**, Table 4.2 on internal page no. 54 [annexed as **ANNEXURE A-20.9]**, Table 4.3 on internal page no. 55 & 56 [annexed as **ANNEXURE A-20.10]** and Table 4.4 on internal page no. 57 [annexed as **ANNEXURE A-20.11]** point out to the fact that there has been a steady and exponential growth in the Department's revenue in every subsequent year whereby the total revenue earnings of the Department stood at 4,950.85 Crores in the year of 2019-20.

6.5.6. That as per the Report in Table 4.10 on the internal page no. 66 [annexed as **ANNEXURE A-20.12]**, the State Government and the Department in the year of 2019-20 did not even utilise a rupee towards Environment and Protection out of its total expenditure of Rs. 51935.82 Lacs, even though it collected a staggering amount of Rs. 21847.13 Lacs as Green Tax as per Table 4.11 on the internal page no. 67 & 68 of the Report [annexed as **ANNEXURE A-20.13]** from general masses of the State in the year of 2019-20; an amount of Rs. 40523.86 Lacs. from its flying squads in the year 2019-20 as per Table 8.1 on internal page no. 101 [annexed as **ANNEXURE A-20.14]**, Table 8.2 on internal page no. 102 & 103 [annexed as **ANNEXURE A-20.15]**; Rs. 7587.40 Lacs. from the Composite Checking of Vehicles as per Table 8.4 on internal page no. 114 [annexed as **ANNEXURE A-20.16]**, Table 8.5 on internal page no. 115 [annexed as **ANNEXURE A-20.17]** and Table 8.6 on internal page no. 116 & 117 [annexed as **ANNEXURE A-20.18]**.

6.6. That as per the Indian Medical Association's (hereinafter referred as '**I.M.A.')** discourse available in public domain through its official website [annexed as **ANNEXURE A- 21]** noise exposure can cause two kinds of health effects, non-auditory and auditory. As per I.M.A. the Non-auditory effects include stress-related physiological and behavioural effects such as nausea, damage to brain, increased breathing rate, high blood pressure, swelling in bones and joints, depression, anxiety, and paranoia whereas Auditory effects include hearing impairment resulting from excessive noise exposure and tinnitus.

6.7. That, as evident from numerous studies worldwide and as admitted by the Government agencies from time-to-time noise pollution is created by humans that threatens the health and welfare of human

or animal inhabitants for which the most common source is motor vehicles.

6.8. That the noise exposure can cause two kinds of health effects i.e., non-auditory and auditory which include but are not limited to stress-related physiological and behavioural effects such as nausea, damage to brain, increased breathing rate, high blood pressure, swelling in bones and joints, depression, anxiety, and paranoia whereas Auditory effects include hearing impairment resulting from excessive noise exposure and tinnitus.

6.9. That the responsible and accountable Respondent Authorities have sufficiently failed in disposal of their lawful duties and upholding the oaths by which they hold their offices and have failed to take any necessary actions in consonance with the statutes and applicable rulings of Hon'ble Apex Court and this Court.

6.10. That the State Authorities have failed to provide any suitable cause for the inordinate delay and lackadaisical approach over the issue in concern.

6.11. That in view of the aforesaid facts and conditions, the applicant is filing the present application on following grounds amongst other grounds which the Applicant may take at the time of hearing after craving leave of this Hon'ble Tribunal:

7. **<u>GROUNDS</u>:**

7.1. Because the unchecked noise pollution levels and the resultant deleterious effects concern the upkeep, welfare, and protection of right to life of around nine crore citizens dwelling in the State of Rajasthan, thus impairing their right to life, health, and wellbeing at the hands of the State of Rajasthan/ Respondent No. 1.

7.2. Because as per the recent newspaper reports, over 70% of the noise pollution in the capital of the State, Jaipur, is being caused by a single source i.e., vehicular noise pollution. Further, as per the report, the intensity of vehicular horns in some cases is well

above 100 decibels which is much more in comparison to the safety standards of 55 decibels in Residential areas as prescribed by law thus, aggravating and worsening the situation in the face of rising vehicular and population numbers.

7.3. Because, the Statement and Object of the Noise Pollution (Control and Regulation) Rules, 2000 and the Hon'ble Supreme Court in ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high-volume producing sound systems,*** *(2005) 5 SCC 733* along with numerous judgements of High Courts and this Tribunal after observing that the menace of irritant noise from vehicular horns and movement have observed that noise pollution casts deleterious effects and that Noise Pollution has both auditory and non-auditory effects which affects sleep, hearing, communication, mental, physical health including damaged hearing and pathological reactions which is exacerbated by the "canyon effect" in cities whereby the traffic noise reverberates.

7.4. ***Violation of Right to Life*:**

Because the Hon'ble Apex Court in ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high volume producing sound systems,*** *(005) 5 SCC 733,* has already held that Article 21 is not of mere survival and include some aspects which make a person's life meaningful, complete and worth living with all permissible pleasures. Further, the Hon'ble Apex Court in the above judgement has specifically ruled that no one can claim a right to create noise even in their own premises which would travel beyond his precincts and cause nuisance to neighbours or others and stop them to materially realising the ordinary comforts of life as, any noise which has the effect of materially interfering with the ordinary comforts of life judged by the standard of a reasonable man is nuisance.

Thus, noise pollution created as a result of the vehicular honking and movement travel beyond serving their purpose and utility and henceforth cause unbearable nuisance to neighbours or others and stop them to materially realising the ordinary comforts of their day-to-day life. Henceforth casting a basic constitutional duty on the State to protect the denizens of the State from exposure to state sponsored, tolerated, excused, and ignored noise pollution to avoid violation of the Article 21.

7.5. ***Noise is Atmospheric Pollution***

Because, the Hon'ble Apex Court in ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high volume producing sound systems,*** *(005) 5 SCC 733,* has already held that undue noise from vehicular movement and honking is atmospheric pollution thus, the provisions of the Air Act also became applicable in respect of noise pollution.

7.6. ***Violation of Statutory principles:***

7.6.1. Because, no person in any operation or process should emit or be permitted to emit any environmental pollutant in excess or such standards as prescribed, in any form which tend to be injurious to any inter-relationship which exists among and between water, air and land, and human beings, other living creatures and such violator under Section 7 of the Environment Protection Act, 1986 is liable for imprisonment of up to 5 years and fine of up to Rs. 1,00,000.

7.6.2. Because, as per Rule 3(2) State Pollution Control Board may provide for more stringent standards as those already made by the Central Government by the force of the Act or the Protection Rules, thus Central Act, Rules and notifications should be followed strictly and thus punishment provide under them are the minimum standards that the State Government has to follow, above and over which it can bring out more stringent punishments or rules. Thus, mandating the State Governments to follow existing Central Acts and Rules.

7.6.3. Because, any operation or process is illegal if release of any environment pollutant is in excess to the standards prescribed i.e., *Ambient Air Quality Standards in Respect of Noise*' whereby any use of Vehicular horns in the Silence Zones was strictly banned. Thus, any violation of the above-mentioned standards violates the mandate of the Indian Parliament which on the ground level is rampant and unchecked as even the State run buses are using air and pressure horns.

Thus, as by the mandate of Rule 4(1) & (2) of the Noise Pollution (Regulation and Control) Rules, 2000, SDMs in case of State of Rajasthan have failed to ensure that the ambient air quality standards as laid under the Rules are not violated and are duly complied.

7.6.4. Because, there is nothing on record that can place confidence in the Respondent Authorities for the compliance of the 'Noise Limits for Vehicles applicable at Manufacturing Stage' or to show that in accordance to the Rule 119 of Motor Vehicle Rules every motor vehicle is being fitted with an electric horn or other devices conforming to the requirements of IS: 1884—1992.

7.6.5. Because, the State Government has failed to penalise the violators who have violated the mandate of Rule 120 of Motor Vehicle Rules which mandates that every motor vehicle shall be fitted with Silencers which shall reduce the exhaust noise as far as possible.

7.6.6. Because, incessant and unnecessary noise pollution from vehicles is an inconvenience, which materially interferes with the ordinary physical comfort of human existence that tends to the annoyance of the whole community in general or neglecting to do anything that the common good requires.

7.6.7. Because, incessant and unnecessary noise pollution from vehicles is rash and negligent use of a vehicle wherein the

violator is indifferent to the consequences which endanger human life or likely to cause hurt or injury to any person.

7.6.8. Because, as per Motor Vehicle Act any defect in the vehicle which is a source of danger to persons and vehicles or, has violated the standards prescribed in relation to road safety, control of noise and air-pollution is liable to pay fine up to Rs. 10,000/- or imprisonment for 6 months along with suspension of license. Further, Section 194F in the Motor Act was inserted which provides for a fine of one thousand rupees and for a second or subsequent offence with a fine of two thousand rupees, in case of noise pollution from incessant and unnecessary honking and vehicular movement by the motor vehicles.

However, the State government instead of complying with the Central laws has rather brought about new penalties and punishments, which destroy the essence of the Central laws.

7.6.9. Under Noise Pollution (Regulation and Control) Rules, 2000, Rule 3(3), State Government is responsible to ensure that measures abatement and prevention measures are taken whereas under Rule 4(3) State Board has to collect the data and devise measures to control the noise pollution which has not been complied with as per the State Board latest survey report titled '*Status of Noise Level in Jaipur City (January to June, 2021)*'.

7.6.9.1. Because, the Authorities concerned failed to ensure the ambient air quality standards even when in the targeted period of the Survey, state-wide COVID- 19 lockdown was in effect and there were no ongoing commercial activities of any nature in the state and stringent conditions on activities of personal nature.

7.6.9.2. Because, the State Board even in the namesake compliance of the Rules mentioned hereinabove, started reporting on the noise levels only in September of year

2017 and as evident from its own latest Survey Report, State Board presently is only collecting data of the capital at 6 places only in Capital of the State i.e., Jaipur has been clearly done to bare minimum whereby only noise levels of only 6 places have been measured that too on a random and baseless namesake basis.

7.6.9.3. Because, the State Board has failed to even take cognizance of the above mentioned glaring realities to suggest some solutions or measures that can be put into effect to save the coming generations from this impending public health crisis and rather is celebrating the decreasing trend in concentration of noise level during the period from March to April, 2021 when the levels were bound to decrease on the account of state-wide COVID- 19 lockdown whereby there was a complete restriction on any type of commercial activity and stringent conditions on activities of personal nature.

7.6.9.4. Because, it is the obligation of the State Board to collect the data regarding noise pollution and suggest a comprehensive plan for prevention, control, and abatement of noise pollution to secure the very mandate and purpose of the Rules. The State Board has failed utterly in fulfilling its abovementioned statutory and fiduciary duties which become evident if the comparison is drawn between the State Survey of January to June 2021 [and Central Board's Survey Report on '*Status of Ambient Noise Level in India 2017*' wherein through the collected data regarding noise pollution, a comprehensive plan for prevention, control and abatement of noise pollution has been sufficiently provided.

7.6.9.5. Because, the Survey Reports prepared by the State Boards are incomplete and not up to the optimum or desirable standards that are warranted as per the letter and spirit of

the Rules or from a highly professional body endowed with public responsibilities and the taxpayer's money. That a specially created body being run with highly skilled members and experienced members has even failed to provide complete data in respect to year 2020 or 2021.

7.6.10. Because, the issue of noise pollution from the sources including but not limited to vehicular movement and honking are being overlooked and rather there are concerted efforts by all the concerned State machineries to present a merrier picture on the baseless or non-existent grounds to avoid fulfilling their oaths towards their offices and to the people of the State. The glaring effects of the noise pollution are being not taken seriously by the Respondent Authorities and have cheated the people of the state by not presenting the true picture of the predicament in concern.

7.6.11. Because, under Rule 4(1) & (2) of the Noise Rules, the '*Authorities'* designated by the State Government i.e., respective SDMs' in State of Rajasthan have clearly failed in disposal of their duties to effect the measures devised by the State Board to ensure that the ambient air quality standards as laid under the Rules are not violated and are duly complied.

Thus, even if for the namesake compliance under the Rules only the implementation of the Rules is reviewed in the Capital of the State is to be considered then there are number of State officials who have failed in their lawful duties over the years and have breached their oath and promise to the office and people they serve. The utter disregard has been shown to a beneficial provision which seeks to provide long-term solutions towards such a pressing problem which if not eradicated or addressed can take a momentous toll on the general public.

7.7. ***Violation of Court Directives:***

7.7.1. Because, the Hon'ble Apex Court in ***In Re: Noise Pollution - Implementation of the Laws for restricting use of loudspeakers and high volume producing sound systems,*** *(2005) 5 SCC 733,* has already held that undue noise from vehicular movement and honking is atmospheric pollution and the States should make provisions for seizure and confiscation of any medium that are found to be creating noise beyond the permissible limits.

7.7.2. Because, guided by the duties laid in Statutes and principles as enumerated in the above-mentioned judgements, the Principal Bench of Hon'ble National Green Tribunal in ***Hardeep Singh vs. SDMC & Ors.,*** vide its order dated 01/08/2019 observed that violation of Noise Rules is a criminal offence and is punishable under Section 15 of the Environment (Protection) Act, 1986 with imprisonment upto five years and fine upto Rs. 1 lakh. however, in Hon'ble Tribunal's view, civil liability on the fundamental principle of Environmental Law i.e., 'Polluter Pays' principle should be applied to enforce the Noise Rules as per the scales of compensation to be laid by the Central Board in compliance of the abovementioned order.

7.7.3. Because, the Central Board in the Scales of Compensation provided that if the Concerned Authority finds a vehicle which has contravened mandate of Rule 6(ii) of the Noise Rules, 2000 which proscribes blowing of horns in silence zones, the Concerned Authority shall 'seize' the polluting vehicle which will only be released on payment of fine of Rs. 10,000/- and any subsequent violation by the same polluter is liable to attract cancellation of the vehicle's operation permit in addition to the two/ three times the original fine for the second and third violation respectively.

However, the Central Board in prescribing the 'Scales of Compensation' acted in very limited scope and has only provided for incessant, illegal, unnecessary and in contravention to Rule 6(ii) of the Noise Rules i.e., vehicular honking in the silence zones

and has failed to provide for the other pressing sources of noise pollution from vehicular movement and excessive and disproportionate use of vehicular horns.

7.7.4. Because, the special 5-member Principal Bench of Hon'ble National Green Tribunal in the matter of ***Vardhaman Kaushik vs. Union of India & Ors.*** OA No. 21/2014**,** *vide* its order dated 20/07/2016, admitted the fact that the existing provisions of the Motor Vehicle Act, 1988 were insufficient to fulfil and secure the mandate as envisioned by the lawmakers through the Noise Rules and that the undue excessive noise from vehicular movement and use of horns is wreaking a great havoc on the welfare of the general masses, thus, warranting sufficient reasons for the Hon'ble Tribunal to step in and prescribe a fine to the tune of Rs. 5,000/- in the form of Environment Compensation, which is to be collected by Traffic Police and maintained in a separate account with a liberty to traffic authorities to approach the Hon'ble Tribunal in event of default of payment by a defaulter of Environment Compensation.

7.7.5. Because, no person in any operation or process should emit or be permitted to emit any environmental pollutant in excess or such standards as prescribed, in any form, which tend to be injurious to any inter-relationship which exists among and between water, air and land, and human beings, other living creatures.

8. **LIMITATION:**

The present Application is being filed against the continuous failure of Respondents in disposal of their lawful duties and obligation towards people of Rajasthan by not ensuring the compliance of Noise Pollution (Regulation and Control) Rules, 2000, and the subsequent judgments of Hon'ble Apex Court and this Tribunal hence, the cause being a continuous cause, this application is within the period of limitation.

9. **PRAYER:**

Wherefore in view of aforesaid facts and circumstances, it is most humbly submitted before this Hon'ble Tribunal, that it may be pleased to:

i. Declare that the manufacturing, sale and/ or use of air/ pressure horns in any state/ public buses and any other private vehicle, save the just exceptions as provided under the law, would be in grave violation of Environment (Protection) Rules, 1986, Noise Pollution (Regulation and Control) Rules, 2000, Motor Vehicle Act, 1988 and Motor Vehicle Rules, 1989; and

ii. Direct that the Respondent No. 1/ State of Rajasthan shall place a compliance report of enforcement of the ban on air/ pressure horns being used by public or private vehicles plying within the State; and

iii. Direct that an Environment Compensation of Rs. 5,000/- in addition to the existing penalties/ fines shall be imposed on polluters for every act of noise pollution, on the basis of 'Polluter Pays Principle', in terms with the directions given by the Hon'ble Delhi NGT in the '*Vardhaman Kaushik vs. Union of India'* in OA No. 21/2014; and

iv. Direct that fine/ amount collected from imposition of above-mentioned Environment Compensation be collected and be deposited in a special environment account that would be maintained by the Rajasthan Police or the State of Rajasthan (Respondent No. 1) as the Chief Secretary of Rajasthan may decide; and

v. Direct that the responsible Respondent Authorities shall utilize the funds of the above-mentioned separate account in fulfilling and enforcing the goal and spirit of Noise Pollution (Regulation and Control) Rules, 2000 and other Noise pollution related applicable laws in the State of Rajasthan; and

vi. Direct that the Respondent Authorities shall comply with the directions of the Central Pollution Control Board titled as, *"Scale of Compensation to be recovered for violation of Noise Pollution (Regulation and Control) Act, 2000*" framed in compliance of the order dated 01.08.2019 passed by the Principal Bench of Hon'ble National Green Tribunal, in the matter of ***Hardeep Singh vs. SDMC & Ors*.** O.A. No. 519/2016; and

vii. Pass any other appropriate order or direction which this Hon'ble Tribunal may deem just and proper in the facts and circumstances.

All of which is most respectfully and humbly submitted.

APPLICANT

Through

TARUN AGARWAL & **BHASKAR AGARWAL**
Counsels for Applicant
Plot No. 4, Pratap Nagar Colony,
Near Kamal & Company, Tonk Road, Jaipur, Rajasthan
Mob: 8802378849 & 8619328175
E-mail: advocate.bhaskaragarwal@gmail.com
adv.agarwaltarun@gmail.com

Place: Jaipur

Dated: 14.10.2021

VERIFICATION:

I, Deepak Saxena S/o Late Sh. JBL Saxena, aged about 57 years, authorised representative of the Applicant do hereby solemnly affirm

and verify that the contents of paras. 1 to 8 are true and correct as per the official records of the Applicant and legal advice. Nothing material has been concealed.

Verified at Jaipur on this 14th day of October 2021.

CONSUMER UNITY & TRUST SOCIETY
CUTS International
JAIPUR, INDIA

DEPONENT

BEFORE THE NATIONAL GREEN TRIBUNAL, CENTRAL ZONE BENCH, SITTING AT BHOPAL

APPLICATION NO _____ OF 2021

Between

Consumer Unity & Trust Society (CUTS), Jaipur ...Applicant

-And-

State of Rajasthan & Ors. ...Respondents

AFFIDAVIT

I, Deepak Saxena S/o Late Sh. JBL Saxena, aged about 57 years, working as Assistant Director, CUTS Jaipur, having office address at CUTS, D-217, Bhaskar Marg, Bani Park, Jaipur - 302016 do hereby solemnly affirm and state as under:

1. That I am the authorised representative of the Applicant in the above captioned case and am well conversant with the facts of the present case.

2. That I have read and understood the contents of the accompanying Application and state that the facts stated therein are true to my knowledge and belief or are based on the official records of the Applicant and nothing material has been concealed therefrom.

NOTARY Reg.No. 1054 A. M. SHARMA Advocate JAIPUR (Raj.) भारत सरकार GOVT. OF INDIA

DEPONENT

CONSUMER UNITY & TRUST SOCIETY CUTS International JAIPUR, INDIA

VERIFICATION

I, the above-named deponent do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge and belief, and nothing material has been concealed therein and no part of it is false.

Tarun Jaiswal (Advocate) (Identified the Deponent)

Verified at Jaipur on this 11th day of October, 2021

DEPONENT

ATTESTED 12 OCT 2021 NOTARY PUBLIC JAIPUR (Raj.)

CONSUMER UNITY & TRUST SOCIETY CUTS International JAIPUR, INDIA

VAKALATNAMA

BEFORE THE NATIONAL GREEN TRIBUNAL,
CENTRAL ZONE BENCH, SITTING AT BHOPAL
APPLICATION NO_____OF 2021

IN THE MATTER OF:

Consumer Unity and Trust Society (CUTS), Jaipur **...Applicant**

Versus

State of Rajasthan & Ors. **...Respondents**

KNOWN ALL to whom these presents shall come that I, Deepak Saxena S/o Late Sh. JBL Saxena, aged about 57 years, having office address at CUTS, D-217, Bhaskar Marg, Bani Park, Jaipur – 302016, am the authorised representative of the Applicant in the captioned matter, and I do hereby appoint:

MR. TARUN AGARWAL & Mr. BHASKAR AGARWAL (ADVOCATES)

hereinafter called Advocates to be my / our advocates in the above noted case and authorized them.

To act appear and plead in the above noted case in the court or in any court in which the same may be tried or heard and also in the appellate courts including High Court.

To sign, verify and present pleadings application, appeals, cross objections or petitions for execution, review, restoration, withdrawal, compromise or other petitions, replies, objections or affidavits or documents as may be deemed necessary or proper for the prosecution of the said case in all its stages.

To file and take back documents.

To withdraw or compromise the said case or submit to arbitration any difference of disputes that may arise touching or in any manner relating to the said case.

To take out execution proceedings.

To deposit, draw and receive moneys, cheques and grant receipts there and to all other acts and things which may be necessary to be done for the progress and in the course of prosecution of that said case.

To appoint and instruct other legal practitioners authorizing him to exercise the power and authorize hereby confer upon the advocate whenever he may think fit to do so and sign the power of attorney on our behalf.

And I/ We undersigned do hereby agree ratify and confirm acts done by the advocates or his substitute in the matter is my/ our acts as if done by me/us to all intents and purposes.

And I/ We undersigned do hereby agree that in the event of any part of the fees agreed by me/ us to be paid to the Advocate remaining unpaid, he shall be entitled to withdraw from the prosecution and would be entitled to the same.

IN THE WITNESS WHEREOF I/ We do hereby up to put my/ our hand to these presents the contents to which have been understood by me / us on the 11th day of October, 2021.

Accepted

Deepak Saxena

MR. TARUN AGARWAL [D/5611/2018] and **BHASKAR AGARWAL** [R/3849/2021]
M: (+91) 8802378849;
E: adv.agarwaltarun@gmail.com

(Identified by)

CONSUMER UNITY & TRUST SOCIETY
CUTS International
JAIPUR, INDIA

J ADVOCATES WELFARE FUND STAMP 25 Rs 0820285

5 रु. कोर्ट फी COURT FEE Rs. 5 भारत INDIA पाँच रुपये FIVE RUPEES

CUTS International
Value For People

CONSUMER UNITY & TRUST SOCIETY
A registered, recognised, non-partisan, non-profit and non-government organisation pursuing social justice and economic equity within and across borders.

Resolution No.: 2021-22/03

Extract of the minutes of the Executive Committee Meeting of Consumer Unity & Trust Society (CUTS), held at Jaipur on October 11, 2021

The following resolution was passed:

Mr Deepak Saxena, Assistant Director, CUTS International to represent/defend the organisation in all the legal and regulatory proceedings in the petition to be filed in National Green Tribunal (NGT) and in this respect, take all necessary steps and do all others acts, things and deeds and sign vakalatnama as may be required from time to time for effectively pursuing/ supplement the above said matters in the best interest of the organisation.

Place: Jaipur
Date: October 11, 2021

CONSUMER UNITY & TRUST SOCIETY
CUTS International
JAIPUR, INDIA

Ajit Singh
Secretary

D-217, Bhaskar Marg, Bani Park, Jaipur 302 016, India ◆ Ph: +91(0)141-228 2821 ◆ Fx: 228 2485 ◆ Email: cuts@cuts.org ◆ Website: www.cuts-international.org
Also at Kolkata, Chittorgarh and New Delhi (India); Lusaka (Zambia); Nairobi (Kenya); Accra (Ghana); Hanoi (Vietnam); Geneva (Switzerland); and Washington DC (USA).

BEFORE THE NATIONAL GREEN TRIBUNAL

CENTRAL ZONE BENCH

ORIGINAL APPLICATION NO. _____OF 2021

IN THE MATTER OF:

Consumer Unity & Trust Society (CUTS), Jaipur ...Applicant

Versus

State of Rajasthan & Others ...Respondents

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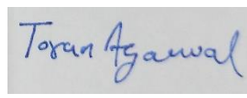
APPLICANT

Through



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Place: Jaipur

Dated: 14.10.2021

BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI

M.A. No. 284 of 2015
In
Original Application No. 21/2014
And
Original Application No. 21/2014
(M.A. NO. 414/2015, M.A. NO. 778/2015, M.A. NO. 1086/2015, M.A. NO. 1313/2015, M.A. NO. 156/2016, M.A. NO. 172/2016, M.A. NO. 211/2016, M.A. NO. 253/2016, M.A. NO. 268/2016, M.A. NO. 358/2016, M.A. NO. 360/2016, M.A. NO. 406/2016, M.A. NO. 475/2016, M.A. NO. 476/2016, M.A. NO. 521/2016, M.A. NO. 523/2016, M.A. NO. 545/2016, M.A. NO. 564/2016, M.A. NO. 567/2016, M.A. NO. 578/2016, M.A. NO. 690/2016 & M.A. NO. 708/2016)
And
Original Application No. 95/2014
And
Original Application No. 303/2015

IN THE MATTER OF :

Vardhaman Kaushik Vs. Union of India & Ors.
And
Vardhaman Kaushik Vs. Union of India & Ors.
And
Sanjay Kulshrestha Vs. Union of India & Ors.
And
Supreme Court Women Lawyers Association Vs. Union of India & Ors.

CORAM : HON'BLE MR. JUSTICE SWATANTER KUMAR, CHAIRPERSON
HON'BLE MR. JUSTICE M.S. NAMBIAR, JUDICIAL MEMBER
HON'BLE MR. JUSTICE RAGHUVENDRA S. RATHORE, JUDICIAL MEMBER
HON'BLE PROF. A.R. YOUSUF, EXPERT MEMBER
HON'BLE MR. BIKRAM SINGH SAJWAN, EXPERT MEMBER

Present:

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Dr. Sanjay Kulshrestha, Applicant in person

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Ms. Puja Kalra, Adv. for NDMC, SDMC

GNCTD	**Mr. Pragyan Sharma and Mr. Ravi Kantt, Advs. for State of Mizoram** **Mr. Jayesh Gaurav, Adv. for JSPCB** **Mr. Sapam Biswajit Meitei and Mr. S. Vijayanand, Advs. for State of Manipur** **Ms. Aruna Mathur, Ms. Anuradha Arputham and Mr. Avneesh Arputham, Advs.** **Mr. Abhishek Yadav, Adv. for State of U.P.** **Mr. Suryanarayan Singh, AAG** **Mr. Narnedner Pal Singh, Adv. Ms. Guneet Khehar, Adv. for Mr. Tarunvir Singh Khehar, Adv. for GNCTD** **Mr. Jogy Scaria, Adv. for State of Kerala and SPCB** **Mr. Raj Kumar, Adv. Ms. Alpana Poddar, Adv. and Mr. Bhupinder Kr. LA., CPCB** **Mr. Mukesh Verma, Adv.for MPCB** **Ms. Priyanka Swami, Adv. for Nagar Nigam Ghaziabad Mr. Arun K. Gupta, LO** **Mr. P. Venkat Reddy and Mr. Prashant Kr. Tyani, Advs. for State of Telengana** **Mr. Dileep Poolakkot, Adv. for State of Goa** **Mr. Vibhav Misra and Mr. Saumya Misra, Advs. for DTC** **Mr. Ravindra Kr. And Mr. Gudipati G. Kashyap, Advs. for NOIDA and Greater NOIDA** **Mr. Jayesh Gaurav, Adv. for JSPCB** **Ms. Priyanka Sinha and Mr. Shridhar Sawrup, Advs. for State of Jharkhand** **Ms. Varsha Poddar advs. for State of Tripura** **Ms Nandini Gore and Ms. Khushboo Bari and Mr. Bipin Das, Advs. for Tata Motors Ltd.M. A. No. 172 of 2016** **Mr. Anil Grover AAG and Mr. Rahul Khurana, Adv. for State of Haryana** **Mr. Narender Pal Singh, Adv. and Mr. Dinesh Jindel, LO, DPCC** **Mr. Sandeep Narain and Ms. Khushboo, Advs.** **Ms. Diksha Sharma, Adv. for Mr. Muzzaffr Khand s/o Ayyab Khan** **Mr. Shiv MangaL Sharma, AAG, Mr. Adhiraj Singh and Mr. Sarurabh Rajpal, Advs. for Rajasthan PCB** **Mr. R. Rakesh Sharma and Mr. M. Samy Adv. for State of Tamil Nadu and TNPCB** **Mr. Gaurav Kr. Bansal and Ms. Antima Bazaz, Advs. In MA 264/2016** **Mr. Dinesh Garg and Mr. Dhananjay Garg, Advs. For State of Uttarakhand** **Mr. K.T.S. Tulsi, Mr. Raj Kamal and Ms. Pallavi Malhotra, Advs.** **Mr. V.K. Shukla, Adv.** **Mr. Ashish Negi and Ms. Richa Kapoor, Advs.** **Mr. Karan Grover, Adv. for NHAI** **Ms. Taruna A. Prasad, Adv. for MoEF** **Mrs. Rani chhbra and Ms. Priyanka Samy, Advs. In MA 358/2016 and 545/2016**

	Date and Remarks	Orders of the Tribunal
	Item Nos. 06 to 09 **July 20, 2016** **HA** **+** **A**	**<u>MAIN MATTERS</u>** In continuation of our order dated 18th July, 2016 we pass the following further directions for appropriate and effective implementation of the directions issued. 1. We make it clear that deregistration of the diesel vehicles, more than 10 years old shall be complied

	Item Nos. 06 to 09 **July 20, 2016**	with effectively and without default. However, the deregistration authorities are directed to start deregistration with reference to the oldest of the vehicles, in other words at the first step the vehicles which are more than 15 years old would be deregistered and then gradually other vehicles would be deregistered from 15 years to 10 years respectively. 2. All the vehicles which are deregistered in Delhi/NCR would not be permitted to ply in Delhi/NCR. However, the authorities will issue NOC for such vehicles to be registered outside the Delhi/NCR. We further clarify that in terms of the orders of the Tribunal every State has to identify areas where the dispersion of the air is higher and vehicular density is least, if the States have not done it so far we grant last opportunity to the States and the Union Territories to identify such areas and put them on the respective websites. The RTO, Delhi will issue NOC for transfer of these vehicles only for such areas which are identified by the States. 3. The diesel vehicles which are more than 15 years old and are BS I or BS II compliant shall be scraped and no NOC will be issued for transfer of the vehicles. 4. The vehicles which possess national permit, but are covered under the directions of the Tribunal will also not be permitted to ply in Delhi/NCR. However, they would be permitted to by-pass Delhi and follow the routes directly connecting Haryana and Rajasthan or vice-versa. For instance the heavy

	Item Nos. 06 to 09 **July 20, 2016**	vehicles are being permitted under the orders of the Tribunal from Panipat and Rewari without entering Delhi. 5. We hereby direct NCT/Delhi to take immediate steps for improving and expanding the mass transportation system. It should introduce proper buses which should preferably be run from destination to destination thus making the travel much easier for the commuters. The buses should be of different kinds, including providing buses to the metro stations. All these buses should be CNG buses or hybrid or electric buses. 6. The DDA is hereby directed to provide space to the DTC and the Police for the purpose of parking of Vehicles, including impounded vehicles. We direct the Chief Secretary, Delhi to take up a meeting with the Commissioner of the Delhi, Vice-Chairmen of the DDA and all the Commissioners of the respective Municipal Corporations, NDMC and Delhi Cantonment Board. Meeting will be held within 1 week from today and the report be submitted to the Tribunal. This would identify the land already given by DDA to the authorities for the purpose of parking to DTC or other authorities for parking of running buses as well as impounded vehicles, it would further identify the sites which are required to be provided for that purpose. The scraping benefit including benefit in purchase of new cars, is under the consideration of the Ministry of Heavy Industries. Let the final view in that behalf be taken

	Item Nos. 06 to 09 **July 20, 2016**	and the same should be widely published to provide new incentives to the public to scrap their old vehicles. It has been termed by the Ministry as "Scraping Policy". Learned counsel appearing for the NCT/Delhi has brought to our notice that to orders is needed effectively implement the directions of the Tribunal in relation to the use of pressure horns and motor bikes being driven with intolerable sound which are violative of the prescribed norms. Besides challaning the vehicles under the Motor Vehicles Act, action is also to be taken for violation of the conditions of the registration that is violating the original conditions of the vehicle in which it was registered and the fine provided there is more than Rs. 2000, besides challaning the vehicles for traffic offence. We find that the traffic police should implement the directions and take the above action which is in accordance with law, with a greater vigour and sincerity. We further direct that for generating the undue intolerable sound, in violation of the law, also results in noise pollution and is covered under the prescribed norms in the Noise Pollution Rules which have been enacted under the Environment (Protection) Act, 1986, one of the Scheduled Act of the National Green Tribunal Act, 2010. Therefore we direct that in addition to other actions in accordance with law, such offenders would also be liable to pay Environmental Compensation of Rs. 5,000 per violation on the basis of "Polluter Pays Principle". Let this fine be also collected by the Traffic police and be deposited in a separate account that would be maintained by the Delhi Police or the NCT Delhi as the Chief Secretary of Delhi may decide. In the event of default of the payment of the Environmental

	Item Nos. 06 to 09 **July 20, 2016**	Compensation, the traffic authority is at liberty to approach the Tribunal by issuing notice to such violator to be present before the Tribunal for the offence. List these matters for hearing on 28th July, 2016. In the meanwhile, liberty is granted to the States to file their response. **M.A. No. 414 of 2015** In view of the order passed by us above this Application does not survive for consideration. Accordingly, M.A. No. 414 of 2015 stands disposed of without any order as to costs. **M.A. No. 778 of 2015** Nobody is present on behalf of the Applicant non was present on the previous date. This Application is dismissed for default of appearance. Accordingly, M.A. No. 778 of 2015 stands disposed of without any order as to costs. **M.A. No. 1086 of 2015** Nobody is present on behalf of the Applicant non was present on the previous date. This Application is dismissed for default of appearance. Accordingly, M.A. No. 1086 of 2015 stands disposed of without any order as to costs. **M.A. No. 1313 of 2016** In view of the order passed by us above this

	Item Nos. 06 to 09 **July 20, 2016**	Application does not survive for consideration. Accordingly, M.A. No. 1313 of 2016 stands disposed of without any order as to costs. **M.A. No. 156 of 2016** This is an application with reference to the exemption to be granted to vintage and antique vehicles from the orders of the Tribunal dated 26th November, 2014. Learned counsel appearing for the main Applicant and NCT of Delhi submit that they have some objections in regard thereto. List this matter for hearing on 28th July, 2016. **M.A. No. 172 of 2016** At the request of the Learned counsel appearing for the parties the matter is adjourned to 28th July, 2016. **M.A. No. 211 of 2016** Nobody is present on behalf of the Applicant; none was present on the previous date. This Application is dismissed for default of appearance. Accordingly, M.A. No. 211 of 2016 stands disposed of without any order as to costs. **M.A. No. 253 of 2016** We have heard the Learned counsel appearing for the parties. The Application is allowed limited to the extent that vehicles would be permitted to be registered with the RTO office of Delhi but these buses would not run in NCT of

	Item Nos. 06 to 09 **July 20, 2016**	Delhi but would ply between its destination point to Kathmandu. To that extent this Application is allowed subject to just exception. Accordingly, M.A. No. 253 of 2016 stands disposed of without any order as to costs. **M.A. No. 268 of 2016** This Application is filed for postponement of the date of hearing of the matter. The matter is already heard. Therefore this Application does not survive for consideration as having become infructuous. Accordingly, M.A. No. 268 of 2016 stands disposed of without any order as to costs. **M.A. Nos. 358 of 2016 and 545 of 2016** Prayers in these Applications to run Buses from Meerut to Bulandsahar via Hapur. We allow the prayers of the applicants. But we make it clear that these buses will not enter into Delhi, that is Ghaziabad, Faridabad, Gurgaon, Greater NOIDA and Sonipat. Accordingly, M.A. Nos. 358/2016 and 545/2016 stand disposed of without any order as to costs. **M.A. No. 360 of 2016** We have heard the Learned counsel appearing for the parties. We clarify that the environmental compensation would be imposed on slab basis. We find that the prayer made in this Application is just and fair and if the offending construction in plot upto 100sq.mt. the

	Item Nos. 06 to 09 **July 20, 2016**	environmental compensation would be Rs. 10,000/-, if the offending construction in more than 100 sq. mtr. But upto 200sq.mt., the environmental compensation would be Rs. 20,000/-, if the offending construction is in a plot of more than 200 sq. mt. but less than 500sq. mt. the environmental compensation would be Rs. 30,000/-, while the offending construction is in a plot area of more than 500 sq.mt. the environmental compensation would be Rs. 50,000/- as already directed by the orders of the Tribunal. Wherever the constructed area is more than 20,000 sq. mtr. The environmental compensation would be Rs. 5 Lakhs. This rate will operate prospectively. Accordingly, M.A. No. 360 of 2016 stands disposed of without any order as to costs. **M.A. No. 406 of 2016** We have heard the Learned counsel appearing for the parties. We direct that all the Authorities in NCT of Delhi including DDA, NDMC, All Municipal Corporation of Delhi and Delhi Cantonment Board that they would ensure that there is no burning of any kind of waste in open or otherwise and for every default occurrence the person would be liable to pay Rs. 5000 /- as environmental compensation to the Officer of the respective Agencies. Even the matter could be reported to Delhi Police also. Accordingly, M.A. No. 406 of 2016 stands disposed of without any order as to costs.

	Item Nos. 06 to 09 **July 20, 2016**	**M.A. No. 567 of 2016** List this matter for arguments on 28th July, 2016. **M.A. No. 708 of 2016** This application is for placing additional documents on record and has been filed on behalf of the Department of Heavy Industries, Government of India. There is no objection to these applications, the Application is allowed subject to just exception. Let the documents be furnished to all the parties appearing in the case during the course of the day. Accordingly, M.A. No. 708 of 2016 stands disposed of without any order as to costs. .....,CP (Swatanter Kumar) .....,JM (M.S. Nambiar) .....,JM (Raghuvendra S. Rathore) .....,EM (Prof. A.R. Yousuf) .....,EM (Bikram Singh Sajwan)

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जे.2 / 9602 2021.01.13

श्री अशोक गहलोत
माननीय मुख्यमंत्री, राजस्थान
101, मुख्यमंत्री खण्ड, सचिवालय
जयपुर– 302 005

मान्यवर,

मोटर वाहनों से हॉकिंग पर तुरंत प्रतिबन्ध लगाने बाबत्

'कट्स' इंटरनेशनल की शुभकामनाऐं!

जैसा कि विषय से इंगित है, मोटर वाहनों में अनावश्यक हॉर्न बजाने (हॉकिंग) की आदत दिन प्रतिदिन बढ़ती जा रही है। इसकी वजह से सड़कों पर बढ़ती वाहन संख्या के साथ बढ़ते शोर ने न केवल अन्य वाहन चालकों, अपितु राहगीरों व सड़क किनारे बसे घरों में रहने वालों का जीना दुश्वार कर दिया है।

इस गंभीर मुद्दे को आज तक किसी भी सरकार अथवा प्रशासन द्वारा न तो उठाया गया और न ही कोई कार्यवाही हुई।

ऐसा नहीं है कि यह मुद्दा 'कट्स' अथवा अन्य सामाजिक संस्था द्वारा ही उठाया गया हो, बल्कि 'नो हॉकिंग' पर प्रतिबन्ध का कई कानूनों में प्रावधान हैं, जैसेः

1. ध्वनि प्रदूषण (नियमन एवं नियंत्रण) नियम, 2000 की नियम 5ए(1)
2. नया मोटर वाहन अधिनियम, 2019 की धारा 194 एफ
3. मोटर वाहन अधिनियम, 1988 की धारा 190
4. मोटर वाहन (चालन) नियमन, 2017 के नियम 23
5. भारतीय दंड संहिता, 1860 के तहत ध्वनि प्रदूषण नियंत्रण की धारा 268(18)
6. आपराधिक प्रक्रिया संहिता 1973 के तहत ध्वनि प्रदूषण नियंत्रण की धारा 133 एवं 134
   (इन सभी का ब्यौरा संलग्न पेम्पलेट में हैं।)

उपरोक्त वर्णित प्रावधानों से साफ है कि इस विषय पर कभी किसी की गंभीर सोच नहीं रही। कुछ वाहन जैसे रोड़वेज की बसें, भारी वाहन जैसे ट्रक या अन्य सभी प्रकार के छोटे–बड़े वाहन कोई भी हॉकिंग करने से पीछे नहीं रहते। वाहन चालकों में इतना भी संयम नहीं है कि लाल बत्ती से हरी होते ही रूके हुए वाहन हॉर्न बजाने लगते हैं, जिससे कि सम्पूर्ण वातावरण न केवल दूषित होता है, बल्कि अन्य चालकों में भी चिड़चिड़ाहट होती है।

हम दूसरे देशों से इस बारे में सबक ले सकते है, जहां पर अति आवश्यकता होने पर ही हॉर्न का इस्तेमाल किया जाता है। नतीजन वातावरण हमेशा शुद्ध रहता है।

बाहर के देशों की छोड़े, हमारे देश में मिजोरम की राजधानी एज़वाल को देखें, जो कि देश की प्रथम हॉकिंग फ्री सिटी है और सिक्किम राज्य में भी यदा कदा ही हॉर्न का शोर सुनाई देता है।

उपरोक्त सभी मुद्दों पर गौर करते हुए आपसे अनुरोध है कि उपलब्ध कानूनी प्रावधानों के सहारे सरकार की तरफ से अनावश्यक हॉकिंग पर प्रतिबंध के लिए कोई दिशा–निर्देश निकाले जाएं।

D-217, Bhaskar Marg, Bani Park, Jaipur 302 016, India ◆ Ph: +91(0)141-228 2821 ◆ Fx: 228 2485 ◆ Email: cuts@cuts.org ◆ Website: www.cuts-international.org
Also at Kolkata, Chittorgarh and New Delhi (India); Lusaka (Zambia); Nairobi (Kenya); Accra (Ghana); Hanoi (Vietnam); Geneva (Switzerland); and Washington DC (USA).

अभी चल रहे 'सड़क सुरक्षा माह' में अगर इस तरह का कोई आदेश अगर सरकार निकाले तो इससे बेहतर संदेश नहीं हो सकता। यह मुद्दा पर्यावरण का ही नहीं, अपितु सड़क सुरक्षा का भी है। इसलिए, उपरोक्त वर्णित प्रावधानों में पर्यावरण कानूनों के साथ सड़क सुरक्षा अधिनियम में भी इसके लिए प्रावधान है।

'कट्स' संस्था ने इसकी गंभीरता को देखते हुए अपने स्तर पर अभियान आरंभ किया है तथा संलग्न पेम्पलेट और स्टीकर आपकी जानकारी हेतु प्रेषित है। लेकिन 'कट्स' जैसी संस्थाएं तो आज अपने स्तर पर अभियान चलाकर जन जागृति का काम कर सकती है, लेकिन सरकार के पास शक्तियां हैं और वे ही इसके लिए कोई कड़े नियम बना व लागू कर सकती है। अगर सरकार की इच्छाशक्ति इस दिशा में सकारात्मक हुई तो हम जयपुर को एज़वाल के बाद दूसरा हांक फ्री शहर बना सकते हैं, तत्पश्चात् राज्य के अन्य शहरों को।

हम आपसे इस संबंध में उचित उत्तर की अपेक्षा करते हैं।

सधन्यवाद।

भवदीय,

दीपक सक्सेना
सहायक निदेशक
मो.: 9799996295
ईमेलः ds@cuts.org

प्रतिलिपिः

1. श्री प्रताप सिंह खाचरियावास, माननीय परिवहन मंत्री, राजस्थान, 2119, मुख्य भवन, सचिवालय, जयपुर– 302 005
2. श्री सुखराम विश्नोई, माननीय वन एवं पर्यावरण राज्य मंत्री, राजस्थान, 6310, मंत्रालय भवन, सचिवालय, जयपुर– 302 005
3. श्री रवि जैन, आयुक्त, परिवहन विभाग, राजस्थान सरकार, परिवहन भवन, सहकार मार्ग, जयपुर– 302 015
4. श्रीमती श्रेया गुहा, प्रमुख शासन सचिव, वन एवं पर्यावरण विभाग, राजस्थान, 8145, उत्तर पश्चिम बिल्डिंग, सचिवालय, जयपुर– 302 015
5. श्री राजेश्वर सिंह, अध्यक्ष एवं प्रबन्ध निदेशक, राजस्थान राज्य पथ परिवहन निगम, प्रधान कार्यालय, चौमू हाउस, सी–स्कीम, जयपुर– 302 005
6. श्री राकेश शर्मा, क्षेत्रीय परिवहन अधिकारी, क्षेत्रीय परिवहन कार्यालय, जगतपुरा, जयपुर– 302 017
7. श्री यज्ञमित्र सिंह देव, आयुक्त, जयपुर नगर निगम, ग्रेटर, प. दीनदयाल उपाध्याय भवन, लालकोठी, टोंक रोड़, जयपुर– 302 018
8. श्री लोक बन्धु, आयुक्त, जयपुर नगर निगम, हेरिटेज, प. दीनदयाल उपाध्याय भवन, लालकोठी, टोंक रोड़, जयपुर– 302 018
9. श्री गौरव गोयल, आयुक्त, जयपुर विकास प्राधिकरण, जे.डी.ए. सर्किल, जवाहर लाल नेहरू मार्ग, जयपुर– 302 004
10. श्रीमती वीनू गुप्ता, अध्यक्ष, राजस्थान प्रदूषण नियंत्रण मंडल, 4, झालाना संस्थानिक क्षेत्र, झालाना डूंगरी, जयपुर– 302 004
11- डॉ. गोविन्द सागर भारद्वाज, मेम्बर सेक्रेटरी, राजस्थान प्रदूषण नियंत्रण मंडल, 4, झालाना संस्थानिक क्षेत्र, झालाना डूंगरी, जयपुर– 302 004

J.2/9620 2021.02.18

Chairman and Managing Director
Rajasthan State Road Transport Corporation
Govt. of Rajasthan
HO: Chomu House, C- Scheme
Jaipur- 302 005

Dear Sir,

Notice for Restrictions on Usage of Air Horns from RSRTC Buses

Greetings from CUTS International.

1. We are a renowned and reputed organisation working in the interest of public safety and security. CUTS is actively involved in raising the road safety issues since long through a number of awareness programmes and campaigns. CUTS study on road safety in 1990 became the basis for the National Road Safety Policy in 1993, seeking to reduce the death level from road accidents. It was nominated to the National Road Safety Council twice, and its first high level Ministerial Committee was established to formulate the National Road Safety Policy. In 1993 and 1997, CUTS was nominated as member of the National Safety Council set up by the Ministry of Road Transport and Highways (MoRTH), Government of India. CUTS was also associated in drafting and giving inputs in the first ever road safety policy of the country.

2. The present notice is to bring into your notice the hazards involved in the usage of Air Horns by RSRTC buses with a request to impose restrictions on the usage of Air Horns by RSRTC Bus Drivers as per the provisions of the Indian Law with regard to the same.

3. Jaipur is the capital of Rajasthan, which is worldwide known as the Pink City of India and holds a population of 3,653,927 and a vehicular population of 2,249,000. At the moment, it is like any other big or small cities of the country but slowly and gradually engulfed by the menace of noise pollution, including that created by loud noises of the horns. Such noises not only add to noise pollution but often results into road rages.

4. It is noteworthy to mention that in foreign countries/cities, we find that there is hardly a honking habit among drivers unlike in Indian cities. In Indian cities, especially those located in Rajasthan, Air horns are installed in the Buses, especially those operated by RSRTC , which horns uses compressed air to create very loud noise. Big trucks and emergency services vehicles use air horns to alert other drivers of their presence, as do trains and ships. Air horns are used at sports events since their volume level is high enough to be heard over loud audiences of fans. But when the normal city buses or the roadways buses do use

such horns, it becomes problematic, not only to other road users but for the people residing on those roads, from where these buses ply.

5. To deal with such Noise Pollution, various laws have been enacted, in which the usage of horns are strictly prohibited. The relevant provisions of various Acts which deals with the subject matter is reproduced herein below for ready reference:

Rule 5A (1) of the Noise Pollution (Regulation and Control) Rules, 2000, states that there can be no honking in silence zones or at night in residential areas except during a public emergency. The rules define the 'silence zone' as an area within 100 meters of any hospitals, educational institutions, courts, religious places or any other area declared as such by the competent authority.

Section 194 F of the New Motor Vehicles Act, 2019 prohibits the use of horns and silence zones, for whoever while driving a motor vehicle:
(i) sounds the horn needlessly or continuously or more than necessary to ensure safety (ii) sounds the horn in an area with a traffic sign prohibiting the use of a horn, or
(iii) drives a motor vehicle, which makes use of a cut-out by which exhaust gases are released other than through the silencer, shall be punishable with a fine of one thousand rupees and for a second or subsequent offence with a fine of two thousand rupees.

Section 190 of the Motor Vehicles Act, 1988, respectively, which ranges from a fine of Rs. 1000 to imprisonment up to five years.

Rule 23 of the Motor Vehicles (Driving) Regulations, 2017, prohibits unnecessary use of horn. It also provides that the horn be sounded only when a driver apprehends danger to himself or any other road user.

Section 268 (18) of Noise Pollution Control under the Indian Penal Code, 1860 considers noise as a public nuisance and thus, there is a criminal liability of a person relating to his illegal omission resulting in common injury, danger, or annoyance to the people in general. The acts of public nuisance have been made punishable under Section 290 of the IPC, which provides that whoever commits a public nuisance in any case not otherwise punishable by the Code shall be punished with the fine, which may extend to two hundred rupees.
Chapter XIV of the Penal Code deals with offences relating to public health, safety, convenience, decency, and morals under Sections 268, 269, 270, 278, 279, 280, 287, 288, 290, 291 and 294.
Sections 188, 295, 296, 337, 399, 441, 425, 426 and 503, noise pollution can be penalised with the help of the above sections. The legal solutions to noise pollution may be characterised as private or public remedies.

Section 133 and 134 of Noise Pollution Control Under the Code of Criminal Procedure, 1973 can also be invoked to prevent pollution of almost all kinds, including noise pollution. Under this, the Executive Magistrates have been

authorised to issue certain conditional orders on the police report or other information, to remove, prohibit or regulate any public nuisance or any trade or occupation, injurious to health or physical comfort of the community as noise sometimes amount to public nuisance and also may cause physical discomfort to the people, its control will lie within the ambit of the aforesaid sections of the Code. The object of such an order is to face the problem of law and order temporarily as the duration of such an order is mere two months.

6. The Hon'ble Apex Court in its few landmark judgment has previously held that noise is a type of atmospheric pollution. It said that noise is a shadowy public enemy, the growing menace of which has increased with regular rattling of engines and intermittent blowing of horns emanating from the caravan of automobiles. Therefore, horns, which would create a honking sound beyond permissible limits should not be allowed to be used or manufactured. The Hon'ble Apex Court in its landmark judgments has directed the States to ensure stringent actions against the violators/offenders of noise pollution.

In view of the above facts, circumstances and the legal position, we urge you to take strict measures in getting remove all the air horns and also take necessary measures to ensure that the buses, while plying within city territory should not use any horn at all so as to prevent noise pollution.

Also intimate us about the orders passed by you in regard to the above within a period of 2 weeks from the receipt of this notice or else we would be compelled to take necessary legal action against RSRTC in the appropriate court of law.

With Kind regards,

Deepak Saxena
Assistant Director
Email: ds@cuts.org

राजस्थान परिवहन निगम मुख्यालय जयपुर ।

क्रमांकः– एफः–मुख्या0 / दुर्ध0 / प्रशि0 / 2021 / 1702 दिनांकः– 23/02/21

मुख्य प्रबन्धक
राजस्थान परिवहन निगम
समस्त आगार ।

विषयः– अनावश्यक हार्न बजाने के क्रम में ।
प्रसंगः– इस कार्यालय पूर्व पंत्राक 1655 दि0 29.01.21 के क्रम में ।

प्रायः ऐसा देखा गया है कि मार्ग पर वाहन संचालन के दौरान निगम चालकों द्वारा वाहन संचालित करते समय अनावश्यक रूप सें हार्न बजाते रहते है जिससें ध्वनि प्रदूषण तो होता ही है साथ–साथ अन्य वाहन चालकों, राहगीरो व सडक के किनारे रहने वालों को भी परेशानी होती है ।

अतः आप आपके अधीन आगार के समस्त चालको को निर्देशित करावे कि मार्ग में व लाल बत्ती सें हरी बत्ती होने पर अनाश्वक हार्न का प्रयोग नही करे तथा आवश्यकता होने पर ही हार्न का प्रयोग करना सुनिश्चित करावे । साथ ही उक्त निर्देशो कीं पालना कर सात दिवस में इस कार्यालय को प्रमाण पत्र भिजवाये ।

— S/D —
(रवि सोनी)
कार्यकारी निदेशक (यात्रिंक)

क्रमांकः– एफः–मुख्या0 / दुर्ध0 / प्रशि0 / 2021 / 1702 दिनांकः– 23/2/21

प्रतिलिपिः– 1. श्री दीपक सक्सैना सहायक निदेशक Consumer Unit & Trust Society D-217 भास्कर मार्ग बनी पार्क जयपुर को सूचनार्थ प्रेषित है

23.2.21
(रवि सोनी)
कार्यकारी निदेशक (यात्रिंक)

CUTS International
Value For People

CONSUMER UNITY & TRUST SOCIETY
A registered, recognised, non-partisan, non-profit and non-government organisation pursuing social justice and economic equity within and across borders.

Speed Post O/C

जे.2 / 9639 2021.03.18

श्री रवि सोनी
कार्यकारी निदेशक (यांत्रिक)
राजस्थान परिवहन निगम
निगम मुख्यालय, चौमू हाऊस, सी–स्कीम
जयपुर– 302 005

महोदय,

अनावश्यक हॉर्न बजाने के क्रम में

'कट्स' इंटरनेशनल की शुभकामनाऐं!

उक्त विषयान्तर्गत आपके पत्रांक एफ:मुख्या. / दुर्घ. / प्रशि. / 2021 / 1702, दिनांक 23 जनवरी, 2021 के संदर्भ में आप द्वारा समस्त आगार के मुख्य प्रबन्धकों को निर्देशित करते हुए वाहन चालकों के लिए निर्देश जारी कराने के लिए कहा है कि वे मार्ग में लाल बत्ती से हरी बत्ती होने पर अनावश्यक हॉर्न का प्रयोग नहीं करें व आवश्यकता होने पर ही हॉर्न के प्रयोग को सुनिश्चित करें। तत्पर कार्यवाही हेतु संस्था आपका हार्दिक आभार प्रगट करती है।

उक्त निर्देशों की पालना के लिए सात दिवस में सभी आगार प्रबन्धकों को प्रमाण पत्र भिजवाने का भी आप द्वारा निर्देश दिया गया है। इस संबंध में निवेदन है कि आपके द्वारा निर्देशित की गई कार्यवाही की पालना सम्बन्धित वस्तुस्थिति से शीघ्र अवगत कराने की श्रम करें।

सधन्यवाद।

भवदीय,

दीपक सक्सेना
सहायक निदेशक
मो.: 9799996295
ईमेल: ds@cuts.org

जे.2/9643 2021.04.05

स्मरण पत्र

श्री रवि सोनी
कार्यकारी निदेशक (यांत्रिक)
राजस्थान परिवहन निगम
निगम मुख्यालय, चौमू हाऊस, सी–स्कीम
जयपुर– 302 005

महोदय,

अनावश्यक हॉर्न बजाने के क्रम में

'कट्स' इंटरनेशनल की शुभकामनाऐं!

उक्त विषयान्तर्गत हमारे पत्रांक जे.2/9639, दिनांक 18 मार्च, 2021 (प्रति संलग्न) के संबंध में लेख है कि उक्त पत्र द्वारा आपसे निवेदन किया गया था कि आपके द्वारा समस्त आगार के मुख्य प्रबन्धकों को अनावश्यक हॉर्न का प्रयोग नहीं करने बाबत् जारी आदेश की पालना सम्बन्धित वस्तुस्थिति से शीघ्र अवगत कराने की श्रम करें।

इस संबंध में आपसे पुनः निवेदन है कि कि आपके द्वारा निर्देशित की गई कार्यवाही की पालना सम्बन्धित वस्तुस्थिति से शीघ्र अवगत कराने की श्रम करें।

अगर आप उचित समझते हैं तो, हम आपसे इस संबंध में व्यक्तिगत रूप से मिल सकते हैं। इसके लिए आप हमें समय एवं तारीख से अवगत कराने का श्रम करें।

सधन्यवाद।

भवदीय,

दीपक सक्सेना
सहायक निदेशक
मो.: 9799996295
ईमेलः ds@cuts.org

राजस्थान राज्य पथ परिवहन निगम, मुख्यालय जयपुर

क्रमांक–एफ5/मुख्या./दुर्घ/प्रशि./21/1886 दिनांक– 31.08.21

श्री दीपक सक्सैना
सहायक निदेशक
डी–217 भास्कर मार्ग बनीपार्क जयपुर
पिन न0– 302016

विषयः– अनावश्यक हार्न का प्रयोग नही करने बावत।
प्रसंगः– आपका पंत्राक जे 2/9643 दि0 04.05.21 के क्रम में ।

उपरोक्त विषयान्तर्गत प्रासंगिक पत्र के क्रम में लेख है कि राजस्थान परिवहन निगम के समस्त आगार के मुख्य प्रबन्धको द्वारा बस चालको को अनावश्यक हार्न का प्रयोग नही करने हेतु आवश्यक दिशा निर्देश जारी कर पाबन्द कर दिया गया है ।

26.8.21

(रवि सोनी)
कार्यकारी निदेशक (यात्रिक)

दैनिक भास्कर जयपुर, शुक्रवार 03 सितंबर 2021

प्रतिबंधित क्षेत्र में हॉर्न बजाने वालों पर सख्ती; रात 12 बजे फोन पर हॉर्न न बजाने की नसीहत देगी पुलिस...नहीं सुधरे तो 1 हजार का चालान भी कटेगा

नो हॉर्न जोन में सख्ती

इशांत वशिष्ठ | जयपुर

ट्रैफिक पुलिस शहर में नो-हॉकिंग जोन की तैयारी में है। स्कूल, मॉल, अस्पताल और चिन्हित जगहों पर हॉर्न बजाने वाले लोगों की वीडियोग्राफी कराई जाएगी और कार्रवाई होगी। पुलिस तीन चरणों में कार्रवाई करेगी।

- पहली बार हॉर्न बजाते पकड़े जाने पर जिम्मेदार को समझाया जाएगा।
- दूसरी बार पकड़े गए तो मौके पर ही आधा घंटा खड़ा रखा जाएगा।
- तीसरी बार हॉर्न बजाते पकड़े गए तो यादगार में एक घंटे की ट्रैफिक नियमों पर बनी फिल्म दिखाई जाएगी।
- इसके बाद भी सुधार नहीं हुआ तो रात 12 बजे फोन कॉल पर हॉर्न नहीं बजाने की नसीहत पुलिस देगी।
- ...और आखिर में एक हजार रुपए का चालान काटा जाएगा।

डीसीपी ट्रैफिक श्वेता धनकड़ टीम तैयार कर रही हैं जो यह काम करेगी। सजा के लिए सोशल मीडिया पर भी सुझाव मांगे जा रहे हैं।

पुलिस जवानों की टीम 'नो हॉर्न जोन' में तैनात की जाएगी, वीडियोग्राफी भी कराई जाएगी

इलस्ट्रेशन : संजय डिमरी

एडि. कमिश्नर राहुल प्रकाश का कहना है तेज हॉर्न बजाने वालों पर नकेल के लिए डीजीपी ने निर्देश दिए हैं। शुरुआत में समझाइश की जाएगी फिर बाद चालान होगा। डीसीपी श्वेता धनखड़ ने बताया कि हॉर्न बजाने से लोगों को परेशानी होती है। पहले से चिन्हित स्थानों को सख्ती से नो-हॉर्न जोन बनाया जाएगा। इसके लिए चिन्हित जगहों पर एक अधिकारी के साथ पुलिस के जवान लगाए जाएंगे। ये जवान वीडियोग्राफी करेंगे।

शहर में कहां-कहां बनाए जाएंगे नो हॉर्न जोन

सचिवालय- स्टेच्यू सर्किल से विस तक जनपथ क्षेत्र, तिलक मार्ग, भवानी सिंह रोड, टी-पॉइंट से पृथ्वीराज रोड तक, सचिवालय के चारों ओर 150 मी. तक।

विधानसभा- विधानसभा के चारों ओर 150 मीटर की दूरी।

कलेक्ट्रेट- कलेक्ट्रेट सर्किल से सवाई जयसिंह हाइवे चिंकारा कैंटीन तक की सड़क के दोनों ओर, शिवमार्ग बनीपार्क धमार्थ सर्किल तक सड़क के दोनों ओर के परिसर, कलेक्ट्रेट सर्किल से खासाकोठी सर्किल तक।

सिविल लाइन- नाटाणियों के चौराहे से सिविल लाइन पुलिस चौकी तक। हवा सड़क टी पॉइंट के बीच का एरिया। इधर, अजमेर रोड, सोडाला थाने तक, फिर हवा सड़क होते हुए सहकार सर्किल, सहकार सर्किल से होटल राजमहल टी-पॉइंट से सिविल लाइन चौकी तक सड़क के बीच का पूरा क्षेत्र। जल भवन से नाटाणियों का चौराहा वाली सड़क के दोनों तरफ।

अस्पताल- शहर के सभी अस्पतालों के चारों ओर 150 मीटर के दायरे में।

बड़ी चौपड़ में स्थित सबसे अधिक खराब

शहर में 6 स्थानों पर मापा ध्वनि प्रदूषण, चिंता : सभी स्थानों पर मानक से अधिक

जयपुर| पॉल्यूशन कंट्रोल बोर्ड ने जनवरी से जून तक 6 स्थानों पर दिन-रात की ध्वनि प्रदूषण की रिपोर्ट जारी की है। एक भी स्थान पर लेवल मानक पर नहीं मिला। शांत, रिहायशी और व्यावसायिक जोन की तीन कैटेगरी में संतोकबा दुर्लभजी, गवर्नर हाउस, निगम, बड़ी चौपड़, राजापार्क और शास्त्रीनगर में सबसे ज्यादा ध्वनि प्रदूषण बड़ी चौपड़ पर रहा, यहां अप्रैल-मई को छोड़कर हर महीने 69 से 71.5 डेसीबल तक ध्वनि स्तर रहा। हालांकि 2019 की तुलना में कुछ स्थानों पर गिरावट भी हुई, इनमें 18 फीसदी गिरावट शास्त्रीनगर में रही।

बोर्ड की रिपोर्ट... आंकड़े डेसीबल में

माह	सिविल लाइन्स	संतोकबा दुर्लभजी	नगर निगम	शास्त्री नगर	राजा पार्क	बड़ी चौपड़
	दिन-रात	दिन- रात	दिन- रात	दिन-रात	दिन-रात	दिन-रात
जनवरी	59.4-48.2	61.4-66.3	58.6-50.1	67.2-56.6	70.3-66.8	70.5-65.1
फरवरी	67.2-47.4	62.0-61.0	55.9-49.9	62.0-51.1	67.6-63.2	71.3-68.9
मार्च	65.3-41.1	60.7-65.2	56.6-50.2	60.0-52.8	65.2-60.5	71.5-68.9
जून	57.5-51.2	63.0-58.0	57.6-50.3	61.6-49.3	65.1-55.6	69.9-62.4

तय मानक

सिविल लाइन्स और दुर्लभजी दिन-50.0 रात-40.0 | नगर निगम, शास्त्रीनगर दिन-55.0 रात-45.0

राजापार्क, बड़ी चौपड़ दिन-65.0 रात-55.0

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J.2/6432 2021.09.06

Mr Sandeep Verma
Chairman and Managing Director
Rajasthan State Roadways Transport Corpn. (RSRTC)
Jaipur

Dear Mr. Verma,

Ban on Air Horns in Buses

Greetings from CUTS International!

This refers to previous letters sent by my colleague Deepak Saxena dated February 18, 2021; March 18, 2021; April 5, 2021; June 25, 2021 and August 8, 2021 respectively regarding the menace of honking specially the illegal usage of air horns by buses of all kinds in Jaipur by the drivers. (*The whole correspondence is attached again for your ready reference)*.

In these correspondences, you will notice a letter dated February 23, 2021 from Mr Ravi Soni, Executive Director (Engineering), RSRTC, which speaks about asking all Depot Managers for instructing all bus drivers to avoid unnecessary honking mainly when plying within city territories and also to submit the status report of its compliance. Despite several reminders to Mr Soni, we have not received the updates regarding receipt of compliance status reports from Depot Managers and now it's been almost nine months.

We now understand from a news report in Dainik Bhaskar of 3rd September where the state government is planning to take action on unnecessary honking, copy of which is enclosed with this letter.

Give the above, may we request you to take necessary action to stop this noise nuisance in our cities.

For further discussion, either me or my colleagues may come and discuss with you in person as and when you are convenient.

I look forward to your valued response and cooperation.

With warm regards

Yours sincerely,

Pradeep S Mehta

Cc: Mr Ravi Soni, Executive Director (Engineering), RSRTC Head Quarters, Jaipur

जयपुर फ्रंट पेज

दैनिक भास्कर

दैनिक भास्कर जयपुर, बुधवार 29 सितंबर, 2021 | 2

जयपुर पुलिस और दैनिक भास्कर का 'नो हॉन्किंग' पर सबसे बड़ा अभियान; कृपया व्यर्थ हॉर्न ना बजाएं

ध्वनि प्रदूषण फैलाया तो पुलिस पिंक पर्ची काटेगी फिर भी नहीं माने तो ₹1000 का चालान काटा जाएगा

...क्योंकि शहर का 70% ध्वनि प्रदूषण वाहनों के शोर से

क्राइम रिपोर्टर | जयपुर

शहर में बढ़ते वाहनों ने ध्वनि प्रदूषण का 'डेसीबल' बढ़ा दिया है। 70% ध्वनि प्रदूषण वाहनों के हॉर्न से हो रहा है। नई तकनीक की गाड़ियों ने 'लग्जरी' तो दी है लेकिन इनके हॉर्न की तीव्रता 100 डेसीबल से अधिक मापी गई है। एक्सपर्ट का कहना है कि आम आदमी के लिए 55 डेसीबल से ज्यादा की ध्वनि खतरनाक है। प्रदूषण की ध्वनि कम करने के लिए दैनिक भास्कर और ट्रैफिक पुलिस की ओर से संयुक्त पहल 'कृपया व्यर्थ हॉर्न ना बजाएं' की जा रही है। ध्वनि प्रदूषण कम करने के लिए ट्रैफिक पुलिस एक सप्ताह तक शहर में व्यापक अभियान चलाएगी। पहली बार बेवजह हॉर्न बजाने वालों की पिंक पर्ची कटेगी और मानसरोवर स्थित काउंसलिंग सेंटर में समझाइश की जाएगी। काउंसलिंग में नहीं आने पर नए मोटर व्हीकल एक्ट के तहत 1000 रु. का चालान काटा जाएगा।

आज ओटीएस चौराहे से अभियान की शुरुआत

अभियान की शुरुआत बुधवार दोपहर एक बजे जेएलएन मार्ग पर ओटीएस चौराहे से होगी। एडिशनल कमिश्नर राहुल प्रकाश का कहना है कि शहर के सभी प्रमुख चौराहों पर हॉर्न के दुष्परिणामों वाले स्लोगन लगाए जाएंगे। बुधवार को ओटीएस पर जागरूकता के लिए एक शॉर्ट फिल्म दिखाएंगे। 'नो हॉर्न जोन' के साइन बोर्ड लगेंगे। चौराहों पर नुक्कड़ नाटक से संदेश देंगे। कुछ दिन पहले डीजीपी एमएल लाठर ने पुलिस कमिश्नर आनंद श्रीवास्तव से शहर में अनावश्यक हॉर्न बजाने पर चिंता जाहिर की थी। इस पर पुलिस कमिश्नर ने अभियान की रूप-रेखा तैयार की।

बड़ी चौपड़ पर सबसे ज्यादा 55 की बजाय 71.5 डेसीबल तक वाहनों का शोर

पॉल्युशन कंट्रोल बोर्ड का कहना है कि जनवरी से जून तक के सर्वे में शहर में एक भी स्थान ध्वनि प्रदूषण के तय मानक से नीचे नहीं मिला। बोर्ड ने सर्वे 6 स्थानों पर करवाया। इसके लिए 70 फीसदी तक हॉर्न बड़ा कारण हैं।

1. शांत, रिहायशी और व्यावसायिक जोन में संतोकबा दुर्लभजी, सिविल लाइन्स, गवर्नर हाउस, नगर निगम, बड़ी चौपड़, राजापार्क व शास्त्रीनगर में दिन-रात के ध्वनि का लेवल अधिक मिला।
2. बड़ी चौपड़ पर सबसे ज्यादा ध्वनि प्रदूषण। 6 माह में 69 से 71.5 डेसीबल के बीच स्तर रहा।
3. 2019 की तुलना में कुछ स्थानों पर गिरावट भी दर्ज हुई, इनमें 18 फीसदी गिरावट शास्त्रीनगर में रही।

कान की मांसपेशियों और परदे पर सबसे ज्यादा असर

ईएनटी स्पेशलिस्ट डॉ. सतीश जैन का कहना है कि अचानक तेज हॉर्न से कानों की मांसपेशियां कमजोर होती हैं। कई महीने तक ऐसी स्थिति में बहरापन आ सकता है।

कोलेस्ट्रोल बढ़ता है, रक्त नलियां सिकुड़ जाती हैं

न्यूरोलॉजिस्ट डॉ. पृथ्वी गिरि और कॉर्डियोलॉजिस्ट डॉ. अशोक गर्ग की मानें तो शोर से चिड़चिड़ाहट और गुस्सा आता है। लगातार शोर खून में कोलेस्ट्रोल बढ़ाता है। हार्ट बीट भी बढ़ती है।

79 A/10

Noise limits for vehicles at manufacturing stage

(The Noise Limits for vehicles were notified by Environment (Protection) Amendment Rules, 2000, vide G.S.R. 742 (E), dated 25th September, 2000 and inserted as serial no. 93 of Schedule I of the Environment (Protection) Rules, 1986. Subsequently these Rules were amended by the Environment (Protection) Amendment Rules, 2002, vide G.S.R. 849 (E), dated 30th December, 2002 and the Environment (Protection) Amendment Rules, 2005, vide G.S.R. 272 (E), dated 5th May, 2005, under the Environment (Protection) Act, 1986)

The test method to be followed shall be IS:3028-1998.

(1) Noise limits for vehicles applicable at manufacturing stage from year 2003

S. No.	Type of vehicle	Noise Limits from 1st January, 2003, dB(A)	Date of implementation
(1)	(2)	(3)	(4)
1.	Two wheeler Displacement upto 80 cm^3 Displacement more than 80 cm^3 but upto 175 cm^3 Displacement more than 175 cm^3	 75 77 80	Ist January,2003
2.	Three wheeler Displacement upto 175 cm^3 Displacement more than 175 cm^3	 77 80	Ist January,2003
3.	Passenger car	75	Ist January,2003
4.	Passenger or commercial vehicle Gross vehicle weight upto 4 tonne Gross vehicle weight more than 4 tonne but upto 12 tonne Gross vehicle weight more than 12 tonne	 80 83 85	Ist July,2003

(2) Noise limits for vehicles applicable at manufacturing stage applicable from 1st April, 2005

S. No.	Type of vehicle	Noise Limits from 1st January, 2003, dB(A)
1.0	**Two wheeler**	
1.1	Displacement upto 80 cc	75
1.2	Displacement more than 80 cc but upto 175 cc	77
1.3	Displacement more than 175 cc	80
2.0	**Three wheeler**	
2.1	Displacement upto 175 cc	77
2.2	Displacement more than 175 cc	80
3.0	**Vehicles used for carriage of passengers and capable of having not more than nine seats, including the driver's seat**	74
4.0	**Vehicles used for carriage of passengers having more than nine seats, including the driver's seat, and a maximum gross Vehicle Weight(GVW) of more than 3.5 tonnes**	
4.1	With an engine power less than150 KW	78
4.2	With an engine power of 150 KW or above	80
5.0	**Vehicles used for carriage of passengers having more than nine seats, including the driver's seat: Vehicles used for carriage goods.**	
5.1	With maximum GVW not exceeding 2 tonnes	76
5.2	With maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes	77
6.0	**Vehicles used for transport of goods with a maximum GVW exceeding 3.5 tonnes.**	
6.1	With an engine power less than 75 KW	77
6.2	With an engine power of 75 KW or above but less than 150 KW	78
6.3	With an engine power of 150 KW or above,	80"

Provided that for vehicles mentioned at serial numbers 3.0 to 6.3, the noise limits for the following States shall be applicable on and from the date specified against that State,-

(i) Himachal Pradesh with effect from 1st Octuber, 2005
(ii) Jammu and Kashmir with effect from 1st October, 2005

(iii) Madhya Pradesh with effect from 1st September, 2005
(iv) Panjab with effect from 1st Octuber, 2005
(v) Rajasthan with effect from 1st June, 2005
(vi) Uttar Pradesh (Mathura, Kannauj, Muzaffarnagar, Aligarh, Farukkabad, Saharanpur, Badaun, Barreily, Moradabad, Hathras, Rampur, Bijnor, Agra, Pilibhit, J.P.Nagar, Mainpuri, Lalitpur, Hardoi, Ferozabad, Jhansi, Shahajahanpur, Etawah, Jalon, Lakhimpur, Kheri, Etah, Mahoba and Sitapur) with effect from 1st June, 2005
(vii) Uttaranchal with effect from 1st July, 2005”

Item No. 01 to 04 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 519/2016
WITH
Original Application No. 496/2018
(M.A. No. 1159/2018)
WITH
Original Application No. 196/2018
WITH
Original Application No. 197/2018

Hardeep Singh & Ors. Applicant(s)

Versus

SDMC & Ors. Respondent(s)

WITH

Akhand Bharat Morcha Applicant(s)

Versus

Union of India & Ors. Respondent(s)

(Reports filed in O.A No. 519/2016, in O.A. No. 496/2018, O.A. No. 196/2018 & O.A. No. 197/2018)

Date of hearing: 01.08.2019

CORAM: **HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON**
HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER
HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Original Application No. 519/2016

For Applicant(s): Mr. Manish Garg, Mr. Vijay, Advocates

For Respondent (s): Ms. Krishna Kumar Singh, Advocate for MoEF&CC
Ms. Jyoti Mendiratta, Advocate for GNCTD
Ms. Sakshi Popli, Advocate for DPCC and NDMC with Dr. M.P George, Scientist, DPCC
Ms. Puja Kalra, Mr. Virendra Singh, Advocate
Mr. Nitin Jindal, SDM Dwarka

Mr. Shanker Chaudhary, Addl. DCP/PCR

Original Application No. 496/2018 and connected matters

For Applicant(s): Mr. Rahul Raj Malik, Advocate

For Respondent (s): Ms. Jyoti Mendiratta, Standing Counsel for GNCTD
Mr. Rajkumar, Advocate for CPCB
Ms. Sakshi Popli, Advocate for DPCC with Mr. Dinesh Jindal, Law Office, DPCC
Mr. Jasmeet Singh, IPS, DCP/East
Ms. Meghna Yadav, IPS, DCP/Shahdara
Mr. Parvinder Singh, IPS, Addl. DCP/South

ORDER

1. The issue for consideration is the failure of the statutory authorities in Delhi in controlling noise pollution as per statutory mandate of Noise Pollution (Regulation and Control) Rules, 2000 (**Noise Rules**). The matter has been dealt with earlier by this Tribunal in the light of judgment of Delhi High Court in *Free Legal Aid Cell Vs. Government of NCT of Delhi*[1] and of the Hon'ble Supreme Court in *In Re: Noise Pollution - Implementation of the Laws for restricting use of loud speakers and high volume producing sound systems.* [2]

2. The grievance of the Applicants is that in spite of the above orders, unsatisfactory state of affairs continued. There was use of DJ systems, music systems, public address systems etc. during weddings or other functions and noise was being created at odd hours adversely affecting the health of the citizens. Reference was made to the order of this Tribunal dated 18.12.2012 in *Supreme Court Group Housing Vs. All India Panchayat Parishad, Original Application No. 34/2011* directing establishment of call centers,

[1] AIR 2001 Delhi 455
[2] (2005) 5 SCC 733

drawing up a Standard Operating Procedure (SOP) regarding control of noise pollution and banning the use of generator sets of capacity of 5 KVA and above in the residential areas between 10 pm to 6 am, apart from other directions.

3. The steps taken pursuant to the earlier orders of this Tribunal, included the issuance of orders by the Commissioner of Police and DCP (Traffic) and SDM (East Delhi) and action plans were also placed before the Tribunal providing for setting up of call centers and drawing up detailed SOP for controlling noise pollution. The Ministry of Environment, Forest and Climate Change (**MoEF&CC**) amended the Noise Rules on 10.01.2010 prohibiting loud speakers, public address systems at night time except in closed premises. The DCP (Traffic) filed a status report indicating the number of challans etc.

4. In *Original Application No. 519 of 2016*, the Tribunal, vide order dated 27.09.2018, held that steps taken were hardly effective on the ground. The problem of noise pollution continued, directions in the order of the Hon'ble Supreme court in *In Re: Noise Pollution - Implementation of the Laws for restricting use of loud speakers and high volume producing sound systems*[3] had not been fully complied with. Accordingly, the Tribunal directed the Chief Secretary, Delhi, the Commissioner of Police, Delhi and the Delhi Pollution Control Committee (DPCC) to take steps for enforcing the directions of the Hon'ble Supreme Court and the Noise Rules with regard to use of loud speakers, control of vehicular noise and creation of awareness. The Commissioner of Police was to nominate a DCP and the Chief

[3] Supra at 2 and (2005) 5 SCC 728

Secretary was to nominate a SDM who were to meet once in every week to take stock of the situation. They were to set up an exclusive website and dedicated helpline, apart from other steps. Report of compliance was to be filed.

5. In *Original Application. No. 496/2018, Original Application No. 196/2018* and *Original Applicant No. 197/2018 also, similar grievance against* non-enforcement of the Noise Rules in Delhi have been raised. Vide order dated 10.08.2018 in O.A No. 496/2018, joint inspection was directed to be conducted and a report was directed to be furnished. The report dated 31.10.2018 was considered on 14.02.2019 along with O.A No. 196/2018 and O.A No. 197/2018 and directions were issued to take remedial action. The Tribunal also directed the presence of DCP (East), DCP (Shahdara) and DCP (South) with action plans. O.A No. 496/ 2018, O.A No. 196/2018 and O.A No. 197/2018 were again taken up on 14.03.2019, along with O.A 519/2016 and after interaction with the officers who are to enforce the Noise Rules, further directions were issued to identify and map hotspots, install noise measuring device on the devices causing high noise level, conduct surveillance and monitoring and conduct awareness and coordination with RWAs. The Commissioner of Police, Delhi was also to monitor and furnish a report to this Tribunal. Taking note of the judgments of the Hon'ble Supreme Court in *In Re: Noise Pollution - Implementation of the Laws for restricting use of loud speakers and high volume producing sound systems*[4], *Re: Ramlila*

[4] (2005) 5 SCC 733

Maidan Incident[5] and *Farhd K. Wadia vs. Union of India & Ors*[6] and the rules on the subjects, the Tribunal further directed that requisite action be taken including setting up of a website and helpline, The concerned authorities were also required to acquire noise monitoring devices for effective monitoring.

6. In response to the above order, the Special Commissioner of Police, Operations, Delhi has furnished a report dated 15.04.2019 that process has been started for website, two Monitoring Committees- Apex Committee headed by Special CP (Traffic) and a Joint Committee headed by Additional CP, O&M, have been constituted. Further report dated 30.06.2019 has been filed by the DCP, Police Control Room stating that a website has been developed (*ngms.delhi.gov.in* developed by NICS), helplines (*No. 155271*, dedicated 24X7) have been developed and awareness programme is to be undertaken by the Local Bodies. Local Bodies have to acquire static and hand held devices and install them at hotspots. Minutes of meetings held by the Joint Committee on different days have been annexed. Reference has also been made to the orders of this Tribunal dated 08.03.2019 and 08.07.2019 in *Westend Green Farms Society vs. Union of India & Ors.*[7], requiring steps to be taken for dealing with the noise pollution at hotels, banquets or other similar establishments having potential for causing noise in Delhi.

7. The DCP (East), DCP (Shahadra) and DCP (South) are present today and have individually furnished further action taken reports dated

[5] (2012) 5 SCC 1
[6] (2009) 2 SCC 442
[7] O.A 400/2017

01.07.2019 which show some level of coordination with the RWAs, schools and penal action against individuals found violating the Noise Rules and the provisions of the Environment Protection Act, 1986. The reports also indicate that based on the details and specifications provided by the CPCB, request has been made to concerned authority to provide 25 (East District) & 20 (each for Shahdara and South District) sound measuring devices with a view to equip the staff. We have been also apprised that SDPOs and SHOs have been directed to keep vigil over any activities which are violative of the Noise Rules. ACPs and SHOs of Shahdara District have been directed to brief their division/beat staff to upload sound meter app in their mobile phones to enable them to check noise pollution in their respective areas.

8. In *Original Application No. 496/2018, 196/2018 and 197/2018,* we take note the action taken report and revised action plan filed by the Commissioner of Police, Delhi on 28.06.2019 which compiles the information already noted, in regard to meetings with the members of the Resident/Market Welfare Associations, educational institutions and imposition of challans. This report also states that a dedicated helpline no. 155271 has been made operation since 05.04.2019 for the purpose of receiving complaints related to noise pollution. Website in the similar lines is still under progress.

9. We find that though some steps have been taken, the enforcement of legal mandate under the Noise Pollution (Regulation and Control) Rules, 2000 and compliance of the directions of the Hon'ble Supreme Court and this Tribunal is still a far cry. Dr. M.P George, Scientist,

DPCC, present during the hearing, has stated that DPCC has only five monitoring stations which even according to him are not adequate. The DPCC must undertake gap analysis and set up sufficient number of monitoring stations and acquire such number of equipments as may be necessary. Instructions may be issued for requiring noise measurement equipment to be fitted to the equipment used with the potential of high noise level beyond permissible limits. There is need for instructions that noise levels be displayed at functions where high noise generating equipments are used. The DPCC may notify the specifications and methodology for acquiring such equipment in consultation with concerned technical experts.

10. We sought information about the working of the Monitoring Committees - the Joint Committee and the Apex Committee. There is nothing to show whether the Apex Committee has made any assessment of the monitoring mechanism on regular basis. It is not clear as to what activities such Committees are doing.

11. Under Rule 4(3) of the Noise Rules, the DPCC is required to collect, compile and publish technical and statistical data relating to noise pollution and to undertake measures for prevention, control and abatement of noise. This is not shown to have been done. As already noted, the DPCC does not even have sufficient equipment for collecting such data.

12. It may be noted that while dealing with the issue of noise pollution in *Original Application No. 681/2018 News Item Published in 'The Times*

of India' authored by Shri Vishwa Mohan "NCAP with Multiple Timelines to Clear Air in 102 cities To be Released Around August 15"[8], this Tribunal, vide order dated 15.03.2019 directed the CPCB to prepare noise pollution map and categorize the cities with specified hotspots and prepare a remedial action plan[9]. It was also noted that there as need for training regulatory machinery, prepare action plan and monitoring mechanism, create awareness among the students and involve RWAs, social and religious institutions, prosecute violators, seize equipment, recover compensation, install noise measurements meter by those using high noise generating equipment with data loggers fitted thereon. The Chief Secretaries of all the states were to finalize their action plans and submit the same to the CPCB. CPCB was to lay down the scale of compensation to be recovered, including the conditions subject to which a seized equipment was to be released. The report filed by CPCB in O.A No. 681/2018 on the subject, *inter alia,* shows that 46 metropolitan in 17 States/UTs have been identified for carrying out noise mapping and identification of hotspots. It has laid down National Ambient Noise Monitoring Network in 7 cities for 70 locations. Action Plans have been received from 10 States/UTs, including Delhi. The Action Plan of Delhi was found to be non-compliant, with regard to training for use of measurement devices and to develop robust protocol for action against defaulters. With regard to integration of noise meters in public address systems, though the manufacturers associations have found it not to be economically feasible. States of Tripura and West

[8] Order dated 15.03.2019
[9] Para 12 in O.A 681/2018

Bengal[10] have made polices for mandatory use of sound limiters in sound systems, for effective control of noise pollution.[11] Use of loud speakers is permitted only when amplifiers are attached to sound limiters. The CPCB has suggested that this policy may be practiced by all states to mitigate noise pollution. Scale of compensation is however yet to be finalized. The report may be placed on the website of the CPCB for a period of three months.

13. The CPCB needs to devise the scale of compensation to be adopted as a measure to enforce the Rule 4(2) of the Noise Pollution (Regulation and Control) Rules, 2000 by the concerned authority on the basis of 'Polluter Pays' principle. Though violation of the rules like the Noise Rules here, is a criminal offence punishable under Section 15 of the Environment (Protection) Act, 1986 with imprisonment upto five years and fine upto Rs. 1 lakh, since prosecution of a non-cognizable offence may have its own limitations, civil liability on 'Polluter Pays' principle can be invoked by the enforcement regulatory authority as per the guidelines which may be laid down by the CPCB. The scale of compensation may have reference to the extent and severity of default and whether the default is a repeated offence. Meaningful enforcement of the Noise Rules requires availability of noise measurement equipment and in the course of exercising power of

[10] Reference has been also made to proceedings of the Eastern Zone in O.A 158/2016 (EZ).

[11] See notification issued by the State of Tripura as follows: "In exercise of the power conferred by rule 5(3) of the Noise Pollution (Regulation and Control) Rules 2000 issued under the Environment (Protection) Act, 1986, the Governor of Tripura is pleased to issue this Notification for mandatory use of Sound Limiter(s) in all Sound System/ Public Address System for effective control of Noise pollution in the whole state with immediate effect as an addendum to rule 5. No sound system should be sold/ purchased/supplied/installed/let out/ used by any manufacturer/ dealer/shopkeeper/ any agency who lets out the PA system etc./ individual without having sound limiter in it. Further, all Licensing Authorities including Police Authorities, Municipal Corporation, Municipal Councils, Nagar Panchayats, Panchayat shall ensure that no audio system or public address system shall be let out/installed without being fitted with sound limiter in any government or non government function and this condition be included in all licenses issued by respective agencies.

enforcement under Rule 4(2), the authority can certainly lay down measures including the requirement of installing a noise meter on the noise creating equipment itself, such as loudspeakers, public address systems, DJs etc. under Rule 5, as has been done in West Bengal and Tripura and as recommended by the CPCB for all States/UTs.

14. In view of the above, we find it necessary to issue following directions:

(a) Further steps for meaningful enforcement of Noise Rules be taken by the DPCC and concerned authorities.

(b) Delhi Government may issue appropriate notification on the pattern of Notification issue by the Tripura Government for mandatory use of sound limiters in all sound systems[12]. Delhi Government may address the observations of CPCB finding deficiency in its action plan with regard to training for use of measurement devices and developing robust protocol for action against defaulters[13]. A compliance report be filed.

(c) Sound measuring devices as sought by the DCP East, Shahdara and South Districts be made available by the DCP logistics[14]. Let the Special CP (Traffic), in-charge of the Apex Committee, file an affidavit about the methodology for assessing working of the Committees which are being overseen by the Apex Committee which may include compliance of directions issued to the DCP Logistics.

[12] See para 9 above
[13] See para 12 above
[14] See para 7 above

(d) DPCC may undertake gap analysis and set up sufficient number of monitoring stations and acquire requisite number of equipment[15], compile and publish statistical data relating to noise pollution[16], prescribe interim scale of compensation pending finalization of the same by CPCB[17]. Compliance report may be filed by DPCC.

The above reports may be filed on or before 31.10.2019 by email at judicial-ngt@gov.in.

Copies of this order be sent to the CPCB and NCT Delhi who are not represented by e-mail.

List for further consideration on 15.11.2019.

Adarsh Kumar Goel, CP

S.P. Wangdi, JM

K. Ramakrishnan, JM

Dr. Nagin Nanda, EM

August 1, 2019
Original Application No. 519/2016 and connected matters
AK&DV

[15] See para 9 & 12 above
[16] See para 11 above
[17] See para 13 above

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

Principal Bench, New Delhi

Original Application No. 519/2016
With
Original Application No. 496/2018

In the matter of:-

Hardeep Singh & Ors. **Applicant(s)**

VS.

SDMC & Ors. **Respondent(s)**

With

Akhand Bharat Morcha **Applicant**

VS.

Union of India & Ors. **Respondent(s)**

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(N.K. Gupta)
Scientist -E
Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar,
Delhi-110032

Place: Delhi
Dated: 12.06.2020

REPORT ON

"SCALE OF COMPENSATION TO BE RECOVERED FOR VIOLATION OF NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000"

SUBMITTED IN COMPLIANCE TO HON'BLE NATIONAL GREEN TRIBUNAL (NGT) ORDER DATED 15.11.2019 (uploaded on 20.11.2019)

IN THE MATTER O.A NO. 519 OF 2016 TITLED; HARDEEP SINGH & ORS VS SDMC & ORS

WITH

O.A NO. 496 OF 2018

Akhand Bharat Morcha

Versus

Union of India & Ors.

CENTRAL POLLUTION CONTROL BOARD

(Ministry of Environment, Forest & Climate Change)

Parivesh Bhawan East Arjun Nagar,

Delhi-110032

June,2020

1.0 BACKGROUND

Hon'ble NGT vide order dated 01/08/2019 in the matter of O.A No. 519 of 2016 titled; Hardeep Singh &Ors Vs SDMC &Ors directed as:

> *"The CPCB needs to devise the scale of compensation to be adopted as a measure to enforce the Rule 4(2) of the Noise Pollution (Regulation and Control) Rules, 2000 by the concerned authority on the basis of 'Polluter Pays' principle. Though violation of the rules like the Noise Rules here, is a criminal offence punishable under Section 15 of the Environment (Protection) Act, 1986 with imprisonment upto five years and fine upto Rs. 1 lakh, since prosecution of a non-cognizable offence may have its own limitations, civil liability on 'Polluter Pays' principle can be invoked by the enforcement regulatory authority as per the guidelines which may be laid down by the CPCB. The scale of compensation may have reference to the extent and severity of default and whether the default is a repeated offence."*

In compliance to above, CPCB submitted its report on 14/11/2019 Copy of report attached as Annexure-I. Hon'ble NGT vide order dated 15.11.2019 (uploaded on 20.11.2019) further directed CPCB as follows:

> *"We are of the view that compensation for bursting of crackers at serial No. 4 needs to be suitably revised and needs to be different for different classes of defaulters and frequencies of default. Further, the CPCB has suggested that compensation should be 2-3 times for second and third violations accompanied by withdrawal of permission for installation/operation for their equipment.*
>
> *The CPCB may also lay down stringent compensation for tampering with the sound limiters to ensure that the same is not restored to. Let compliance reports be filed by CPCB, Department of Environment, DPCC and Special Commissioner of Police, Delhi by 31.03.2020 by email at judicial-ngt@gov.in."*

2.0 COMPLIANCE

In compliance to Hon'ble NGT directions, meeting of the committee for compliance of NGT directions was held on 05th March 2020. Committee agreed for revising compensation for bursting of fire crackers for different classes of defaulters and frequencies of default as per directions of Hon'ble NGT. After detailed discussion modified scale of compensation for violation of Noise Rules, 2000 finalized by committee is tabulated in Table below:

Table 1: Enlistment of Violation of Noise Rules and their respective Scale of compensation.

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter		Action to be taken by designated authority
1.	**USE OF LOUD SPEAKERS / PUBLIC ADDRESS SYSTEM[1] (Clause 5(1)- 5(2), 6(i, ii, iii and v)[1-5]**	₹ 10,000		Seizure
2.	**VIOLATION WRT GENERATOR SETS NORMS(Standards attached as Annexure –IV to VI)**			
a)	**DG sets more than 1000 KVA**	₹ 1,00,000		Sealing of DG sets
b)	**DG sets 62.5 to 1000 KVA**	₹ 25,000		
c)	**DG sets up to 62.5 KVA**	₹ 10,000		
3.	**VIOLATION OF USE OF SOUND EMITTING CONSTRUCTION EQUIPMENTS[6]**	₹ 50,000		Seizure / Sealing of Equipment
4.	**Bursting of Firecrackers beyond the prescribed time limit prescribed (Hon'ble Supreme Court and Clause 5A (2) and 6 (iv) [7-8]**			
4(1)	**Violation by Individual/Household**	Residential/ Commercial/ Mixed Zone	Silence Zone	
		1,000	3,000	
4(2)	Violation during Possession a. Public Rallies b. Barat during marriage Religious event	10,000	20,000	Fine to be paid by Organizer
4(3)	First Violation within a fixed Premises: a. Function organized by RWA, b. Marriage Function c. Public Function d. Institution function e. Banquet Hall f. Open ground functions	20,000		Fine to be paid by Organizer and Owner of the place.

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
4(4)	Second Violation within a fixed Premises: a. Function organized by RWA, b. Marriage Function c. Public Function d. Institution function e. Banquet Hall Open ground functions	40,000	
4(5)	More than Two Violation within a fixed Premises: a. Function organized by RWA, b. Marriage Function c. Public Function d. Institutional function e. Banquet Hall Open ground functions	1,00,000 and action under EP Act.	Sealing of Premises

Note:

1. *Clause 5(1): A loud speaker or a public address system shall not be used except after obtaining written permission from the authority.*
2. *Clause 5(2): A loud speaker or a public address system or any sound producing instrument or a musical instrument or a sound amplifier shall not be used at night time except in closed premises for communication within, like auditoria, conference rooms, community halls, banquet halls or during a public emergency.*
3. *Clause 6 (i) Playing any music or uses any sound amplifiers in any place covered under the silence zone/area are prohibited.*
4. *Clause 6(ii): Beating a drum or tom-tom or blows a horn either musical or pressure, or trumpet or beats or sounds any instrumenting any place covered under the silence zone/area are prohibited.*
5. *Clause 6(iii): Exhibits any mimetic, musical or other performances of a nature to attract crowds in any place covered under the silence zone/area are prohibited.*
6. *Clause 5(A) (3): Sound emitting construction equipment shall not be used or operated during night time in residential areas and silence zones*
7. *Sound emitting fire crackers shall not be burst in silence zone or during night time in each zone;*
8. *As per directions of Hon'ble Supreme court, following time limits are prescribed for bursting fire crackers:*
   Diwali: 8pm to 10pm
   Gurpurb: 4am to 5am and 9pm to 10pm
   New Year and Christmas: 11.55 P.M to 12.30 A.M

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
9.	*It may be noted that imposition of fine for notification of Rule 5A(1) falls within the purview of Motor Vehicle Rules, 2019*		

CPCB also deliberated on the issue of compensation to be imposed for tampering of sound limiters. In view of the committee member's suggestions, it is concluded that:

1. Sound Limiter working is not full proof and it is additional unit in addition to Loudspeakers which can be easily Plug in or Plug Out, Sound limiters cannot be used for ensuring regulations.
2. Central Pollution Control Board is in process of framing source specific standards for regulations of Loud Speakers and Public Address System for specific uses.

REPORT ON

"SCALE OF COMPENSATION TO BE RECOVERED FOR VIOLATION OF NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000"

SUBMITTED IN COMPLIANCE TO HON'BLE NATIONAL GREEN TRIBUNAL (NGT) ORDER DATED 01.08.2019 IN THE MATTER O.A NO. 519 OF 2016 TITLED; HARDEEP SINGH & ORS VS SDMC & ORS

CENTRAL POLLUTION CONTROL BOARD
(Ministry of Environment, Forest & Climate Change)
Parivesh Bhawan East Arjun Nagar,
Delhi-110032

October, 2019

1.0 BACKGROUND

Hon'ble NGT vide order dated 01/08/2019 in the matter of O.A No. 519 of 2016 titled; Hardeep Singh &Ors Vs SDMC &Ors directed as:

> *"The CPCB needs to devise the scale of compensation to be adopted as a measure to enforce the Rule 4(2) of the Noise Pollution (Regulation and Control) Rules, 2000 by the concerned authority on the basis of 'Polluter Pays' principle. Though violation of the rules like the Noise Rules here, is a criminal offence punishable under Section 15 of the Environment (Protection) Act, 1986 with imprisonment upto five years and fine uptoRs. 1 lakh, since prosecution of a non-cognizable offence may have its own limitations, civil liability on 'Polluter Pays' principle can be invoked by the enforcement regulatory authority as per the guidelines which may be laid down by the CPCB. The scale of compensation may have reference to the extent and severity of default and whether the default is a repeated offence."*

2.0 LEGAL FRAME WORK WITH RESPECT TO NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

2.1 Existing rules and standards

- Noise pollution (Regulation and Control) Rules, 2000 are notified by MoEF& CC and responsibilities and restrictions are defined with authorities for further implementation.
- Standards have been fixed for most of the major sources of noise, as well as ambient noise level in different category areas such as Silence Zone, Commercial, Industrial and Residential Area. The maximum permissible levels of Ambient Noise in Indian Cities notified by Ministry of Environment & Forests vide its notification no. S.O. 123 (E), (14-02-2000), Noise Pollution (Regulation & Control) Rules, 2000 is as follows:

Area Code	Category of Area/Zone	Limit in dB (A) Leq	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1. Day time shall mean from 6 AM to 10 PM.
2. Night time shall mean from 10 PM to 6 AM.
3. Silence Zone is defined as areas up to 100 meters around such premises as hospitals, educational institutes and courts. The Silence Zones are to be declared by competent authority. Use of Vehicular horns, loudspeaker and bursting of crackers shall be banned in these

Area Code	Category of Area/Zone	Limit in dB (A) Leq	
		Day	Night
zones. 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority. *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear. 5. Leq: It is an energy mean of the noise level over a specific period			

- Under Noise Pollution (Regulation and Control) Rules, 2000, responsibilities are vested with State Governments, District Magistrate, Police Commissioner, or any other officer not below the rank of Deputy Superintendent of Police, as per detail given below:
  - **i.** Restriction on the use of Loud Speakers/Public Address system.
  - **ii.** Restriction on the use of Horns, Sound emitting construction equipment and bursting of Fire crackers.
  - **iii.** Prohibition of continuance Music Sound or Noise.

Noise limits are notified under EPA Rules, 1986 and other provisions of Noise Rules, 2000 are listed below:

i. Noise limits for Automobiles (Free Field) at one meter in dB (A) at the Manufacturing Stage. Limits are attached as Annexure-I.
ii. Noise rules for Domestic Appliances and construction Equipment's at the manufacturing stage. Standards are attached as Annexure-II.
iii. Noise standards for Fire Crackers. Standards are attached as Annexure-III.
iv. Noise Limit for Generator sets run with Petrol or Kerosene. Standards are attached as Annexure-IV
v. Noise Limit for Generator Sets run with Diesel. Standards are attached as Annexure-V
vi. Noise limit for CNG and or LPG dual fuel/biofuel/dedicated generator sets. Standards are attached as Annexure-VI

2.2 Penal provision for violation of Noise Rules

- As per rule 7 (2), it is mentioned that Authority shall act on the complaint and take action against the violator in accordance with the provisions of these rules and any other law inforce.

- Noise Rules are defined in Environment (Protection) Act, 1986. Section 15 of EPA, 1986 refersto penalty and action to be taken against violators and same is mentioned below:

  Penalty for contravention of the provisions of the act and the rules, orders and directions –

  1. Whoever fails to comply with or contravenes any of the provisions of this **Act, or the rules made or orders or directions issued thereunder,** shall, in respect of each such failure or contravention, be punishable with imprisonment for a term which may extend to five years with fine which may **extend to one lakh rupees, or with both, and in case the failure or contravention continues, with additional fine which may extend to five thousand rupees** for every day during which such failure or contravention continues after the conviction for the first such failure or contravention.

  2. If the failure or contravention referred to in sub-section (1) continues beyond a period of one year after the date of conviction, the offender shall be punishable with imprisonment for a term which may extend to seven years.

3.0 SCALE OF COMPENSATION FOR VIOLATION OF NOISE RULES

- Source of noise pollution have been identified based on provisions mentioned in section 2.1.
- 10-25 % of cost of instrument has been considered as compensation for violations of provisions of noise rules and repeated violators to be imposed fine which has deterrent effect.
- Accordingly, compensation to be paid by the defaulter and action to be taken by authority for violations of Noise Rules by usage of equipment like Public Address System, Construction Equipment, Generator Sets and Music DJ system are recommended as per details given in Table 1.

Table 1: Enlistment of Violation of Noise Rules and their respective Scale of compensation.

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
1.	USE OF LOUD SPEAKERS / PUBLIC ADDRESS SYSTEM[1]	₹ 10,000	Seizure

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
	(Clause 5(1)- 5(2), 6(i, ii, iii and v)[1-5]		
2.	VIOLATION WRT GENERATOR SETS NORMS(Standards attached as Annexure –IV to VI)		
a)	DG sets more than 1000 KVA	₹ 1,00,000	Sealing of DG sets
b)	DG sets 62.5 to 1000 KVA	₹ 25,000	
c)	DG sets up to 62.5 KVA	₹ 10,000	
3.	VIOLATION OF USE OF SOUND EMITTING CONSTRUCTION EQUIPMENTS[6]	₹ 50,000	Seizure / Sealing of Equipment
4.	Bursting of Firecrackers beyond the prescribed time limit prescribed (Hon'ble Supreme Court and Clause 5A (2) and 6 (iv) [7-8]	₹ 1000	-

Note:

1. *Clause 5(1): A loud speaker or a public address system shall not be used except after obtaining written permission from the authority.*
2. *Clause 5(2): A loud speaker or a public address system or any sound producing instrument or a musical instrument or a sound amplifier shall not be used at night time except in closed premises for communication within, like auditoria, conference rooms, community halls, banquet halls or during a public emergency.*
3. *Clause 6 (i) Playing any music or uses any sound amplifiersin any place covered under the silence zone/area are prohibited.*
4. *Clause 6(ii): Beating a drum or tom-tom or blows a horn either musical or pressure, or trumpet or beats or sounds any instrumentin any place covered under the silence zone/area are prohibited.*
5. *Clause 6(iii): Exhibits any mimetic, musical or other performances of a nature to attract crowds in any place covered under the silence zone/area are prohibited.*
6. *Clause 5(A) (3): Sound emitting construction equipment shall not be used or operated during night time in residential areas and silence zones*
7. *Sound emitting fire crackers shall not be burst in silence zone or during night time in each zone;*
8. *As per directions of Hon'ble Supreme court, following time limits are prescribed for bursting fire crackers:*

Sl. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
	Diwali: 8pm to 10pm *Gurpurb: 4am to 5am and 9pm to 10pm* *New Year and Christmas: 11.55 P.M to 12.30 A.M* 9. *It may be noted that imposition of fine for notification of Rule 5A(1) falls within the purview of Motor Vehicle Rules, 2019*		

4.0 LIMITATION OF NOISE RULES WITH RESPECT TO LOUDSPEAKER

i. Existing standards for loud speaker defined under clause 5(4) of Noise Rules, 2000 states that Noise level at the boundary of the public place, where loudspeaker or public address system or any other noise source is being used shall not exceed 10 dB(A) above the ambient noise standards for the area or 75 dB(A) whichever is lower.

ii. In order to verify compliance, ambient noise monitoring is to be carried out for 16 hours (day time) and violation by specific source of noise can not be identified due to background noise. Further, as impact of the noise source; duration of which mostly varies from a few seconds to few minutes gets leveled when monitoring for long duration (16 hours) is carried out.

iii. Recently, CPCB has carried out demonstration of Sound limiters and it was found that sound limiter is not a full proof system and same can easily tamper with. It is difficult for authorities to set limits for sound limiter in absence of source standards for loudspeaker while granting permission for public address system.

iv. Source specific standards have been notified for firecrackers, Generator sets, construction equipments, vehicles etc. However, source specific standards for Loudspeakers and Public Address System (PAS) yet to be framed.

In view of (i-iv) above, it is suggested that source specific standards be framed for Loud speaker and Public Address System with specific usage type

5.0 RECOMMENDATIONS

1. Designated authorities defined as per clause 2 (c) of Noise Pollution (Regulation and Control) Rules, 2000 shall imposed penalty and take necessary action against the defaulters as per details given in Table 1.

2. The compensation to be paid shall be 02 times / 03 times the original fine for the second and third violation respectively and permission for installation / operation of the equipment shall be withdrawn thereafter.

Item No. 01 to 04 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 519/2016
WITH
Original Application No. 496/2018
(M.A. No. 1159/2018)
WITH
Original Application No. 196/2018
WITH
Original Application No. 197/2018

Hardeep Singh & Ors. Applicant(s)

Versus

SDMC & Ors. Respondent(s)

WITH

Akhand Bharat Morcha Applicant(s)

Versus

Union of India & Ors. Respondent(s)

Date of hearing: 15.11.2019
Date of uploading of order: 20.11.2019

CORAM: **HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON**
HON'BLE MR. JUSTICE S.P WANGDI, JUDICIAL MEMBER
HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER
HON'BLE MR. SAIBAL DASGUPTA, EXPERT MEMBER

ORDER

1. This order may be read in continuation of order dated 01.08.2019. The subject matter for consideration is the failure of the statutory authorities in Delhi in controlling noise pollution as per statutory mandate of Noise Pollution (Regulation and Control) Rules, 2000 (Noise Rules). The matter has been dealt with earlier by this Tribunal in the light of judgment of Delhi High Court in *Free Legal Aid Cell Vs.*

Government of NCT of Delhi[1] and of the Hon'ble Supreme Court in *In Re: Noise Pollution - Implementation of the Laws for restricting use of loud speakers and high volume producing sound systems.* [2]

2. The grievance of the Applicants is that in spite of the above orders, unsatisfactory state of affairs continues. By use of DJ systems, music systems, public address systems etc. during weddings or other functions, noise was being created at odd hours adversely affecting the health of the citizens. Reference is made to the order of this Tribunal dated 18.12.2012 in *Supreme Court Group Housing Vs. All India Panchayat Parishad, Original Application No. 34/2011,* directing establishment of call centers, drawing up of Standard Operating Procedure (SOP) regarding control of noise pollution and banning the use of generator sets of capacity of 5 KVA and above in the residential areas between 10 pm to 6 am, apart from other directions.

3. The steps taken pursuant to the earlier orders of this Tribunal, included the issuance of orders by the Commissioner of Police, DCP (Traffic) and SDM (East Delhi). Action plans were placed before the Tribunal for setting up of call centers and drawing up of detailed SOP for controlling noise pollution. The Ministry of Environment, Forest and Climate Change (MoEF&CC) amended the Noise Rules on 10.01.2010 prohibiting loud speakers, public address systems at night time except in closed premises. The DCP (Traffic) filed a status report indicating the number of challans etc.

4. In *Original Application No. 519 of 2016*, the Tribunal, vide order dated 27.09.2018, held that steps taken were hardly effective on the

[1] AIR 2001 Delhi 455
[2] (2005) 5 SCC 733

ground. The problem of noise pollution continued. Directions in the order of the Hon'ble Supreme court in *In Re: Noise Pollution - Implementation of the Laws for restricting use of loud speakers and high volume producing sound systems*[3] had not been fully complied with. Accordingly, the Tribunal directed the Chief Secretary, Delhi, the Commissioner of Police, Delhi and the Delhi Pollution Control Committee (DPCC) to take steps for enforcing the directions of the Hon'ble Supreme Court and the Noise Rules with regard to control of use of loud speakers, control of vehicular noise and creation of awareness. The Commissioner of Police was to nominate a DCP and the Chief Secretary was to nominate a SDM who were to meet once in every week to take stock of the situation. They were to set up an exclusive website and dedicated helpline, apart from other steps. Report of compliance was to be filed.

5. In *Original Application. No. 496/2018, Original Application No. 196/2018* and *Original Applicant No. 197/2018* also, similar grievance against non-enforcement of the Noise Rules in Delhi have been raised. Vide order dated 10.08.2018 in O.A No. 496/2018, joint inspection was directed to be conducted and report was directed to be furnished. The report dated 31.10.2018 was considered on 14.02.2019 along with O.A No. 196/2018 and O.A No. 197/2018 and directions were issued to take remedial action. The Tribunal also directed the presence of DCP (East), DCP (Shahdara) and DCP (South) with action plans. O.A No. 496/ 2018, O.A No. 196/2018 and O.A No. 197/2018 were again taken up on 14.03.2019, along with O.A 519/2016 and after interaction with the officers who are to enforce the Noise Rules, further directions were issued to identify and map

[3] Supra at 2 and (2005) 5 SCC 728

hotspots, install noise measuring device on the devices causing high noise level, conduct surveillance and monitoring and conduct awareness and coordination with RWAs. The Commissioner of Police, Delhi was also to monitor and furnish a report to this Tribunal.

6. Noise is an underestimated threat that can cause a number of short- and long-term health problems. It is increasingly becoming a potential hazard to health, physically and psychologically, and affects the general well-being of an individual. [4]Excessive noise interferes with people's daily activities at school, at work, at home, and during leisure time. It can disturb sleep, cause cardiovascular and psychophysiological effects, reduce performance and provoke annoyance responses and changes in social behavior.[5] Environmental noise exposure is responsible for a range of health effects, including increased risk of ischaemic heart disease as well as sleep disturbance, cognitive impairment among children, annoyance, stress-related mental health risks, and tinnitus.[6] According to a 2007 WHO estimate, almost six per cent people in India suffer from hearing loss.[7] WHO says that exposure to excessive noise is one of the causes for loss of hearing.[8] Delhi was the second worst city for noise pollution, followed by Cairo, Mumbai, Istanbul and Beijing.[9]Residents of Vienna, Austria have the least amount of hearing loss proportionate to their age whilst citizens of Delhi, India have the most.[10]

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[4]Community Noise Pollution in Urban India: Need for Public Health Action,https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3968587/
[5] http://www.euro.who.int/en/health-topics/environment-and-health/noise/noise
[6] https://www.who.int/sustainable-development/transport/health-risks/noise/en/
[7]https://www.who.int/healthinfo/statistics/bod_hearingloss.pdf,https://www.downtoearth.org.in/news/health/not-just-air-level-of-noise-pollution-in-delhi-is-also-deadly-study-57273
[8] https://www.who.int/en/news-room/fact-sheets/detail/deafness-and-hearing-loss
[9]https://www.weforum.org/agenda/2017/03/these-are-the-cities-with-the-worst-noise-pollution/
[10]https://www.mimi.io/en/blog/2017/3/8/worldwide-hearing-index-2017, https://www.theguardian.com/cities/2018/mar/08/where-world-noisiest-city

7. In *Re: Ramlila Maidan Incident*[11], *it was observed:*

> *".....(301). Deprivation of sleep has tumultuous adverse effects. It causes a stir and disturbs the quiet and peach of an individual's physical state. A natural process which is inherent in human being if disturbed obviously affects basic life. It is for this reason that if a person is deprived of sleep, the effect thereof, is treated to be torturous. To take away the right of natural rest is also therefore violation of a human right. It becomes a violation of a fundamental right when it is disturbed intentionally, unlawfully and for no justification. ....(318). Thus, it is evident that right of privacy and the right to sleep have always been treated to be a fundamental right like a right to breath, to eat, to drink, to blink, etc. ....(327). An individual is entitled to sleep as comfortably and as freely as e breathes. Sleep is essential for a human being to maintain the delicate balance of health necessary for its very existence and survival. Sleep is, therefore, a fundamental and basic requirement without which the existence of life itself would be in peril. To disturb sleep, therefore, would amount to torture which is now accepted as a violation of human right. It would be similar to a third-degree method which at times is sought to be justified as a necessary police action to extract the truth out of an accused involved in heinous and cold-blooded crimes. It is also a device adopted during warfare where prisoners of war and those involved in espionage are subjected to treatments depriving them of normal sleep. ....."*

8. In the matter of Farhd K. Wadia vs. Union of India & Ors.[12], the Hon'ble Supreme Court observed:

> *"24. This Court has also taken suo motu cognizance as regards noise pollution. It passed various orders from time to time in noise pollution (I), In re, Noise Pollution (II), In re, Noise Pollution (III), In re and Noise Pollution (IV), In re. A detailed judgment was rendered by a Division Bench of this Court in the said writ petition, which has since been reported in Noise Pollution (V), In re. Several guidelines had been issued therein by this Court in exercise of its jurisdiction under Articles 141 and 142 of the Constitution of India. Therein, the decision of the Calcutta High Court in Om Birangana Religious Society v. State has been taken note of. As regards loudspeakers and amplifiers, it was directed: "171. Loudspeakers and amplifiers or other equipment or gadgets which produce offending noise once detected as violating the law should* be liable to be seized and confiscated by making provision in the law in that behalf."

9. It is thus clear that noise has auditory as well as non-auditory effects on sleep, hearing, communication, mental and physical health and may even lead to madness. It can disturb work, rest, sleep, communication and damage the hearing and cause psychological and

[11] (2012) 5 SCC 1
[12] (2009) 2 SCC 442

pathological reactions. Long noise exposure can cause irreversible loss of hearing. The Rules were framed in view of increasing ambient noise levels and noticing its adverse effects on the health. The Rules categorized areas as industrial, commercial, residential (for extent of noise level) and silence zones (to maintain silence near hospitals, educational institutions and courts). The Hon'ble Supreme Court laid down that noise pollution above the specified level affects right to life. Silence was required to be maintained between 10:00 pm to 06:00 am, except for emergencies. It was also directed that provision for seizure and confiscation of equipments used for creating noise should be made.

10. Taking note of the judgments of the Hon'ble Supreme Court in *In Re: Noise Pollution - Implementation of the Laws for restricting use of loud speakers and high volume producing sound systems*[13], *Re: Ramlila Maidan Incident, supra,* and *Farhd K. Wadia vs. Union of India & Ors., supra,* and the rules on the subjects, the Tribunal further directed that requisite action be taken including setting up of a website and helpline, The concerned authorities were also required to acquire noise monitoring devices for effective monitoring.

11. The matter was thereafter reviewed on 01.08.2019 in the light of the earlier proceedings and report dated 15.04.2019 furnished by the Special Commissioner of Police (Operation), Delhi and further report dated 30.06.2019 filed by the DCP (Control Room).

12. The Tribunal heard the DCP (East), DCP (Shahadra) and DCP (South) who were present in person and furnished their action taken reports dated 01.07.2019 on the subject of coordination with the RWAs,

[13] (2005) 5 SCC 733

Schools and enforcement action. The revised action plan filed by the Commissioner of Police on 28.06.2019 was also considered. The Tribunal recorded its dissatisfaction about the progress in terms of number of monitoring stations, procurement of necessary equipments and compliance of Rule 4(3) of the Rules on the subject of publishing of data with regard to noise pollution and abatement measures. The Tribunal also considered the report filed by the CPCB in O.A. No. 681/2018 with regard to the noise control measures throughout India to the effect that 46 metropolitan cities in 7 States and UTs were identified for carrying out noise mapping. 10 States / UTs had prepared action plans for setting up of National Ambient Noise Monitoring Network. The States of Tripura and West Bengal had made policies for mandatory use of sound systems which was required to be adopted by other States.

13. The Tribunal held that apart from taking other steps, compensation regime was required to be developed.

14. Accordingly following directions were issued:-

> *"(a) Further steps for meaningful enforcement of Noise Rules be taken by the DPCC and concerned authorities.*
>
> *(b) Delhi Government may issue appropriate notification on the pattern of Notification issue by the Tripura Government for mandatory use of sound limiters in all sound systems[14]. Delhi Government may address the observations of CPCB finding deficiency in its action plan with regard to training for use of measurement devices and developing robust protocol for action against defaulters[15]. A compliance report be filed.*
>
> *(c) Sound measuring devices as sought by the DCP East, Shahdara and South Districts be made*

[14] See para 9 above
[15] See para 12 above

available by the DCP logistics[16]. Let the Special CP (Traffic), in-charge of the Apex Committee, file an affidavit about the methodology for assessing working of the Committees which are being overseen by the Apex Committee which may include compliance of directions issued to the DCP Logistics.

(d) DPCC may undertake gap analysis and set up sufficient number of monitoring stations and acquire requisite number of equipment[17], compile and publish statistical data relating to noise pollution[18], prescribe interim scale of compensation pending finalization of the same by CPCB[19]. Compliance report may be filed by DPCC."

15. We have reviewed the progress on the subject in light of the action taken report filed by Special Commissioner of Police (Traffic) of Delhi filed on 31.10.2019, report dated 11.11.2019 filed by the DPCC and the report dated 14.11.2019 filed by the CPCB.

16. Compliance status may be noted as follows. With regard to direction Nos. (a) and (d), there is hardly any further progress even after three months in the report of Special Commissioner of Police (Traffic) Delhi. Requisite equipments have not been procured. Monitoring stations have not been set up in terms in observation of paragraph 9 of the earlier order. Only report is that tender process is going on. Locations have been identified. Technical specification are in the process of being finalized. Further progress is that a workshop was organized on 16.04.2019 (which is prior even to the earlier order). Another workshop was scheduled for 13.11.2019. Template has been prepared.

17. Likewise, progress by the DPCC can hardly be held to be adequate. We are sorry to record that DPCC has been wholly amiss in

[16] See para 7 above
[17] See para 9 & 12 above
[18] See para 11 above
[19] See para 13 above

performance of its duties. There is no satisfactory data about the action for violations though violations are rampant and widespread which is failure on the part of all the concerned statutory authorities entrusted with the enforcement of law. Dr. M.P. George representing DPCC has made a statement that the requisite equipment will be procured within 60 days and monitoring stations will be set up within the said time. In view of the long and continued failures in the past, it becomes necessary to direct that if this is not done even by 31.01.2020, Member Secretary, DPCC and Dr. M.P. George will not be entitled to draw salary till the direction of this Tribunal is complied with.

18. Special Commissioner of Police, has stated in para 4 of the status report that the requisite equipments will be required by March, 2020. Accordingly, the Special Commissioner of Police and Deputy Commissioner of Police (Provisioning and Logistics) will not be entitled to draw salary, if there is non compliance even upto 01.04.2020, till compliance.

19. With regard to (b), it is stated that Notification of Delhi Government is ready and will be issued within one week from today. We hope that the statements will be faithfully complied with, failing which appropriate coercive action may have to be taken. Let the Chief Secretary, Govt. of Delhi coordinate this matter.

20. Compliance of directions with regard to training for use of the devices, and robust protocol for action against defaulters may be ensured. As already directed vide order dated 27.09.2018, a dedicated telephone line with recording facility and a dedicated online grievance redressal portal for redressal of noise pollution related

grievances be developed by Delhi Police and public awareness in this regard created. A minimum grievance redressal timeframe be fixed and monitored by a supervisory authority. Action taken report may be accordingly filed before the next date.

21. We are informed that there are 2000 Eco-clubs in schools/ colleges. Awareness programme may be coordinated in such a way that at least one programme on the subject is held once a month in all such institutions. The present level of awareness activities by Department of Environment, Govt. of NCT Delhi, is inadequate in terms of quality and quantity. It needs to be properly planned and coordinated. Yearly action plan covering different thematic areas of environmental problems needs to be clearly identified, awareness activities planned and monitored. It would be appropriate if target groups are properly identified, logistic and personnel earmarked and action taken is monitored. This may be ensured jointly by the Department of Environment, DPCC and the Special Commissioner of Police in coordination with the Education Department of Delhi and a compliance report furnished by the DPCC before the next by e-mail at judicial-ngt@gov.in.

22. Report of CPCB is that compensation for violation by using equipments should be 10%-25% of cost of such equipment. Compensation suggested as follows:-

"

S. No.	Violation of Noise Rules	Compensation (in Rupees) to be paid by defaulter	Action to be taken by designated authority
1.	Use of loud speakers/ public address	Rs. 10,000	Seizure

22

	system (clause 5(1)-5(2), 6(i,ii,iii&iv)		
2.	Violation WRT Generator Sets Norms (standards attached as annexure – IV to VI)		
a)	DG sets more than 1000 KVA	Rs. 1,00,000/-	Sealing of DG sets
b)	DG sets 62.5 to 1000 KVA	Rs. 25,000/-	
c)	DG sets upto 62.5 KVA	Rs. 10,000/-	
3.	Violation of use of sound emitting construction equipment	Rs. 50,000/-	Seizure / Sealing of equipment"
4.	Bursting of Firecrackers beyond the prescribed time limit priscribed (Hon'ble Supreme Court and Clause 5A (2) and 6 (iv)	Rs. 1000/-	

23. We are of the view that compensation for bursting of crackers at serial No. 4 needs to be suitably revised and needs to be different for different classes of defaulters and frequencies of default. Further, the CPCB has suggested that compensation should be 2-3 times for second and third violations accompanied by withdrawal of permission for installation/operation for their equipment.

24. The CPCB may also lay down stringent compensation for tampering with the sound limiters to ensure that the same is not restored to. Let compliance reports be filed by CPCB, Department of Environment, DPCC and Special Commissioner of Police, Delhi by 31.03.2020 by email at judicial-ngt@gov.in.

List again on 14.04.2020.

Adarsh Kumar Goel, CP

S.P Wangdi, JM

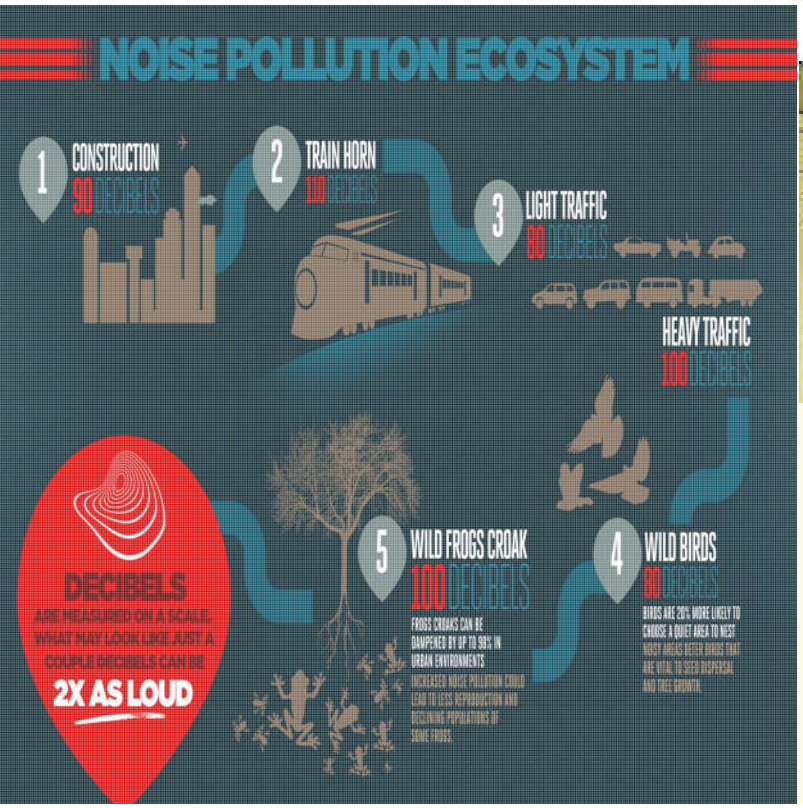
K. Ramakrishnan, JM

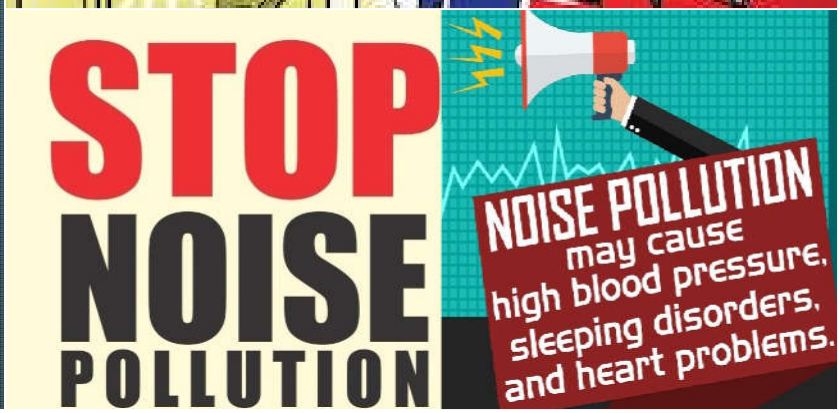
Dr. Nagin Nanda, EM

Saibal Dasgupta, EM

November 20, 2019
Original Application No. 519/2016
and other connected matters

NATIONAL AMBIENT NOISE MONITORING NETWORK:
NANMN/05/2017





STATUS OF AMBIENT NOISE LEVEL IN INDIA 2017

CENTRAL POLLUTION CONTROL BOARD

PARIVESH BHAWAN, EAST ARJUN NAGAR, DELHI - 110032

S.P. Singh Parihar, I.A.S
Chairman
एस. पी. सिंह परिहार भा.प्र.से.
अध्यक्ष

सत्यमेव जयते

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

FOREWORD

Noise pollution refers to sounds in the environment that are caused by human and that threaten the health or welfare of human or animal inhabitants. Under section 2(a) of Air (Prevention and Control of Pollution) Act, 1981 noise is defined as air pollutant. Central Pollution Control Board (CPCB) in association with State Pollution Control Boards has laid down National Ambient Noise Monitoring Network in 07 metropolitan cities and installed 70 no. of Noise Monitoring System in Mumbai, Delhi, Kolkata, Chennai, Bangalore, Lucknow and Hyderabad (10 stations in each) under Phase-I and Phase-II of the programme.

As per section 4 (2) of Noise Pollution (Regulation and Control) Rules, 2000 Responsibilities are vested with State Governments, District Magistrate, Police Commissioner, or any other officer not below the rank of Deputy Superintendent of Police for the enforcement of noise pollution control measures. The respective State Pollution Control Boards or Pollution Control Committees in consultation with the Central Pollution Control Board shall collect, compile and publish technical and statistical data relating to noise pollution and measures devised for its effective prevention, control and abatement.

Real Time Ambient Noise level data is available on CPCB's website (cpcb.nic.in) and also at its web portal i.e cpcbnoise.com. For further dissemination is considered appropriate to bring out a document presenting collective sound level data of all 70 noise monitoring stations. This document provides status of real time ambient noise monitoring level during the year 2017. It also includes information on instrumentation involved in noise measurement.

As per this report Delhi happens to be the Noisiest City followed by Kolkata, Bengaluru and Chennai based on the percentage of exceedance and number of locations violating norms for noise level in a City.

The information has been collated by Sh. Vishal Gandhi, Scientist 'D', Sh. Ramakrishna Chinthapalli, JRF, Sh. Jagdeep Kumar, SA-I under the guidance of Sh. Suneel Dave, Scientist 'E'.

I hope this document will be useful to all concerned in the field of noise control.

Date: 23rd, August 2018

(S.P.S. PARIHAR)

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Central Pollution Control Board acknowledges the efforts and sincere support in successfull implementation & management of National Ambient Noise Monitoring Network(NANMN) programme by all concerned zonal offices (Bengaluru, Kolkata, Vadodara & Lucknow) and SPCBs (Karnataka, West bengal, Maharashtra, Delhi, U.P, Tamilnadu& Telangana).

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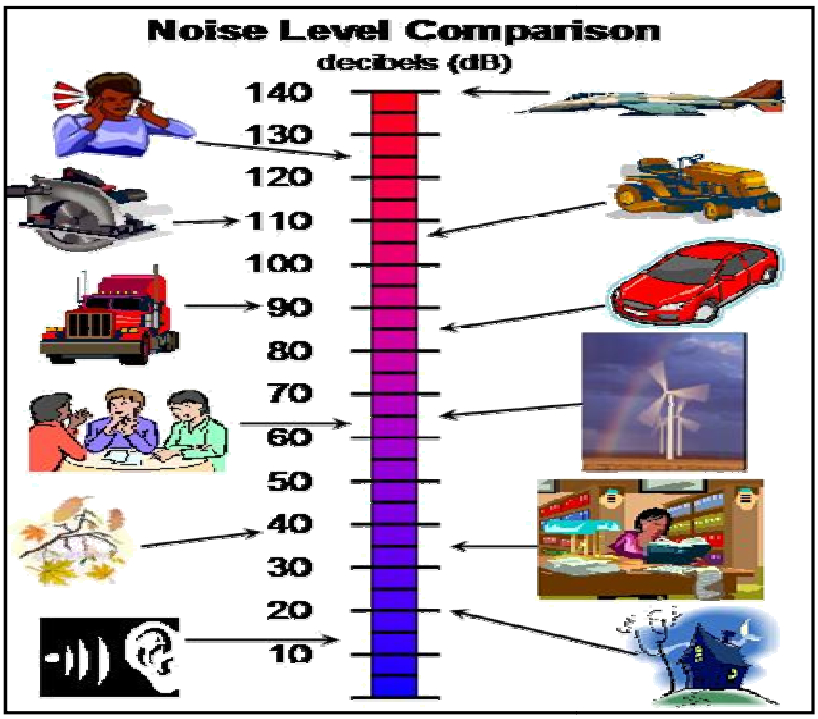
1. INTRODUCTION

Sound is such a common part of everyday life that we rarely appreciate all of its functions. It provides enjoy-able experiences such as listening to music or to the singing of birds. It can alert or warn us –for example with the ringing of a telephone, or a wailing siren. Sound can be heard underwater too, just as in air. Whales are familiar with this and communicate with one another. Dolphins too have complex system of communication.



A sound source radiates power and this result in a sound pressure. Sound power is the cause. Sound pressure is the effect. An electric heater radiates heat into a room and temperature is the effect. Temperature is also the physical quantity that makes us feel hot or cold. The temperature in the room is obviously dependent on the room itself, the insulation, and whether other sources of heat are present. The relationship between sound power and sound pressure is similar. What we hear is sound pressure but it is caused by the sound power emitted from the source. The sound pressure that we hear, or measure with a microphone is dependent on the distance from the source and acoustic environment (or sound field) in which sound waves are present. This is in turn depends on the size of the room and the sound absorption of the surfaces.Sound may be defined as any pressure variation (in air, water or other medium) that human ear can detect. If variation in atmospheric pressure occur more rapidly i.e at least 20 times a second, then it can be heard and hence are called sound. Sound travels as small waves of pressure through air at a speed of about

740 miles per hour and what we hear are sound waves provided by vibrations of air molecules.

The word "noise" descends from the Latin word "nausea," meaning seasickness, or, more generally, any similar sensation of disgust, annoyance, or discomfort.

Noise is usually defined as unwanted sound pollutant which produces undesirable physiological and psychological effects in an individual, by interfering with one's social activities like work, rest, recreation, sleep etc. A sound might be unwanted because it is:

- Loud
- Unpleasant or annoying
- Intrusive or distracting

Usually the sound of a violin is referred to as music - is something pleasing. Depending on other factors, the sound may be perceived as noise.

Noise perception is subjective. Factors such as the magnitude, characteristics, duration, and time of occurrence may affect one's subjective impression of the noise.Noise is also considered a mixture of many different sound frequencies at high decibel levels.

Noise pollution refers to sounds in the environment that are caused by humans and that threaten the health or welfare of human or animal inhabitants.

The most common source of noise pollution by far, the one that affects the most people on the planet is motor vehicles. Aircraft and industrial machinery are also major sources. Additional noise pollution is contributed by office machines, sirens, power tools, and other equipment.

The response of ear to sound is very dependent on the frequency content of the sound. The ear has a peak response around 2.5 – 3 kHz and has a relatively low response at low frequencies.

2. OBJECTIVE OF NOISE MONITORING

As per section 5.2.8 (IV) of National Environment Policy (NEP)-2006, Ambient Noise included as environmental quality parameter and to be monitored in specified urban areas regularly. Therefore, Central Pollution Control Board developed National Ambient Noise Monitoring Network Programme which includes installation of Noise Monitoring Stations all over India, which in turn will provide necessary information for decision makers.

The National Ambient Noise Monitoring Network comprising 70 Noise Monitoring Stations spread over 07 metropolitan citieswhich include Bangalore,Chennai,Delhi,Hyderabad, Kolkata,Lucknowand Mumbai(10 stations in each city). The network was developed in two phase. In first phase, 35 stations were installed in above said seven cities (05 each) during 2011 and another 35 stations were added in same seven cities (05 each) in second phase during the year 2015. The continuous monitoring was conducted at locations mentioned in **Table-1**.

Table-1 Detail of monitoringlocations as below

City	Monitoring Point	Category
Delhi	Dilshad Garden	Silence
	CPCB	Commercial
	DCE	Silence
	ITO	Commercial
	NSIT	Silence
	Civil Lines	Commercial Zone
	R.K. Puram	Residential Zone
	Anand Vihar	Commercial Zone
	Mandir Marg	Silence Zone
	Punjabi Bagh	Residential Zone
Bangalore	Parisar Bhawan	Commercial
	Peenya	Industrial
	Nisarga bhawan	Residential
	Marathali	Commercial
	BTM	Residential
	Yeshwantpur	Commercial Zone
	R.V.C.E	Silence Zone
	Whitefield	Industrial Zone
	Dolmur	Residential Zone
	Nimhans	Silence Zone
Chennai	Eye Hosp.	Silence
	T. Nagar	Commercial
	Perambur	Commercial
	Guindy	Industrial
	Triplicane	Residential
	Pallikarnai	Commercial Zone
	Velachery	Residential Zone
	Washermanpet	Commercial Zone
	Anna Nagar	Silence Zone
	Sowcarpet	Residential Zone
	Abids	Commercial
	TSPCB	Commercial
	Jeedimetla	Industrial
	Zoo	Silence
	Julee Hills	Residential

City	Monitoring Point	Category
Hyderabad	Tarnaka	Residential Zone
	Gaddapothram	Industrial Zone
	Gachibowli	Silence Zone
	Paradise	Commercial Zone
	Kukatpalli	Commercial Zone
Kolkata	SSKM Hosp.	Silence
	Gole Park	Industrial
	WBPCB HQ	Commercial
	Patauli	Residential
	New Market	Commercial
Kolkata	Birati N.	Residential Zone
	RG Kaur	Silence Zone
	Tollygunge	Commercial Zone
	Bag Bazar	Residential Zone
	Tartala	Industrial Zone
Lucknow	Talkatora	Industrial
	Hazrat ganj	Commercial
	P.G.I.	Silence
	Indira Nagar	Residential
	Gomti nagar	Silence
	Chinhat	Industrial Zone
	Vibhuti Khand	Residential Zone
	IT College	Silence Zone
	CCS Airport	Commercial Zone
	Aligunj	Commercial Zone
Mumbai	Thane	Commercial
	Vashi Hsp.	Silence
	Ashp	Silence
	Bandra	Commercial
	MPCB HQ	Commercial
	M&M Kandivali	Industrial Zone
	Ambassador Hotel	Commercial Zone
	L&T Powai	Industrial Zone
	Pepsico Chembur	Residential Zone
	Bisleri Andheri	Industrial Zone

The sound level data fetched from Real time Noise Monitoring Station was compared with Ambient Noise Standards. The extent of violation with respect to prescribed standards was also assessed. The main objective is to find collective significant factor and its collective impacts as to help the concern authorities and planners for decision making at pro-active stage. The status of noise pollution be communicated and placed in public domain for mass awareness.

3. METHODOLOGY

3.1 INSTRUMENTATION

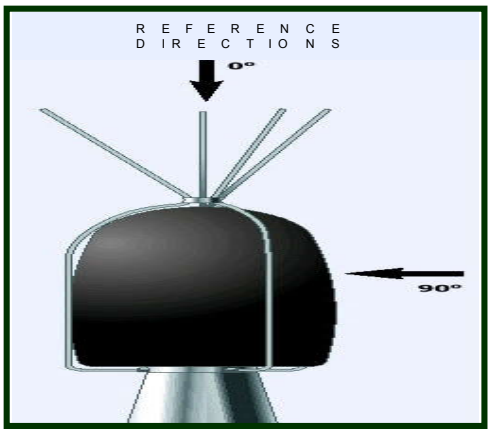
Sound Level Meter is an instrument designed to respond in approximately the same way as the human ear and to give objective, reproducible measurements of sound pressure level. Sound level meter consist of a microphone, a processing unit and read-out unit.The microphone converts the sound signal to an equivalent electrical signal. There are many type of microphone like condenser microphone, electrets condenser, dynamic microphone, carbon microphone, piezoelectric microphone, fiber optic microphone, which is used for various purposes. The most suitable type of microphone for sound level meters is the condenser microphone, which combines precision with stability and reliability. The electrical signal produced by the microphone is quite small and so it is amplified by a preamplifier before being processed.

Noise Monitoring System (NMS) is used for measuring real time noise since large number of stations can be managed easily using this technology. It comprises of microphone, data logger and mounting stand. The details of system are mentioned in subsequent section.

3.2 NOISE MONITORING SYSTEM

Noise Monitoring System (NMS) is used for measuring real time noise since large number of stations can be managed easily using this technology. NMSs are optimized for outdoor use with small, custom designed enclosure, and also designed for use in all climatic environments. NMS consist of a weatherproof cabinet containing a noise level analyzer and a battery, a communication device for transmitting data to receiving station, a back plate and an outdoor microphone (for measuring sound) all of which can be mounted on a mast.

3.2.1 OUTDOOR MICROPHONE



The outdoor microphone is a major factor in ensuring that the NMS complies with IEC 61672 Class 1 requirements, with either 0 or 90° reference direction. For permanent outdoor installation, in community such as noise or traffic noise monitoring systems, it has built-in weighting, ±20 dB amplifier (for shifting the dynamic range of up or down by 20 dB) and electrostatic actuator for complete check of system functionality. The microphone is used for permanent outdoor installation and for community noise or traffic noise monitoring systems. It has electrostatic actuator for complete check of system functionality for excellent performance in adverse conditions

It has protectors for;

- Foam cover against wind and dust protection
- Birds protector
- Humidity protector

3.2.2 NOISE PROCESSOR AND DATA LOGGER

High quality microphone connected to an advanced acquisition signal processing unit, completed with an electronic measurement and processed-data storage unit, provided as well with an integrated GPRS modem. It allows the connection of one Outdoor Microphone Model 41CN. The Noise Processor 2000NP receives and digitizes, the output signal generated by the microphone, performing “A” and “C” weighting. The system computes acoustic parameters “A” and “C” weighting (Fast and Slow).

Remote Automatic Data Acquisition and Transmission Unit, tele-programmable; total compact are mounted in a heavy duty Weatherproof Polypropylene housing with IP-67 protection.

4.0 ACT AND RULES

4.1 AIR ACT

Under section 2(a) of Air (Prevention and Control of Pollution) Act, 1981 noise is defined as air pollutant

> “Air pollutant" means any solid, liquid or gaseous substance [(including noise)] present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.”

Increasing ambient noise level in public places from various sources, inter-alia, industry activity, construction activity, generators sets, loud speakers, public address systems, music systems, vehicular horns and other mechanical devices have deleterious effects on human health and the psychological well being of the people. Therefore, it is considered necessary

to regulate and control of noise producing and generating sources with the objective of maintaining the ambient air quality standards in respect of noise.

4.2 NOISE RULES

Central Government notified the Noise Pollution (Regulation and Control) Rules, 2000 as it is published in the Gazette of India, Extraordinary, Part-II –section 3(ii), vide S.O 123 (E) dated 14.2.2000. In reference to abovementioned rules following responsibilities are vested with State Governments, District Magistrate, Police Commissioner, or any other officer not below the rank of Deputy Superintendent of Police:

1. Enforcement of Noise Pollution control measures and the due compliance of ambient air quality standards in respect of noise.
2. Restriction on the use of Loud Speakers/Public Address system.
3. Restriction on the use of Horns, Sound emitting construction equipment and bursting of Fire crackers.
4. Prohibition of continuance Music Sound or Noise.
5. Authority shall act on the complaint and take action against the violator in accordance with the provisions of rules.
6. Disallowing sound producing instrument after 10 p.m to 6 a.m except in closed premises.
7. State Government may permit loud speakers or public address system in night hours (between 10.00 p.m. to 12.00 midnight not exceeding 15 days in year.

Area Code	Category of Area/ Zone	Limit in dB(A) Leq*	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000.

Note:

1. **Day time shall mean from 6 AM to 10 PM**
2. **Night time shall mean from 10 PM to 6 AM**
3. **Silence Zone is defined as areas up to 100 meters around such premises as hospitals, educational institutes and courts. The Silence Zones are to be declared by competent authority.**
4. **Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.**

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A “decibel” is a unit in which noise is measured.
“A”, in dB (A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
Leq: It is energy mean of the noise level over a specific period.

5. RESULTS & OBSERVATIONS

As mentioned earlier, Real Time Ambient Noise Monitoring Stations were installed in **70** locations in **07** metropolitan cities (**Bengaluru, Chennai, Delhi, Hyderabad, Kolkata, Lucknow and Mumbai** (10 stations in each)). The stations were installed as per the categorization of Ambient Noise standards **(Silence, Residential, Commercial and Industrial)**. The sound level data for the year 2017 of each city was compiled and processed for interpretation on daily, monthly and yearly basis.

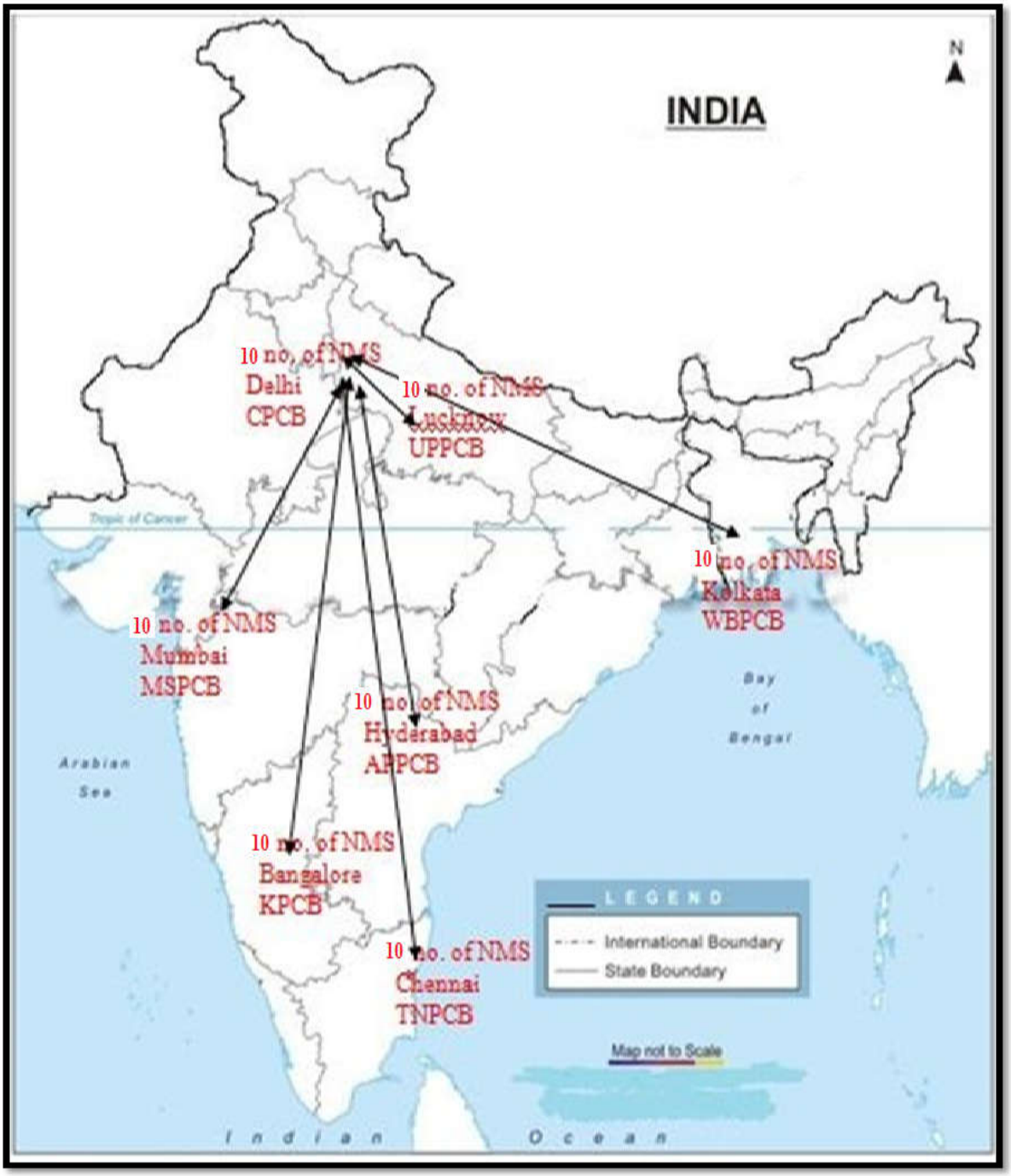


Figure 1: Map depicting monitoring network

6. AMBIENT NOISE MONITORING OF BENGALURU

Bangalore, officially known as Bengaluru, the capital of the Indian state of Karnataka, is located at 12.9667° N, 77.5667° E and lies in the Southeastern region in the Deccan Plateau. Bengaluru is spread over an area of 741 sq. kilometers. Current Population of Bengaluru in 2014 is 10,178,146 as per census-2011. In Bengaluru, five monitoring stations are installed and details are depicted in Table 2 and Figure2.

Table 2: Monitoring locations of Bengaluru

Sl. No.	Station location	Category	Latitude	Longitude
1.	Parisar Bhawan	Commercial Zone	12º58' 32.18" N	77º36' 12.38" E
2.	Peeniya	Industrial Zone	13º1' 4.28" N	77º30' 11.45" E
3.	Nisarga bhawan	Residential Zone	12º59' 0.54" N	77º35' 40.15" E
4.	Marathali	Commercial Zone	12º54' 45.45" N	77º34' 34.58" E
5.	BTM	Residential Zone	12º54' 30.36" N	77º35' 10.96" E
6.	Yeshwantpur	Commercial Zone	13º1' 5.04" N	77º33' 28.13" E
7.	R.V.C.E	Silence Zone	12º55' 23.15" N	77º29' 58.5" E
8.	Whitefield	Industrial Zone	12º58' 38.47" N	77º45' 5.18" E
9.	Dolmur	Residential Zone	12º57' 48.86" N	77º38' 17.78" E
10.	Nimhans	Silence Zone	12º56' 15.27" N	77º35' 32.95" E

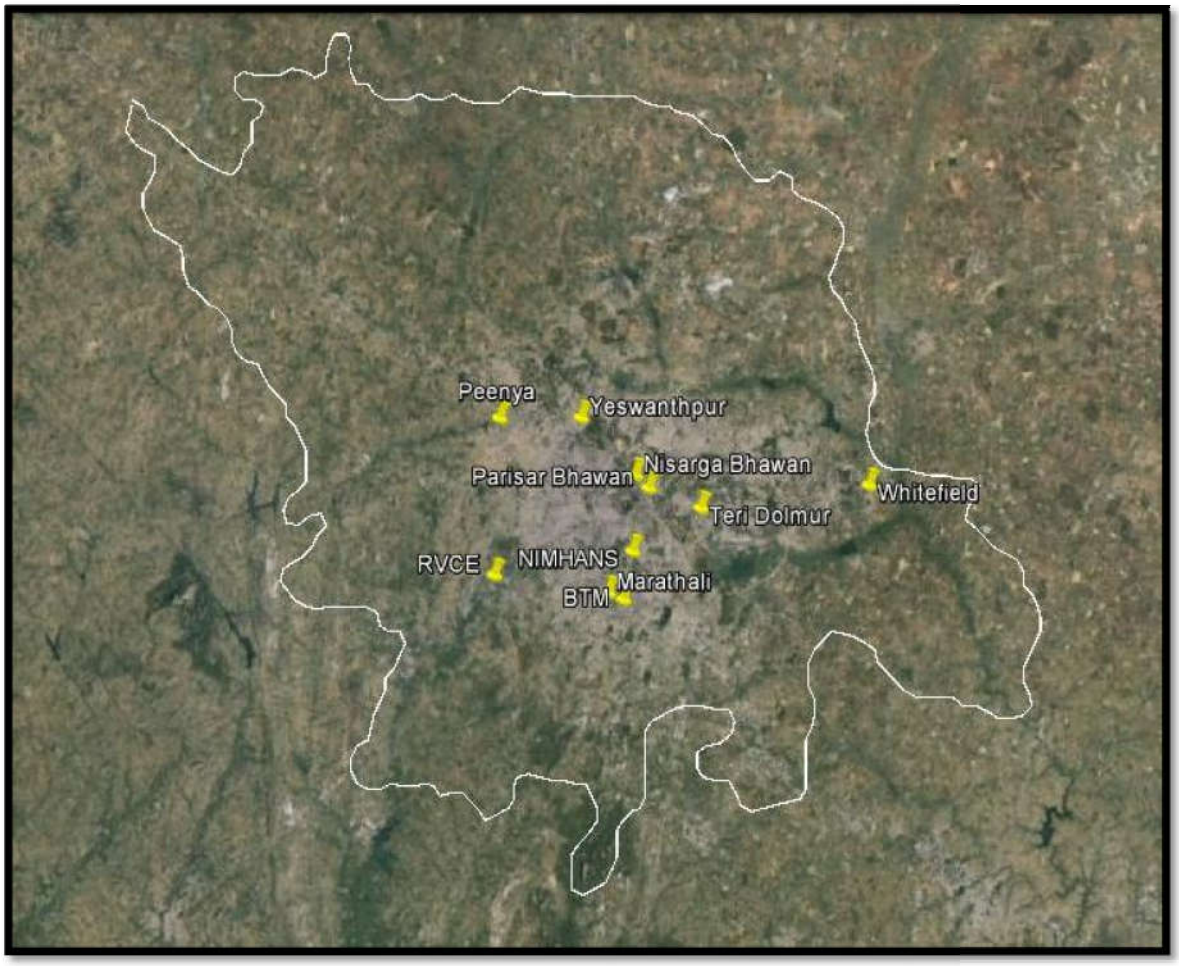


Figure2: Satellite Map depicts the monitoring locations of Bengaluru

6.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Bengaluru has been carried out at 10 locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned Table-1 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in Table-3 and Table-4. Table 5 and 6 depicts the frequency distribution data for the year 2017. Graphical representation of each station for the year 2016 is shown in Figures-3 to 12.

Table-3: Statistical behavior of sound level data of first 05 stations for the year 2017

Stations	BTM (R)		Marathali (C)		NIMHANS (S)		Nisarga Bhawan (R)		Parisar Bhawan (C)	
Standard	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	55	45	65	55	50	40	55	45	65	55
No of Exceedence	365	365	29	125	339	363	228	365	329	365
No of Observations	365	365	347	341	360	363	365	365	364	365
Percentage of Exceedence	100	100	8	37	94	100	62	100	90	100
Max	72	73	78	75	69	70	65	56	70	67
Min	60	59	42	40	41	40	53	46	62	57
Median	65	65	54	53	60	56	55	50	67	60
L10	69	69	63	61	64	62	57	52	68	63
L50	65	65	54	53	60	56	55	50	67	60
L90	62	62	47	45	53	53	54	48	65	58
Note: All values are in Leq dB (A)										

Table-4: Statistical behavior of sound level data of remaining 05 stations for the year 2017

Stations	Peeniya (I)		RVCE (S)		Teri Dolmur(R)		White Field (I)		Yashwantpur(C)	
Standard	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75	70	50	40	55	45	75	70	65	55
No of Exceedence	0	0	365	365	362	361	0	3	363	363
No of Observations	354	364	365	365	362	361	359	361	364	363
Percentage of Exceedence	0	0	100	100	100	100	0	1	100	100
Max	74	69	65	60	71	69	72	73	75	69
Min	54	51	55	52	58	51	62	50	64	58
Median	66	57	60	55	63	57	67	63	72	65
L10	70	64	62	56	67	63	69	66	73	67
L50	66	57	60	55	63	57	67	63	72	65
L90	59	54	57	53	61	53	65	61	71	64

Stations	Peeniya (I)		RVCE (S)		Teri Dolmur(R)		White Field (I)		Yashwantpur(C)	
Standard	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75	70	50	40	55	45	75	70	65	55
Note: All values are in Leq dB(A)										

Table-5: Frequency analysis of sound level data of first 05 stations for the year 2017

Frequency of Sound level data	BTM (R)		Marathali (C)		NIMHANS (S)		Nisarga Bhawan (R)		Parisar Bhawan (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	11	28	10	3	0	0	0	0
45-55	0	0	183	187	41	116	137	363	0	0
55-65	164	173	123	104	286	229	227	1	35	359
65-75	200	191	26	20	23	15	0	0	328	5
>75	0	0	3	1	0	0	0	0	0	0

Table-6: Frequency analysis of sound level data of remaining 05 stations for the year 2017

Frequency of Sound level data	Peeniya (I)		RVCE (S)		Teri Dolmur(R)		White Field (I)		Yashwanthpur (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	1	0	0	0	0	0	0
45-55	6	63	5	222	0	100	0	1	0	0
55-65	127	271	359	142	255	250	43	278	1	124
65-75	220	30	1	0	106	10	319	82	362	238
>75	0	0	0	0	0	0	0	1	1	0

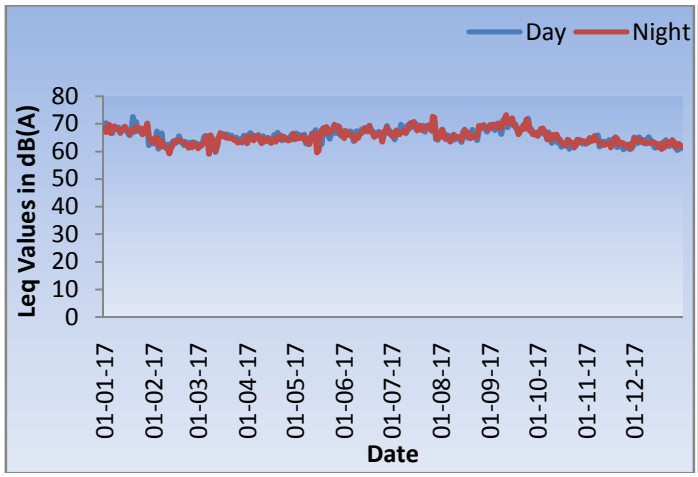


Figure 3 : Day and Night Time Variation of BTM

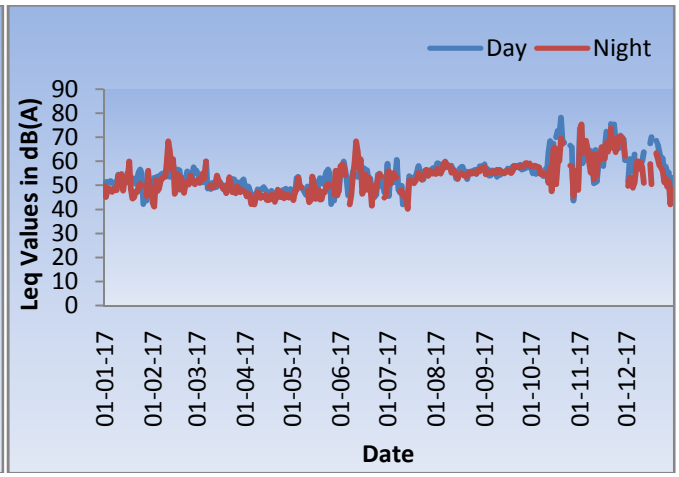


Figure 4: Day time and Night time variation of Marathali

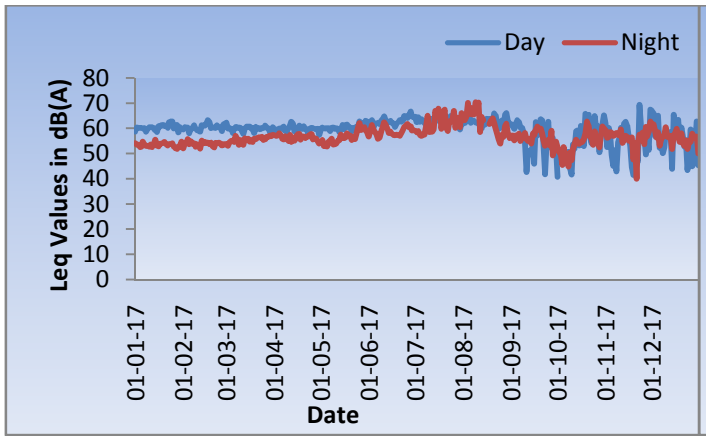


Figure 5: Day time and Night time variation of NIMHANS

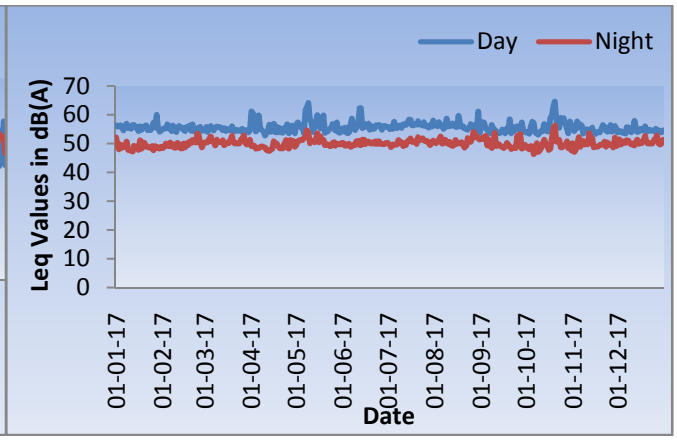


Figure 6: Day time and Night time variation of Nisarga Bhawan

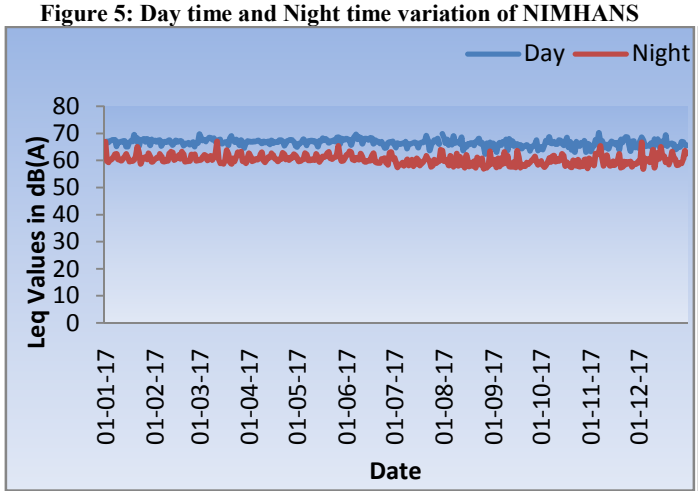


Figure 7: Day time and Night time variation of Parisar Bhawan

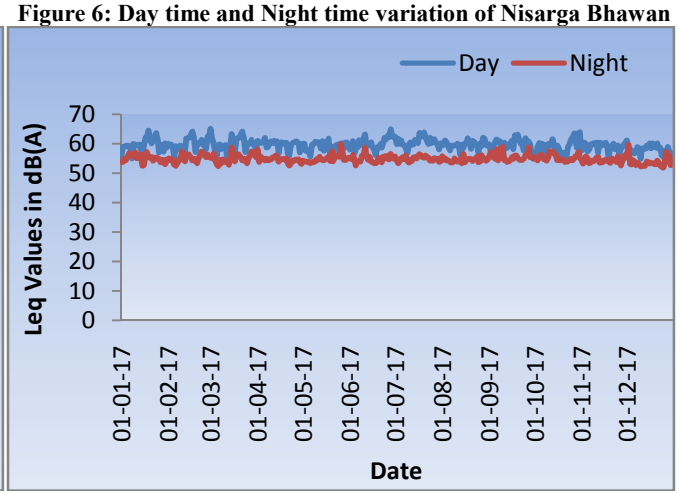


Figure 8: Day time and Night time variation of RVCE

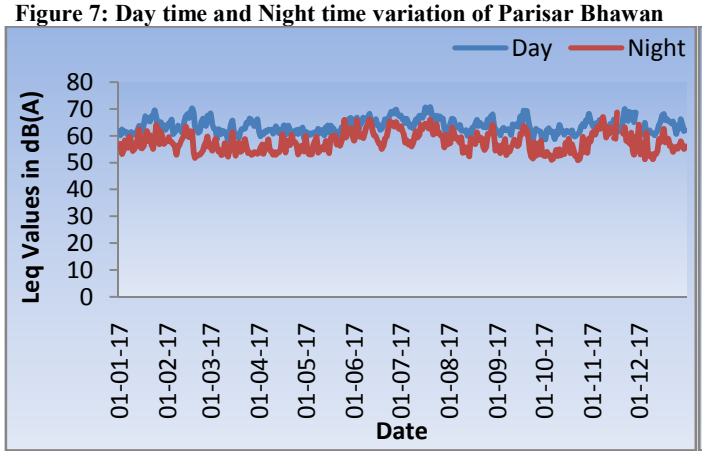


Figure 9: Day time and Night time variation of TERI

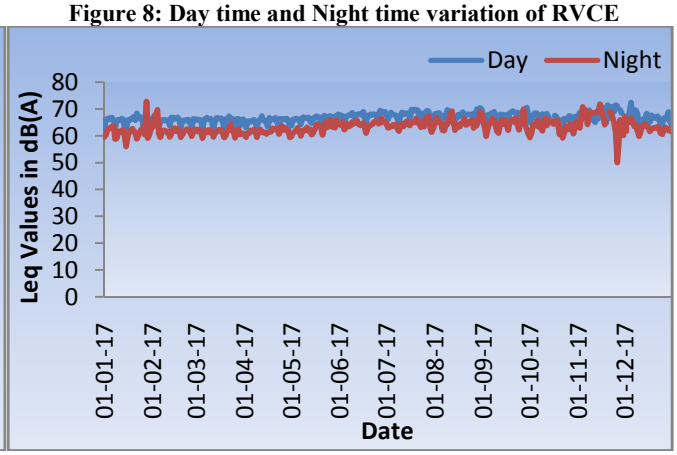


Figure 10: Day time and Night time variation of White Field

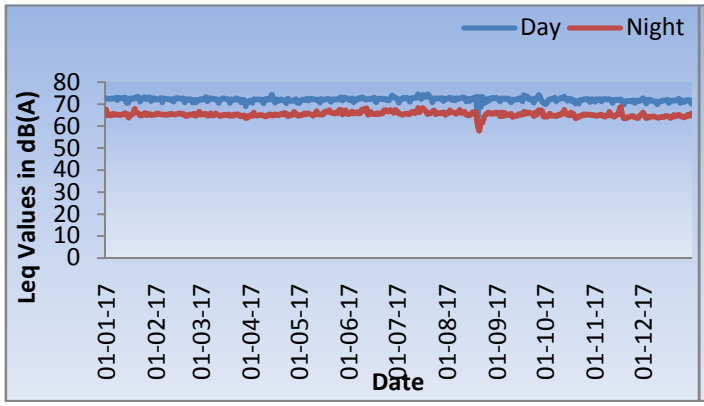


Figure 11: Day time and Night time variation of Yashwantpur

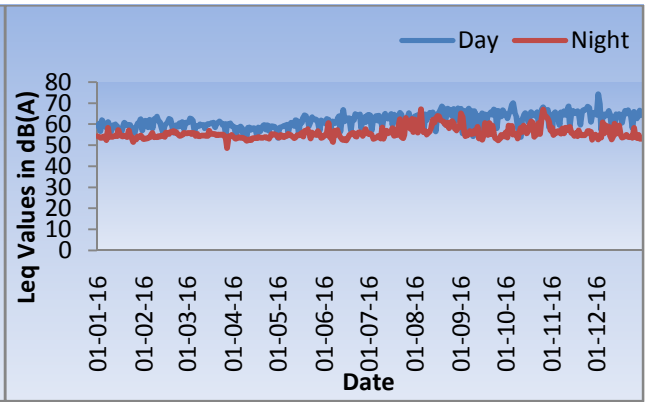


Figure 12: Day time and Night time variation of Peeniya

Based on above facts and statistical values, following observations are made:

- Out of 10 stations, 03 stations (BTM, Nisarga Bhawan and Teri Dolmur) are installed at residential zone, 03 stations (Marathali, Parisar Bhawan and Yashwantpur) are installed at commercial zone, 02 stations (NIMHAN and RVCE) are installed at silence zone and remaining 02 stations (Peeniya and White Field) are installed at industrial zone.
- 365 observations were made at BTM noise monitoring station both at day and night time. During day and night time 100% of exceedance of prescribed standard was observed. 200 observations were recorded in range of 65 to 75 dB(A) during day time whereas 173 observations were made in range of 55-65 dB(A) at night time.
- At Marathali station, 8% of exceedance was observed during day and 37% exceedance was observed in the night time. Out of 347 observations, 123 observations were recorded in the range of 55 to 65 dB(A) at day time. During night time, 341 observations were recorded and 187 observations falls in the range of 45 to 55 dB(A). 90% of the time sound level is 47 dB(A) during day time whereas at night time 45 dB(A).
- Noise Monitoring station installed at NIMHANS have 360 observations during day time and 363 observations during night time. Sound level ranges between 41 to 69 dB(A) during day time and 40 to 70 dB(A) during night time. 94% exceedance of prescribed standard was observed during day time whereas 100% of exceedance was observed during night time. 90% of the time, 53 dB(A) of sound level observed during day time whereas 53 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 286 observations during day time whereas sound level falls between 45 to 55 dB(A) for 41 observations.
- 365 observations were recorded at Nisarga Bhawan (NISA) Noise monitoring station during day time and 365 observations were made during night time. Sound level ranges between 53 to 65 dB(A) during day time and 46 to 56 dB(A) at night time. During day time 62% of exceedance of prescribed norms was observed whereas 100% of exceedance was observed during night time. 227 observations fall in the range of 55 to 65 dB (A) at day time whereas 137 observation recorded in the range of 45 to 55 dB(A).
- At Parisar Bhawan (PARI), sound level ranges from 62 to 70 dB (A) during day time and 57 to 67 dB(A) during night time. 90% of exceedance of prescribed standard was observed during day time whereas 100% exceedance was observed during night time. 90% of the time sound level of 65 dB(A) was observed during day time and subsequently 58 dB(A) at night time. 365 observations were made during the year 2017. During day time, 328 times sound level ranges between 65 to 75 dB(A) and 35 times sound levels fall in the range of 55 to 65 dB(A). During night time, 359 observations fall in the range of 55 to 65

dB(A), 05 observations were made in the range of 65 to 75 dB(A). Sound level not exceeding the 75 dB(A) at day time and in the night time.

- Noise Monitoring station installed at Peeniya (PNYA) have 365 observations during day time and also 365 observations during night time. Sound level ranges between 54 to 74 dB(A) during day time and 49 to 70 dB(A) during night time. Zero percentage (0%) of exceedance of prescribed standard was observed during day time as well as during night time also. 90% of the time, 59 dB(A) of sound level observed during day time whereas 54 dB(A) observed during night time. Sound level ranges between 55 to 65 dB (A) for 127 observations during day time whereas sound level falls between 45 to 55 dB(A) for 06 observations.
- At RVCE station, 100% of exceedance was observed during day and also in the night time. Out of 365 observations, 359 observations were recorded in the range of 55 to 65 dB(A) at day time. During night time, 365 observations were recorded and 222 observations falls in range of 45 to 55 dB (A) and there is only 01 observation was found during day time and no observations were recorded in the range of 65 to 75 dB(A). 90% of the time sound level is 57 dB(A) during day time whereas at night time 53 dB(A).
- 362 observations were made at Teri Dolmur noise monitoring station during day time and 361 observations were made at night time. During day time and night time 100% of exceedance of prescribed standard was observed. 106 observations were recorded in range of 65 to 75 dB(A) during day time whereas 250 observations were made in the range of 55-65 dB(A) at night time.
- Noise Monitoring station installed at White Field have 359 observations during day time and 361 observations during night time. Sound level ranges between 62 to 72 dB(A) during day time and 50 to 73 dB(A) during night time. There is no exceedance of prescribed standard was observed during day time and only 01% of exceedance of prescribed standard was observed during night time. 90% of the time, 65 dB(A) of sound level observed during day time whereas 61 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 43 observations during day time.
- At Yashwantpur station, 100% exceedance was observed during day and night time also. Out of 364 observations, there is 01 observation was recorded in the range of 55 to 65 dB(A) at day time. During night time, 363 observations were recorded and no observations falls in range of 45 to 55 dB(A) and 238 observations were recorded in the range of 65 to 75 dB(A). 90% of the time sound level is 71 dB(A) during day time whereas at night time 64 dB(A).

6.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Bengaluru is analysed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in Table 7 and 8. Graph showing monthly trend for 10 stations is shown in Figures 13 to 22.

Table 7: Monthly Average Sound level of first 05 stations of Bengaluru

Stations	Parisar Bhawan		Peeniya (I)		Nisarga Bhawan		Marathali		BTM	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	68	68	53	57	56	49	67	62	67	59
February	64	63	56	60	56	51	66	61	67	58
March	64	64	53	55	56	51	67	61	64	55
April	65	65	48	46	56	48	67	61	61	55
May	66	67	52	51	58	50	67	61	58	54

Stations	Parisar Bhawan		Peeniya (I)		Nisarga Bhawan		Marathali		BTM	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
June	67	67	55	59	57	49	67	61	67	57
July	68	69	54	57	57	50	67	59	68	57
August	67	67	57	55	57	50	66	59	67	58
September	70	70	57	65	57	51	66	60	67	61
October	64	65	72	74	59	51	66	59	66	61
November	63	63	73	69	56	50	66	60	70	67
December	63	63	76	67	56	51	67	62	69	65

Table 8: Monthly Avg. Sound level of remaining 05 stations of Bengaluru

Stations	Yashwanthpur		RVCE		Whitefield Area		Dolmur		NIMHANS	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	72	64	60	55	70	63	63	59	60	53
February	72	63	60	55	66	63	65	58	60	54
March	72	63	61	55	66	60	63	56	60	56
April	72	64	63	54	66	60	62	56	60	57
May	72	64	59	55	66	62	63	60	61	57
June	72	65	60	55	68	63	66	62	63	59
July	72	64	60	54	68	63	66	61	78	75
August	73	65	60	54	68	65	64	59	78	83
September	72	64	60	56	73	70	64	58	61	57
October	72	63	60	55	72	72	64	54	60	55
November	71	63	59	54	86	75	83	77	61	57
December	71	62	58	54	72	67	69	59	61	57

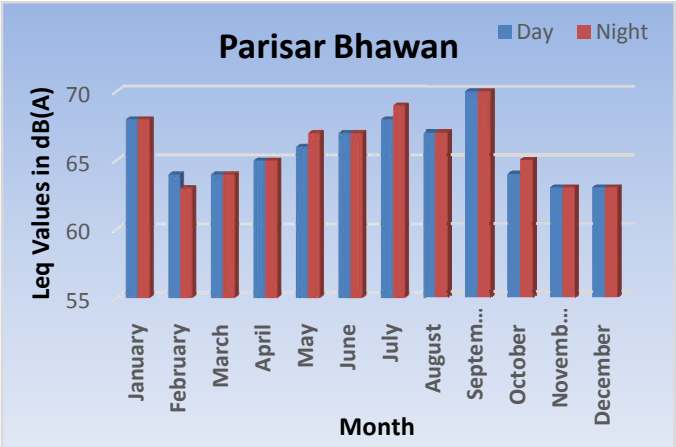


Figure 13: Monthly trend of Parisar Bhawan station

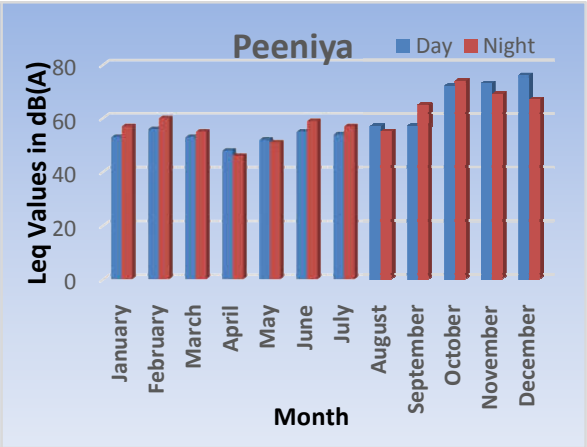


Figure 14: Monthly trend of Peeniya station

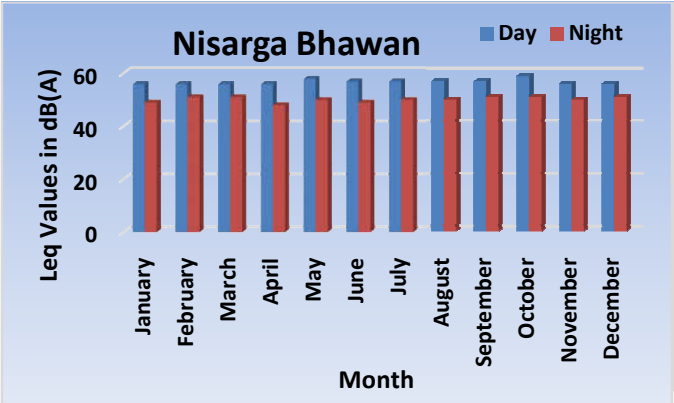


Figure 15: Monthly trend of Nisarga Bhawan station

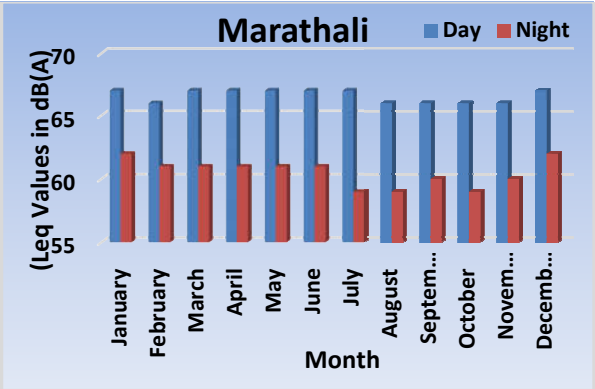


Figure 16: Monthly trend of Marathali station

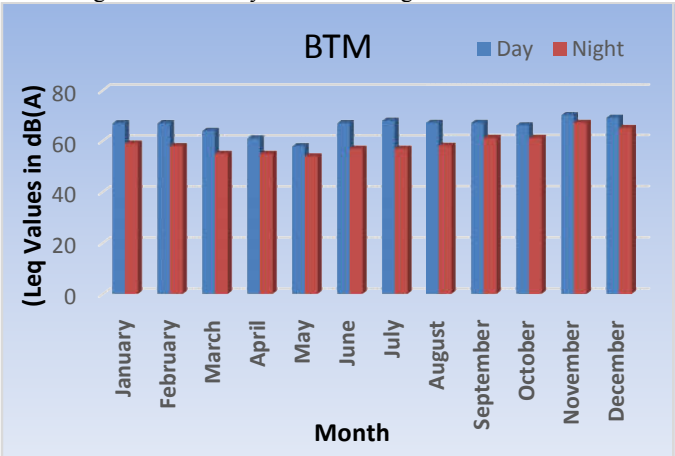


Figure 17: Monthly trend of BTM station

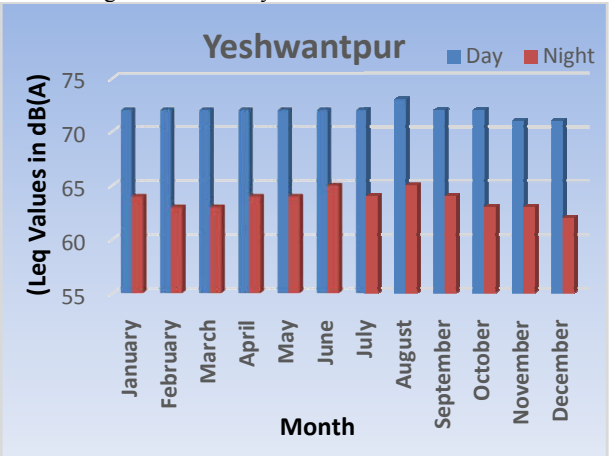


Figure 18: Monthly trend of Yashwanthpur station

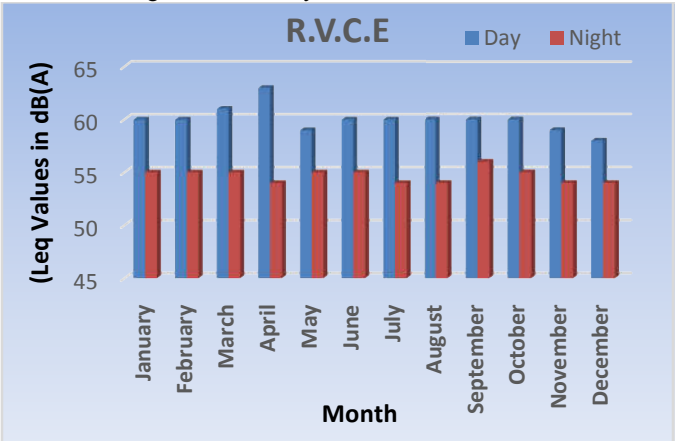


Figure 19: Monthly trend of R.V.C.E station

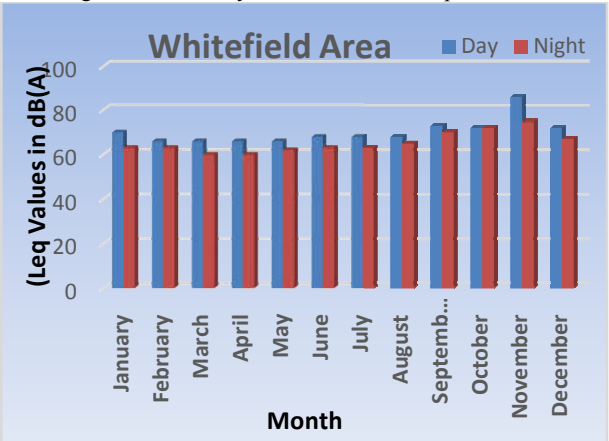


Figure 20: Monthly trend of Whitefield Area station

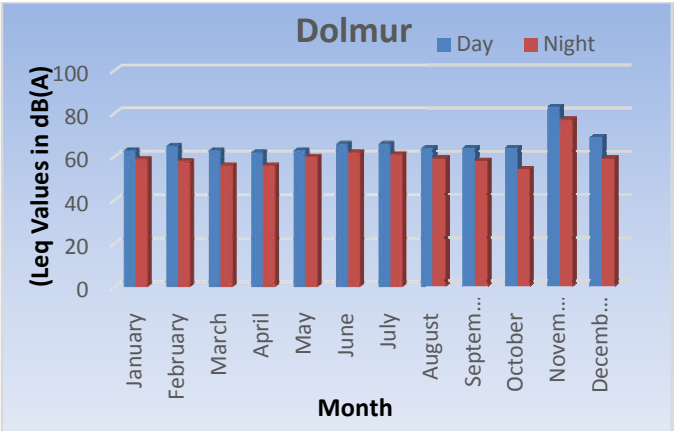


Figure 21: Monthly trend of Dolmur station

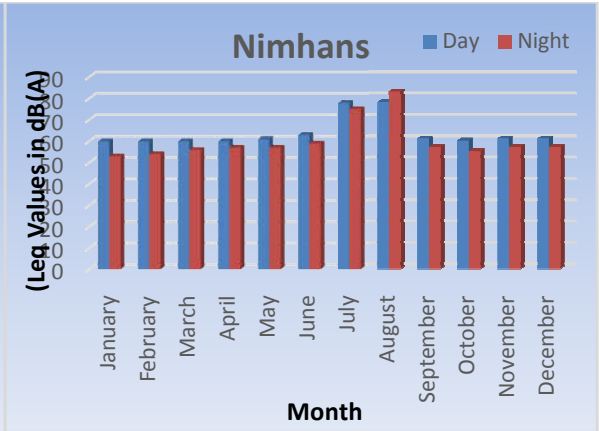


Figure 22: Monthly trend of NIMHANS station

Close examination to above data and graph reveals following observations:

- At Parisar Bhawan, sound level varies between 63 to 70 dB(A) for day time whereas 63 to 70 dB(A) for night time.
- Sound level ranges between 48 to 76 dB(A) for day time at Peeniya whereas sound level varies from 46 to 74 dB(A) during night time.
- At Nisarga Bhawan, range of sound level recorded for day time is 56 to 59 dB(A) and 48 to 51 dB(A) for night time.
- At Marathali, maximum sound level observed was 67 dB(A) and minimum sound level recorded to 66 dB(A) for day time whereas sound level ranges between 59 to 62 dB(A) for night time.
- At BTM, sound level varies between 58 to 70 dB(A) for day time whereas 54 to 67 dB(A) for night time.
- At Yashwantpur, sound level was recorded 71 to 73 dB(A) for day time whereas 62 to 65 dB(A) for night time.
- Sound level ranges between 58 to 63 dB(A) for day time at R.V.C.E whereas sound level varies from 54 to 56 dB(A) during night time.
- At Whitefield Area, range of sound level recorded for day time is 66 to 86 dB(A) and 60 to 75 dB(A) for night time.
- At Dolmur, maximum sound level observed was 83 dB(A) and minimum sound level recorded to 62 dB(A) for day time whereas sound level ranges between 54 to 77 dB(A) for night time.
- At NIMHANS, sound level was recorded 60 to 78 dB(A) for day time whereas 53 to 83 dB(A) for night time.

6.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Bengaluru is analysed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table-9. Graph showing yearly trend for 10 stations is shown in Figure 23.

Table 9: Yearly Avg. Sound level of 10 stations of Bengaluru`

Station	Day Leq. dB(A)	Night Leq. dB(A)	24(hrs.) Leq. dB(A)
Parisar Bhawan(C)	67	61	65
Peeniya(I)	66	60	65
Nisarga Bhawan(R)	57	50	55
Marathali(C)	64	63	64
BTM(R)	66	66	66
Yeshwantpur(C)	72	64	70
R.V.C.E.(S)	60	55	59
Whitefield(I)	72	66	71
Dolmur(R)	68	61	67
Nihmans(S)	67	66	66

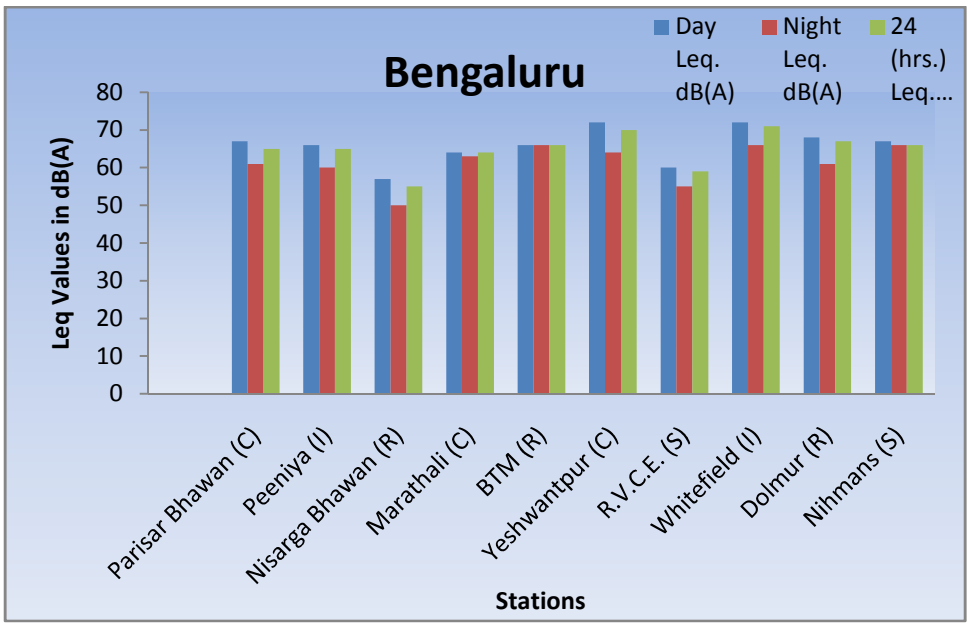


Figure 23: Yearly trend of Bengaluru's noise monitoring stations

Close examination of Noise Data reveals that noise level at Bengaluru's ranges between 57 dB(A) at Nisarga Bhawan (R) to 72 dB(A) at Yashwantpur(C) and Whitefield (I) during day time whereas 50 dB(A) at Nisarga Bhawan to 66 dB(A) at BTM (R), Whitefield (I) and Nimhans (S) during night time.

7. AMBIENT NOISE MONITORING OF CHENNAI

Chennai, the capital city of Tamil Nadu, is located at 13.0827° N, 80.2707° E, and lies in the Southern India on the Coromandel Coast off the Bay of Bengal. It is the biggest industrial and commercial Centre in South India, and a major cultural, economic and educational Centre. Chennai is known as the "Detroit of India" for its automobile industry. Chennai is spread over an area of 426 sq. Kilometers. Current Population of Chennai in 2014 is 4,792,949 as per census - 2011. In Chennai, 10 monitoring stations are installed and details are depicted in Table -10 and Figure - 24

Table-10: Monitoring locations of Chennai

Sl. No.	Station location	Category	Latitude	Longitude
1.	Eye Hospital	Silence Zone	13º6' 16.13" N	80º17' 3.35" E
2.	T. Nagar	Commercial Zone	13º2' 24.34" N	80º13' 57.44" E
3.	Perambur	Commercial Zone	13º6' 43.46" N	80º14' 16.85" E
4.	Guindy	Industrial Zone	13º0' 42.79" N	80º13' 9.46" E
5.	Triplicane	Residential Zone	13º3' 17.91" N	80º16' 28.44" E
6.	Pallikaranai	Commercial Zone	12º56' 14.67" N	80º12' 55.27" E
7.	Velachery	Residential Zone	12º58' 35.09" N	80º13' 15.27" E
8.	Washermanpet	Commercial Zone	13º7' 53.84" N	80º16' 43.95" E
9.	Anna Nagar	Silence Zone	13º5' 21.45" N	80º13' 23.93" E
10.	Sowcarpet	Residential Zone	13º5' 42.4" N	80º16' 32.2" E

Figure 24: Map shows the monitoring locations of Chennai

7.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Chennai has been carried out at 10 locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned in Table 2 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in Tables 11 and 12.Tables 13 and 14 depict the frequency distribution data for the year 2017. Graphical representation of each station for the year 2017 is shown in Figures 25 to 34.

Table 11: Statistical behavior of sound level data of first 05 stations for the year 2017

	ANNA NAGAR (S)		EYEH (S)		GUINDY (I)		PALLIKARANAI (C)		PERAMBUR (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**50**	**40**	**50**	**40**	**75**	**70**	**65**	**55**	**65**	**55**
No of Exceedance	365	365	344	364	345	362	340	338	311	332
No of Observations	365	365	365	364	365	365	343	338	363	357
Percentage of Exceedance	100	100	94	100	95	99	99	100	86	93
Max	72	67	74	69	78	75	88	87	84	84
Min	60	52	40	46	65	49	62	63	42	41
Median	65	58	67	60	77	73	74	70	71	72
L10	69	63	71	65	77	74	78	78	77	80
L50	65	58	67	60	77	73	74	70	71	72
L90	62	54	60	56	75	72	70	68	63	60

Table 12: Statistical behavior of sound level data of remaining 05 stations for the year 2017

	SOWCARPET (R)		T.NAGAR (C)		TRIPLICANE (R)		VELACHERRY (R)		WASHERMAN PET (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**55**	**45**	**65**	**55**	**55**	**45**	**55**	**45**	**65**	**55**
No of Exceedance	359	357	365	358	57	357	340	352	353	361
No of Observations	359	357	365	365	365	365	340	352	361	362
Percentage of Exceedence	100	100	100	98	16	98	100	100	98	100
Max	73	67	80	76	72	69	80	79	79	75
Min	62	56	66	41	42	40	62	54	63	55
Median	66	61	75	68	51	51	67	60	71	65
L10	69	64	76	71	57	57	72	71	73	68
L50	66	61	75	68	51	51	67	60	71	65
L90	64	58	74	66	50	49	64	56	69	63

Table 13: Frequency analysis of sound level data of first 05 stations for the year 2017

Frequency of Sound level data	ANNA NAGAR (S)		EYEH (S)		GUINDY (I)		PALLIKARANAI (C)		PERAMBUR (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	1	12	1	0	0	0	0	1	6
45-55	1	85	17	31	0	1	0	0	18	19
55-65	166	267	56	308	1	1	3	5	33	43
65-75	198	12	280	24	19	362	265	271	237	188
>75	0	0	0	0	344	1	74	61	73	100

Table 14: Frequency analysis of sound level data of remaining 05 stations for the year 2017

Frequency of Sound level data	SOWCARPET (R)		T.NAGAR (C)		TRIPLICANE (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	3	5	8	0	0	0	0
45-55	0	0	0	4	302	306	0	4	0	1
55-65	78	343	0	3	46	46	69	280	8	177
65-75	280	13	121	350	11	4	259	52	335	183
>75	0	0	243	4	0	0	11	15	17	0

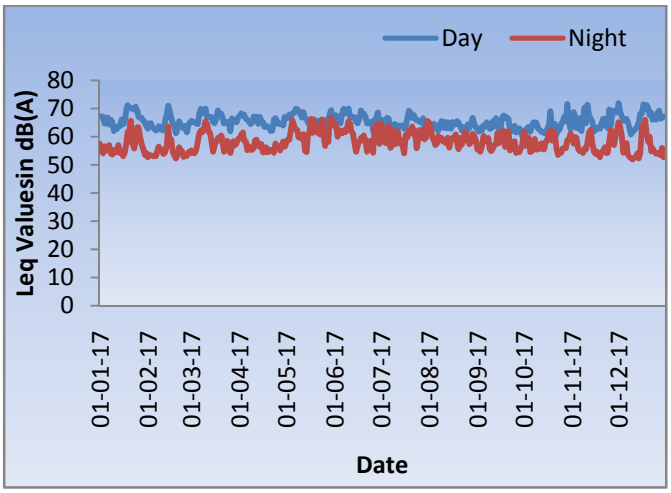


Figure 25: Day time and Night time variation of Eye Hospital

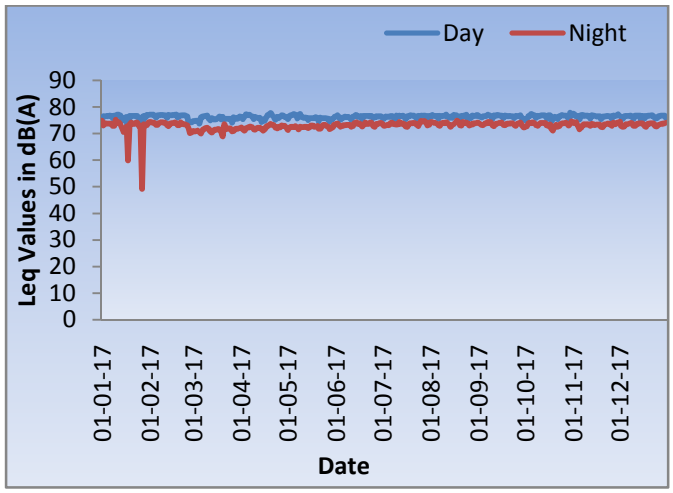


Figure 26: Day time and Night time variation of Guindy

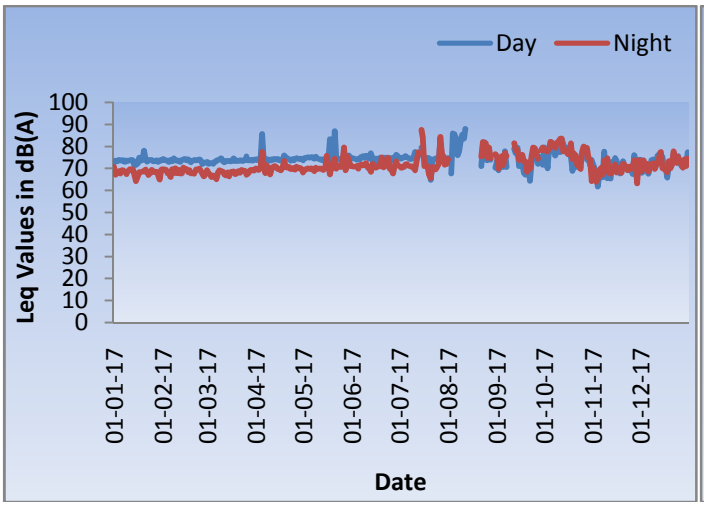


Figure 27: Day time and Night time variation of Pallikaranai

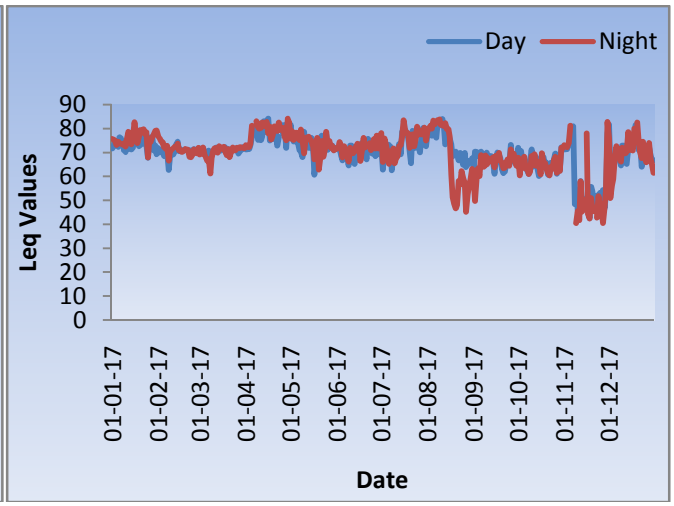


Figure 28: Day time and Night time variation of Perambur

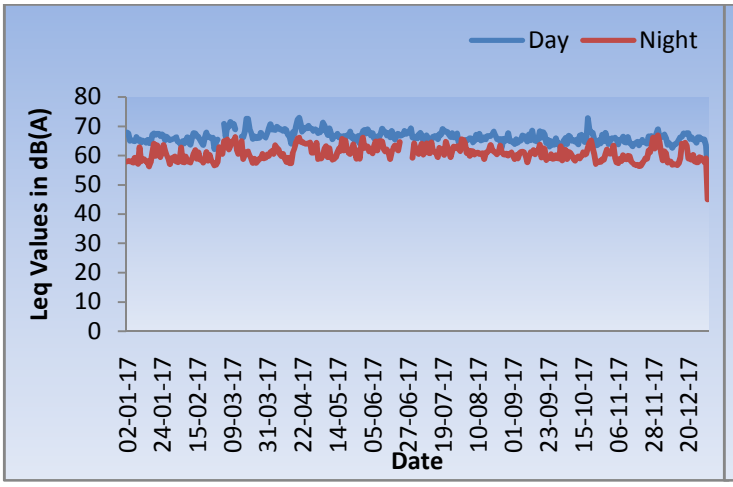


Figure 29: Day time and Night time variation of Show carpet

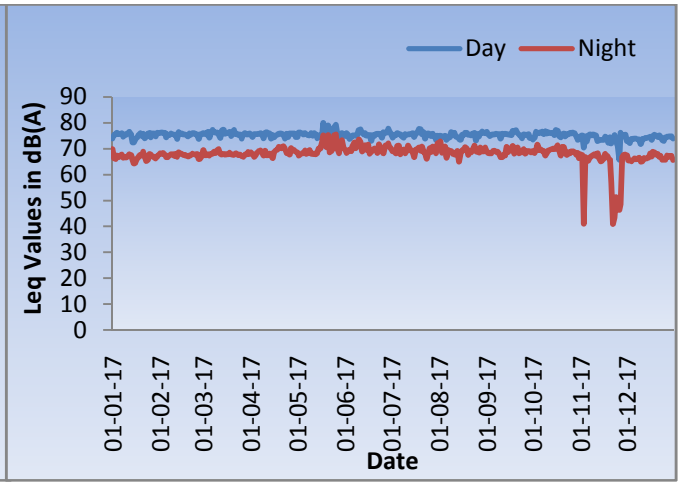


Figure 30: Day time and Night time variation of T.Nagar

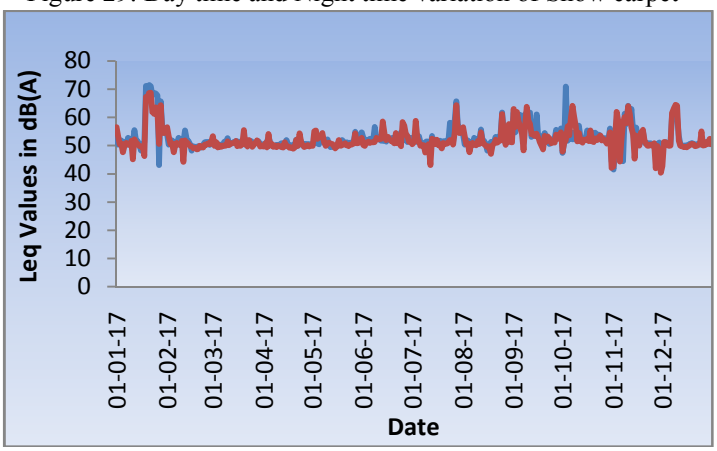


Figure 31: Day time and Night time variation of Triplicane

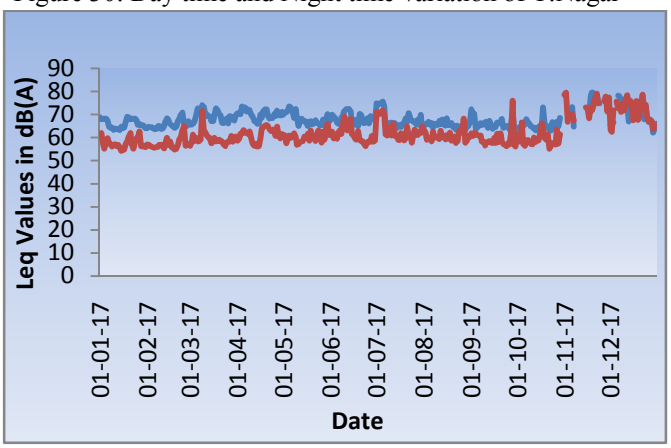


Figure 32: Day time and Night time variation of Velacherry

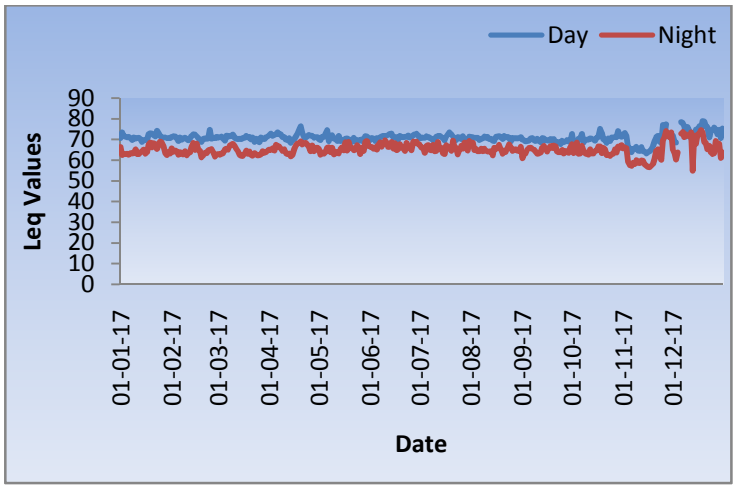


Figure 33: Day time and Night time variation of Washermanpet

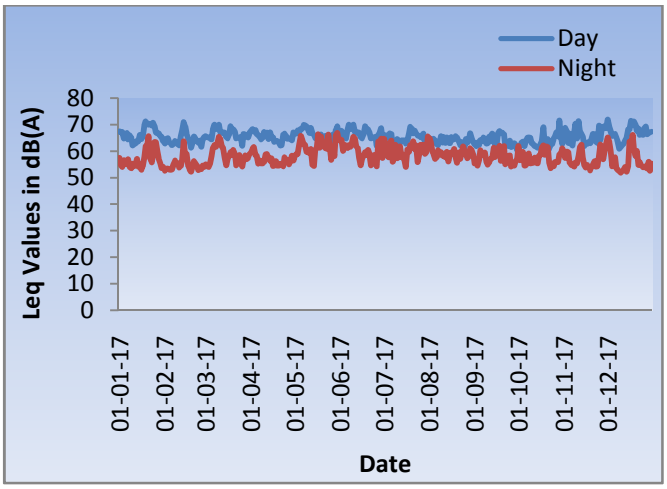


Figure 34: Day time and Night time variation of Anna Nagar

Based on above facts and statistical values, following observations are made:

- At Anna Nagar, sound level ranges from 60 to 72 dB(A) during day time and 52 to 67 dB(A) during night time. 100% of exceedance of prescribed standard was observed during day time whereas 100% exceedance was observed during night time also. 90% of the time sound level of 62 dB(A) was observed during day time and subsequently 54 dB(A) at night time. 365 observations were made during the year 2017. During day time, 166 times sound level ranges between 55 to 65 dB(A) and 198 times sound level fall in the range of 65 to 75 dB(A). During night time, 85 observations falls in the range of 45 to 55 dB(A), 267 observations were made in the range of 55 to 65 dB(A).
- At Eye hospital, sound level ranges from 40 to 74 dB(A) during day time and 46 to 69 dB(A) during night time. 94% of exceedance of prescribed standard was observed during day time whereas 100% of exceedance was observed during night time. 90% of the time sound level of 60 dB(A) was observed during day time and subsequently 56 dB(A) at night time. 365 observations at day time and 364 observations at night time were made during the year 2017. During day time, 56 times sound level ranges between 55 to 65 dB(A) and 280 times sound level fall in the range of 65 to 75 dB(A). 12 times, sound level below the 45 dB(A) at day time. During night time, 31 observations falls in the range of 45 to 55 dB(A), 308 observations were made in the range of 55 to 65 dB(A).
- At Guindy (GNDY) station, 95% exceedance was observed during day and 99% exceedance was observed at night time. Out of 365 observations, 344 observations were recorded more than 75 dB(A) and 19 observation was recorded in range of 65 to 75 dB(A) during day time. During night time, 365 observations were recorded and 362 observations falls in the range of 65 to 75 dB(A) and 01 observation was above the 75 dB(A). 90% of the time sound level is 75 dB(A) during day time whereas at night time 72 dB(A).
- Noise Monitoring station installed at Pallikarnai have 343 observations during day time and 338 observations during night time. Sound level ranges between 62 to 88 dB(A) during day time and 63 to 87 dB(A) during night time. 99% exceedance of prescribed standard was observed during day time and 100% exceedance was observed during night time. Sound level ranges between 65

to 75 dB(A) for 265 observations during day time whereas sound level ranges between 55 to 65 dB(A) for 05 observations at night. 74 times sound level exceeded 75 dB(A) at day time.

- 363 observations were recorded at Perambur (PMB) Noise monitoring station during day time and 357 observations were recorded during night time. Sound level ranges between 42 to 84 dB(A) during day time and 41 to 84 dB(A) at night time. During day time 86% of exceedance of prescribed norms was observed and 93% of exceedance was observed during night time. 237 observations fall in the range of 65 to 75 dB(A) at day time. 73 times sound level exceeded 75 dB(A) at day time whereas 100 times during night time.
- 359 observations were made at SOWCARPET noise monitoring station at day time and 357 observations were made at night time. During day time and also night time 100% of exceedance of prescribed standard was observed. 280 observations were recorded in the range of 65 to 75 dB(A) during day time whereas 343 observations were made in the range of 55-65 dB(A) at night time. No sound level exceeded the 75 dB(A) during day time and night time.
- Noise Monitoring station installed at T. Nagar (TNGR) have 365 observations during day time and night time. Sound level ranges between 66 to 80 dB(A) during day time and 41 to 76 dB(A) during night time. 100% exceedance of prescribed standard was observed during day time whereas 98% exceedance was observed during night time. Sound level ranges between 65 to 75 dB(A) for 121 observations during day time whereas sound level ranges between 55 to 65 dB (A) for 03 observations at night time. 243 times sound level exceeded 75 dB(A) at day time and 04 times exceedance was observed during night time.
- 365 observations were made at Triplicane (TRLN) noise monitoring station at day time and night time. During day time, 16% of exceedance of prescribed standard was observed whereas 98% of exceedance was observed during night time. 11 observations were recorded in range of 65 to 75 dB(A) during day time whereas 46 observations were made in range of 55-65 dB(A) at night time. No sound level exceeded the 75 dB(A) during day time and night time.
- 340 observations were recorded at Velacherry's Noise monitoring station during day time and 352 observations were recorded during night time. Sound level ranges between 62 to 80 dB(A) during day time and 54 to 79 dB(A) at night time. During day time 100% of exceedance of prescribed norms was observed whereas 100% of exceedance was observed during night time also. 259 observations fall in the range of 65 to 75 dB(A) at day time whereas 69 observations recorded in range of 55 to 65 dB (A). 11 times sound level exceeded 75 dB(A) at day time whereas 15 times during night time.
- Noise Monitoring station installed at Washermanpet have 361 observations during day time and 362 observations during night time. Sound level ranges between 63 to 79 dB(A) during day time and 55 to 75 dB(A) during night time. 98% exceedance of prescribed standard was observed during day time and also 100% exceedance was observed during night time. Sound level ranges between 65 to 75 dB(A) for 335 observations during day time whereas sound level ranges between 55 to 65 dB(A) for 177 observations at night time. 17 times sound level exceeded 75 dB(A) at day time and 0 times during night time.

7.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Chennai is analyzed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in Tables 15 and 16. Graphs showing monthly trend for 10 stations is shown in Figures 35 to 44.

Table 15: Monthly Average Sound level of first 05 stations of Chennai

Stations	Eye Hospital		T. Nagar		Perambur		Guindy		Triplicane	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
January	64	57	76	72	76	79	75	65	69	63
February	62	56	76	73	73	73	75	65	65	51
March	66	63	75	70	71	71	75	66	51	51
April	70	61	76	71	81	83	75	67	51	52
May	69	60	76	72	76	77	76	69	52	52
June	69	63	76	73	74	76	75	70	68	60
July	68	64	76	73	77	79	75	68	65	64
August	68	61	76	73	78	78	75	68	67	60
September	66	58	76	73	69	69	75	67	57	57
October	67	59	76	73	69	68	75	68	86	55
November	67	68	76	72	71	72	75	63	55	56
December	68	61	76	73	74	77	74	65	53	55

Table 16: Monthly Average Sound level of remaining 05 stations of Chennai

Stations	Pallikaranai		Velacherry		Anna Nagar		Sowcarpet		Washermanpet	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
January	73	67	66	62	66	57	67	61	71	64
February	73	67	66	57	64	54	66	64	71	63
March	73	66	70	58	66	59	77	63	70	63
April	75	69	70	61	68	63	70	65	72	65
May	78	71	69	60	67	62	67	61	70	65
June	75	71	69	62	66	64	71	80	71	67
July	79	77	71	67	65	62	66	62	71	65
August	87	88	67	68	64	60	66	61	71	64
September	79	80	68	66	64	58	66	59	69	66
October	79	81	71	71	64	58	67	60	71	64
November	73	72	87	82	66	57	65	60	73	66
December	74	74	78	77	67	57	65	59	77	73

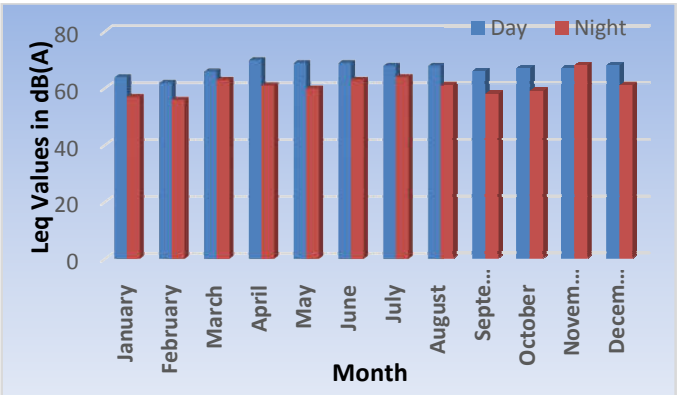


Figure 35: Monthly trend of Eye Hospital Garden station

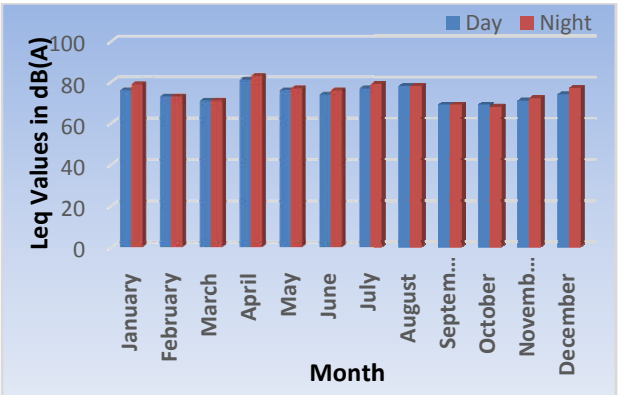


Figure 36: Monthly trend of Perambur station

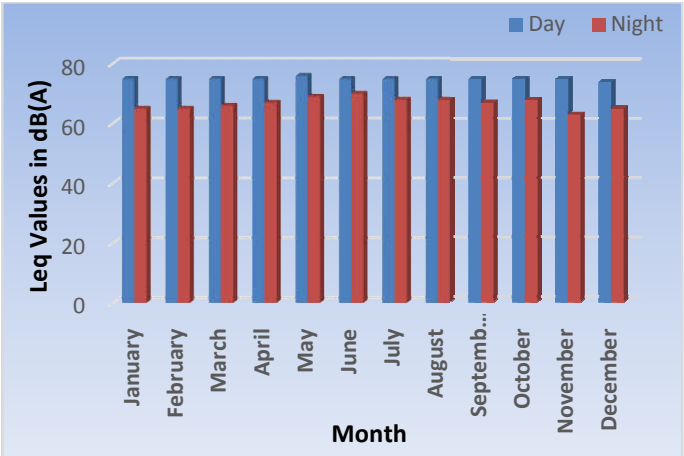


Figure 37: Monthly trend of Guindy Garden station

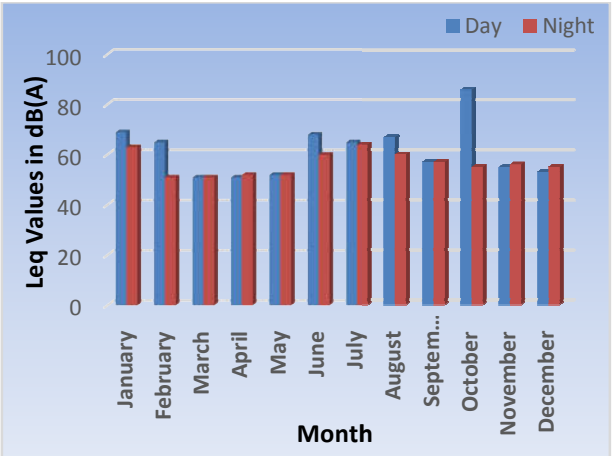


Figure 38: Monthly trend of Triplicane station

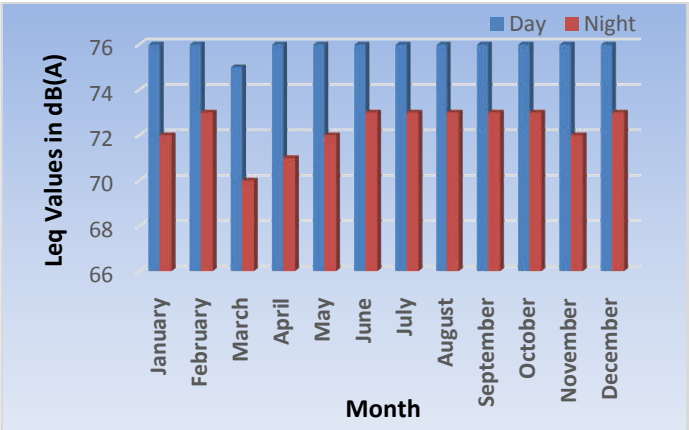


Figure 39: Monthly trend of T. Nagar station

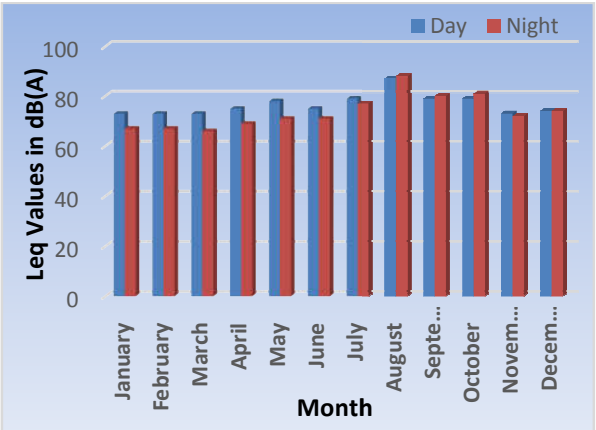


Figure 40: Monthly trend of Pallikaranai station

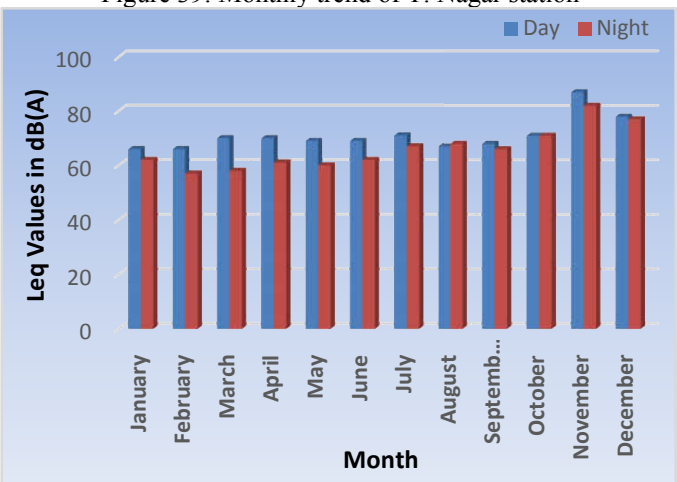


Figure 41: Monthly trend of Velacherry station

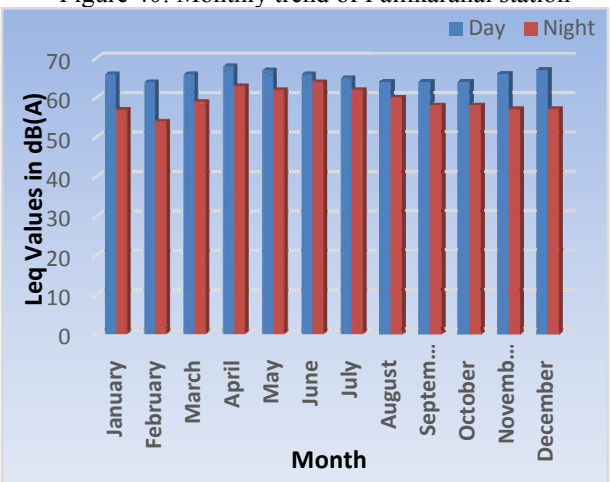


Figure 42: Monthly trend of Anna Nagar station

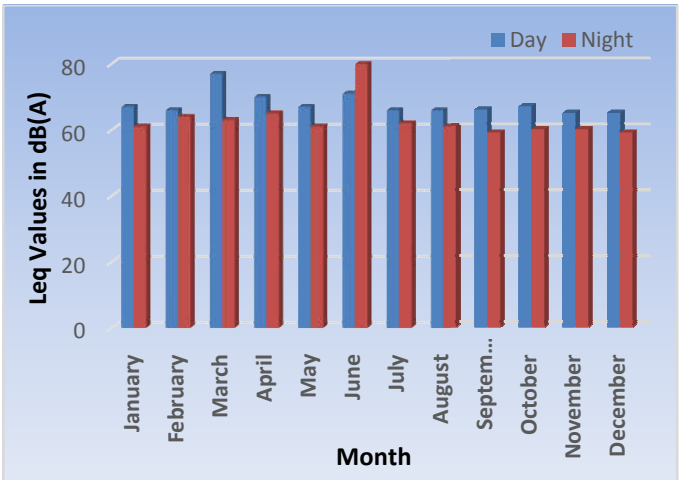


Figure 43: Monthly trend of Sowcarpet station

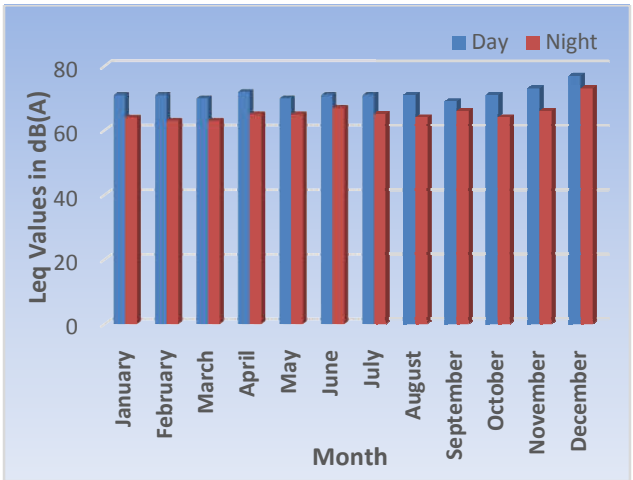


Figure 44: Monthly trend of Washermanpet station

Close examination to above data and graph reveals following observations:

- At Eye Hospital, sound level varies between 62 to 70 dB(A) for day time whereas 56 to 68 dB(A) for night time.
- Sound level ranges between 75 to 76 dB(A) for day time at T. Nagar whereas sound level varies from 70 to 73 dB(A) during night time.
- At Perambur, range of sound level recorded for day time is 69 to 81 dB(A) and 68 to 83 dB(A).
- At Guindy, maximum sound level observed was 76 dB(A) and minimum sound level recorded to 74 dB(A) for day time whereas sound level ranges between 63 to 70 dB(A) for night time.
- At Triplicane, sound level was recorded 51 to 86 dB(A) for day time whereas 51 to 64 dB(A) for night time.
- At Pallikaranai, sound level varies between 73 to 87 dB(A) for day time whereas 66 to 88 dB(A) for night time.
- Sound level ranges between 66 to 87 dB(A) for day time at Velacherry whereas sound level varies from 57 to 82 dB(A) during night time.
- At Anna Nagar, range of sound level recorded for day time is 64 to 68 dB(A) and 54 to 64 dB (A) for the night time.
- At Sowcarpet, maximum sound level observed was 77 dB(A) and minimum sound level recorded to 65 dB(A) for day time whereas sound level ranges between 59 to 80 dB(A) for night time.
- At Washermanpet, sound level was recorded 69 to 77 dB(A) for day time whereas 63 to 73 dB(A) for night time.

7.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Chennai is analyzed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table 17. Graph showing yearly trend for 10 stations is shown in Figure 45.

Table 17: Yearly Average Sound level of 10 stations of Chennai

STATION	Day	Night	24

	Leq. dB(A)	Leq. dB(A)	(hrs.) Leq. dB(A)
Eye Hospital(S)	67	62	66
T.Nagar(C)	75	67	73
Perambur(C)	75	76	75
Guindy(I)	76	72	75
Triplicane(R)	69	58	67
Pallikarnai(C)	78	77	77
Velachery(R)	74	69	72
Washermanpet(C)	72	66	70
Anna Nagar(S)	66	60	64
Sowcarpet(R)	68	65	67

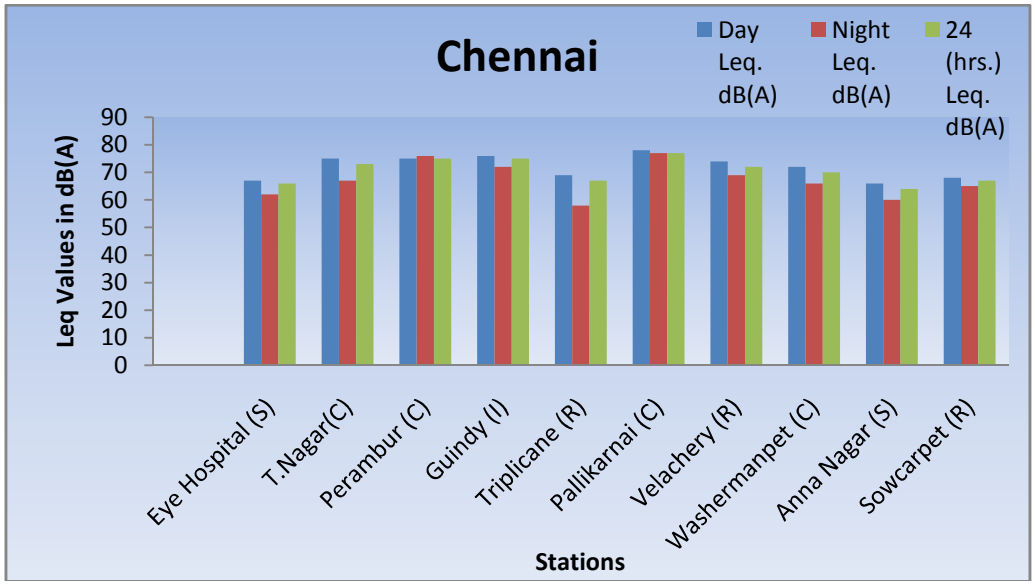


Figure 45: Yearly trend of Chennai's noise monitoring stations

Close examination of Noise Data reveals that noise level at Chennai range between 66 dB(A) at Anna Nagar (S) to 78 dB(A) at Pallikarnai (C) during day time whereas sound level ranges between 58 to 77 dB(A) at Triplicane (R) and Pallikarnai (C) respectively during night time.

8. AMBIENT NOISE MONITORING OF DELHI

Delhi, the capital of India, is located at 28.61°N 77.23°E, and lies in Northern India. It stands on the west bank of Yamuna River bounded by Uttar Pradesh and on the north, west and south by Haryana. Delhi is spread over an area of 1483 sq. kilometers, therefore making it the largest city in terms of area in the country. It has a length of 51.9 km and a width of 48.48 km. The vehicles and industrial activities are the major source of noise pollution in Delhi. In Delhi, 10 monitoring stations are installed and details are depicted in Table 18 and Figure 46.

Table 18: Monitoring locations of Delhi

Sl. No.	Station location	Category	Latitude	Longitude
1.	Delhi College of Engineering	Silence Zone	28º44' 44.49" N	77º5' 1.56" E
2.	Netaji Subhas Institute of Technology (NSIT)	Silence Zone	28º36' 14.46" N	77º2' 28.78" E
3.	IHBAS, Dilshad Garden	Silence Zone	28º40' 53.76" N	77º19' 6.2" E
4.	ITO	Commercial Zone	28º37' 41.21" N	77º14' 27.22" E
5.	Central Pollution Control Board	Commercial Zone	28º39' 20.99" N	77º17' 39.91" E
6.	Civil Lines	Commercial Zone	28º40' 55.97" N	77º13' 25.75" E
7.	R.K. Puram	Silence Zone	28º33' 46.23" N	77º11' 12.4" E
8.	AnandVihar	Commercial Zone	28º38' 51.22" N	77º18' 57.02" E
9.	Mandir Marg	Silence Zone	28º38' 11.41" N	77º12' 2.36" E
10.	Punjabi Bagh	Residential Zone	28º40' 12.83" N	77º7' 54.14" E

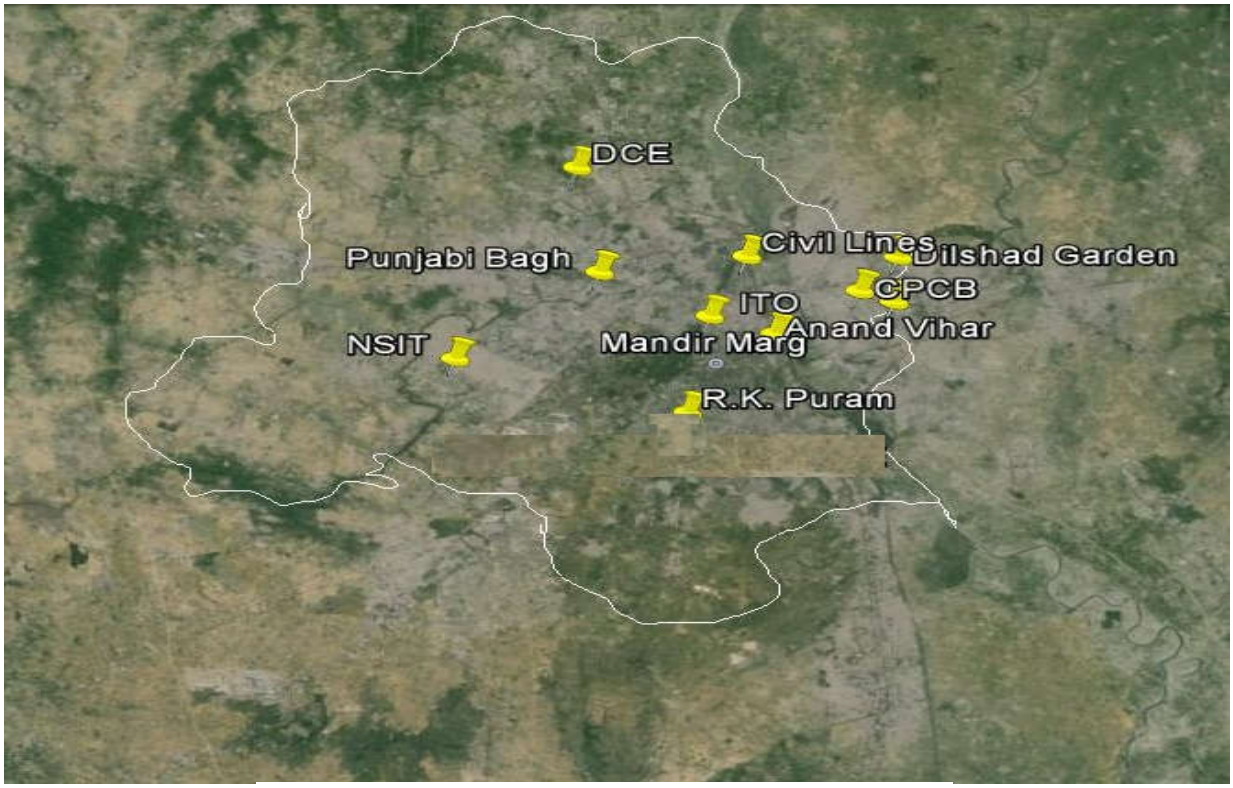


Figure 46: Map shows the monitoring locations of Delhi

8.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Delhi has been carried out at 10 locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned Table 3 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in Tables 19 and 20. Table 21 and 22 depicts the frequency distribution data for the year 2017. Graphical representation of each station for the year 2017 is shown in Figures 47 to 56.

Table 19: Statistical behavior of sound level data of first 05 stations for the year 2017

	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**65**	**55**	**65**	**55**	**65**	**55**	**50**	**40**	**50**	**40**
No of Exceedance	360	364	17	362	283	361	364	365	362	364
No of Observations	364	364	361	362	365	365	365	365	365	364
Percentage of Exceedance	99	100	5	100	78	99	100	100	99	100
Max	71	72	69	66	69	68	67	59	57	55
Min	62	62	56	56	57	53	48	45	48	47
Median	68	65	62	60	66	58	55	51	53	53
L10	69	67	64	63	67	59	57	56	53	53
L50	68	65	62	60	66	58	55	51	53	53
L90	67	63	60	57	64	56	52	48	53	52

Table 20: Statistical behavior of sound level data of remaining 05 stations for the year 2017

	ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**65**	**55**	**50**	**40**	**50**	**40**	**55**	**45**	**50**	**40**
No of Exceedance	365	365	351	365	365	365	360	360	362	364
No of Observations	365	365	365	365	365	365	364	360	364	364
Percentage of Exceedance	100	100	96	100	100	100	99	100	99	100
Max	74	71	66	69	60	60	68	66	67	61

	ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Min	67	66	48	44	54	50	55	48	55	47
Median	72	68	56	48	57	54	59	52	61	54
L10	73	69	60	51	58	56	62	56	63	56
L50	72	68	56	48	57	54	59	52	61	54
L90	70	67	52	46	55	53	56	50	58	52

Table 21: Frequency analysis of sound level data of first five noise monitoring stations under Phase-I for the year 2017

Frequency of Sound level data	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	0	0	0	0	2	0	1
45-55	0	0	0	0	0	4	184	283	360	361
55-65	4	201	343	354	81	352	180	80	5	2
65-75	359	162	16	7	283	8	1	0	0	1
>75	0	0	0	0	0	0	0	0	0	0

Table 22: Frequency analysis of sound level data of remaining five noise monitoring stations under phase-II for the year 2017

Frequency of Sound level data	ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	10	0	1	0	0	0	0
45-55	0	0	123	350	14	233	4	307	2	254
55-65	0	0	240	4	351	131	355	48	359	109
65-75	364	364	2	1	0	0	4	4	3	0
>75	0	0	0	0	0	0	0	0	0	1

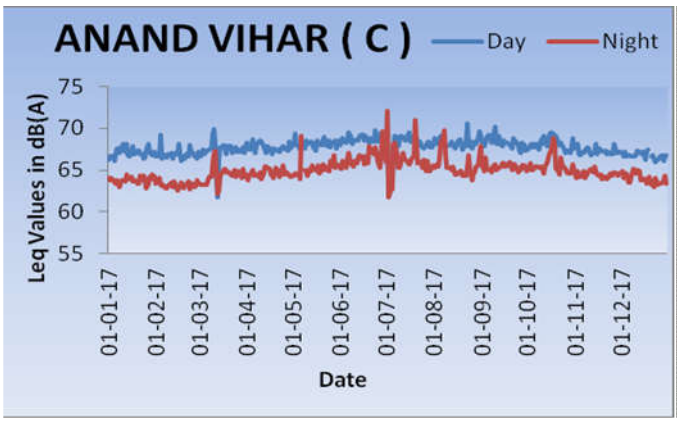


Figure 47: Daytime and Night time variation of ANAND VIHAR

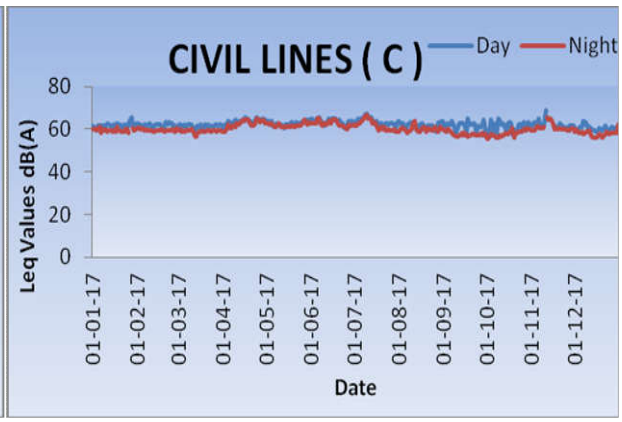


Figure 48: Day time and Night time variation of CIVIL LINES

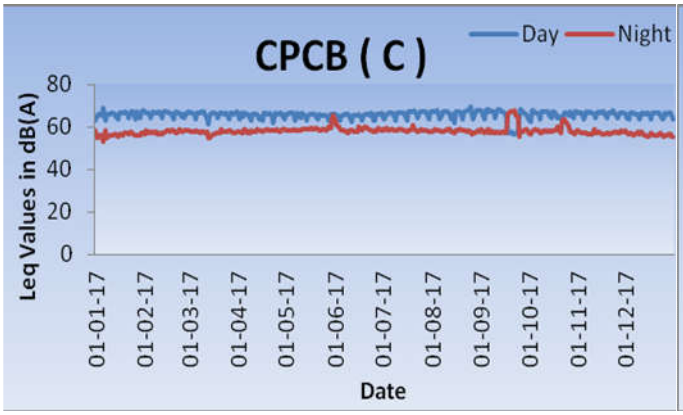


Figure 49: Day time and Night time variation of CPCB

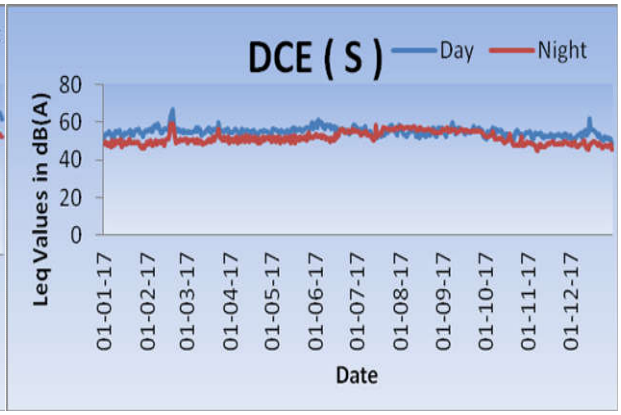


Figure 50: Day time and Night time variation of DCE

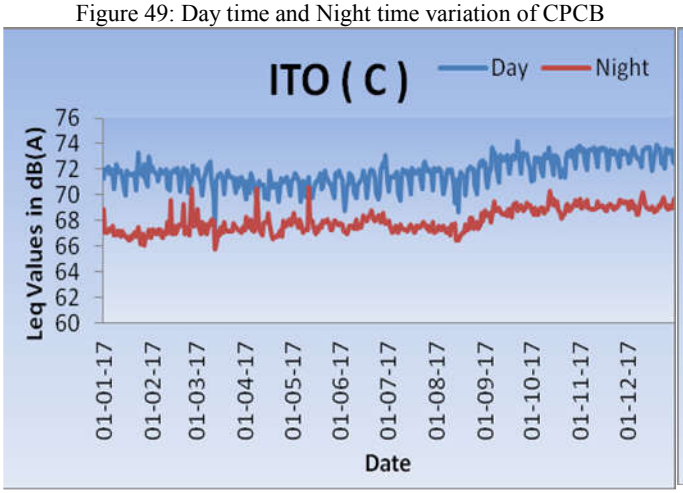


Figure 51: Day time and Night time variation of ITO

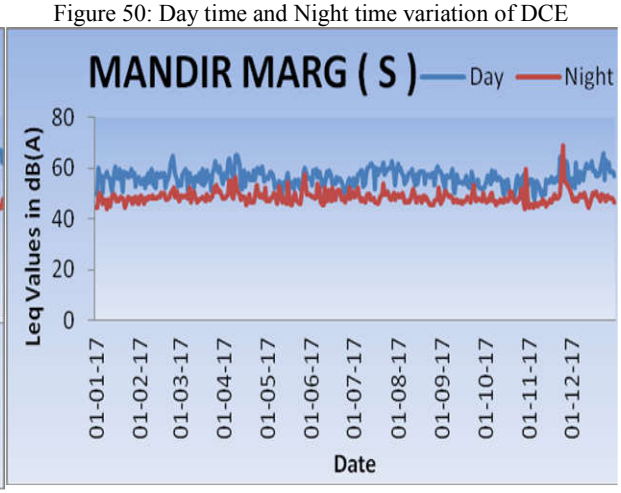


Figure52: Day time and Night time variation of MANDIR MARG

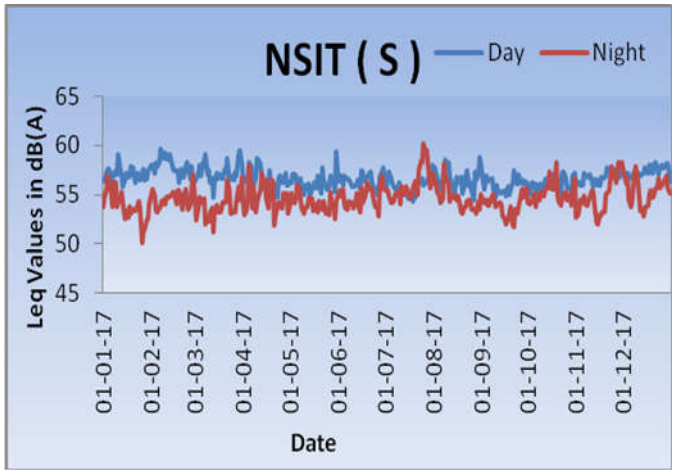


Figure 53: Day time and Night time variation of NSIT

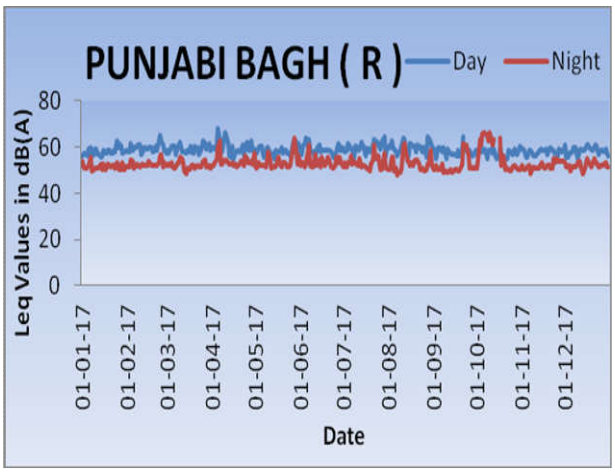


Figure 54: Day time and Night time variation of PUNJABI BAGH

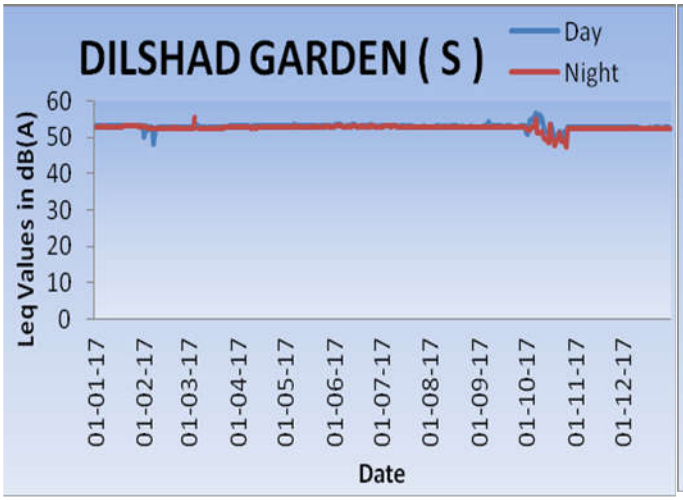


Figure 55: Day time and Night time variation of Dilshad Garden

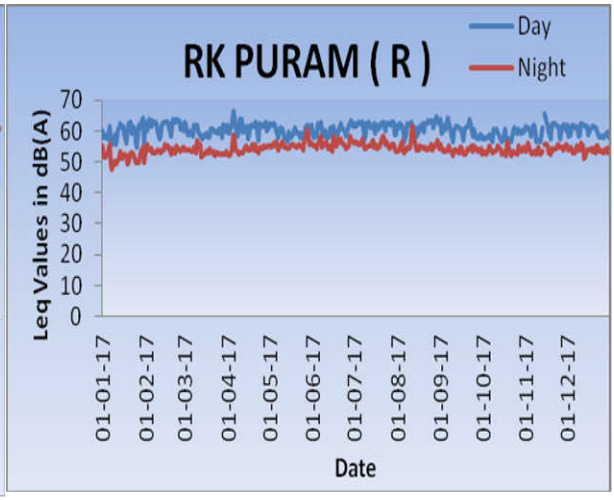


Figure 56: Day time and Night time variation of R K PURAM

Based on above facts and statistical values, following observations are made:

- Out of 10 stations**,** 04 stations (Mandir Marg, Dilshad Garden, NSIT and DCE) are installed at silence zone, 04 stations (Anand Vihar, Civil Lines, CPCB and ITO) are installed at Commercial zone and remaining 02 stations at Punjabi bagh and RK Puram are installed in Residential zone.**.**
- At Anand Vihar, sound level ranges from 62 to 71 dB(A) during day time and 62 to 72 dB(A) during night time. 99% of exceedance of prescribed standard was observed during day time whereas 100% exceedance was observed during night time. 90% of the time sound level of 67 dB(A) was observed during day time and subsequently 63 dB(A) at night time. 364 observations were made during the year 2017. During day time, no sound level ranges between 45 to 55 dB(A) and 04 times sound level fall in the range of 55 to 65 dB(A). No sound level exceeded the 75 dB(A). During night time, no observations fall in the range of 45 to 55 dB(A), 201 observations made in the range of 55 to 65 dB(A).

- Noise Monitoring station installed at Civil Lines have 361 observations during day time and 362 observations during night time. Sound level ranges between 56 to 69 dB(A) during day time and 56 to 66 dB(A) during night time. 5% exceedence of prescribed standard was observed during day time whereas 100% exceedence was observed during night time. 90% of the time**,** 60 dB(A) of sound level observed during day time whereas 57 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 343 observations during day time whereas no sound level falls between 45 to 55 dB(A).
- Noise Monitoring station installed at CPCB have 365 observations during day time and night time. Sound level ranges between 57 to 69 dB(A) during day time and 53 to 68 dB(A) during night time. 78% exceedence of prescribed standard was observed during day time whereas 99% exceedence was observed during night time. 90% of the time**,** 64 dB(A) of observed during day time whereas 56 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 81 observations during day time whereas sound level falls between 45 to 55 dB(A) for 04 observations during night time.
- 365 observations were recorded at DCE's Noise monitoring station during day time and night time. Sound level ranges between 48 to 67 dB(A) during day time and 45 to 59 dB(A) at night time. During day time and night time 100% of exceedance of prescribed norms was observed. 184 observations fall in the range of 45 to 55 dB(A) at day time whereas 283 observations recorded during night time in the range of 45 to 55 dB(A). No sound level exceeded 75 dB(A) at day time and night time.
- At Dilshad Garden, sound level ranges from 48 to 57 dB(A) during day time and 47 to 55 dB(A) during night time. 99% of exceedence of prescribed standard was observed during day time whereas 100% exceedence was observed during night time. 90% of the time sound level of 53 dB(A) was observed during day time and subsequently 52 dB(A) at night time. 365 observations at day time and night time were made during the year 2017. During day time, 360 times - sound level ranges between 45 to 55 dB(A) and 05 times, sound level fall in range of 55 to 65 dB(A). There is no sound level exceeded the 75 dB(A). During night time, 361 observations fall in the range of 45 to 55 dB(A), 02 observations made in the range of 55 to 65 dB(A).
- At ITO station, 100% exceedence was observed during day time and night time. Out of 365 observations, 364 observations recorded in the range of 65 to 75 dB(A) and no observations were more than 75 dB(A) during day time. During night time, 365 observations were recorded and 364 observations falls in range of 65 to 75 dB(A) and no observations above the 75 dB(A). 90% of the time sound level is 70 dB(A) whereas at night time 67 dB(A).
- 365 observations were recorded at Mandir Marg Noise monitoring station during day time and night time. Sound level ranges between 48 to 66 dB(A) during day time and 44 to 69 dB(A) at night time. During day time 96% of exceedence of prescribed norms was observed whereas 100% of exceedence was observed during night time. 123 observations falls in the range of 45 to 55 dB(A) at day time whereas 350 observations recorded during night time in the range of 45 to 55 dB(A). No sound level exceeded 75 dB(A) at day time and night time.
- 365 observations were made at NSIT noise monitoring station at day time and at night time. During day time and night time, 100% of exceedence of prescribed standard was observed. 351 observations were recorded in range of 55 to 65 dB(A) during day time whereas 233 observations were made in range of 45-55 dB(A) at night time.

- At Punjabi Bagh station, 99% exceedence was observed during day and 100% exceedence was observed during night time. Out of 364 observations, 04 observations were recorded in the range of 45 to 55 dB(A) during day time. During night time, 307 observations were recorded in the range of 45 to 55 dB(A). 90% of the time sound level is 56 dB(A) during day time whereas at night time 50 dB(A).
- Noise Monitoring station installed at RK Puram have 364 observations during day time and night time. Sound level ranges between 55 to 67 dB(A) during day time and 47 to 61 dB(A) during night time. 99% exceedance of prescribed standard was observed during day time whereas 100% exceedence was observed during night time. 90% of the time**,** 58 dB(A) of sound level observed during day time whereas 52 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 359 observations during day time whereas sound level falls between 45 to 55 dB(A) for 02 observations.

8.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Delhi is analyzed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in Tables 23 and 24. Graph showing monthly trend for 10 stations is shown in Figures 57 to 66.

Table 23: Monthly Avg. Sound level of first 05 stations of Delhi

Stations	Dilshad Garden		CPCB HQ		DCE		ITO		NSIT	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
January	53	53	65	55	54	49	71	66	57	53
February	58	53	66	56	59	54	71	67	58	54
March	53	53	65	56	56	51	71	67	58	53
April	53	53	65	57	55	51	71	67	57	54
May	53	53	65	58	56	51	71	67	57	53
June	53	53	65	58	58	54	71	67	57	55
July	53	53	66	57	56	55	71	67	56	56
August	53	53	66	56	56	57	71	66	57	54
September	55	53	66	60	58	55	73	68	57	53
October	53	53	66	58	54	50	72	68	57	54
November	53	52	66	56	53	47	73	68	57	54
December	53	52	65	55	53	48	73	68	58	55
Note: *Station was non-operational due to construction work										

Table 24: Monthly Avg. Sound level of remaining 05 stations of Delhi

Stations	Civil Lines		R.K. Puram		AnandVihar		Mandir Marg		Punjabi Bagh	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
January	67	75	59	50	67	63	82	48	58	51
February	62	60	62	52	67	63	58	48	60	52
March	61	59	60	52	67	64	58	49	59	51
April	64	63	62	53	68	64	60	51	62	54
May	63	62	61	55	68	66	56	50	59	54
June	64	63	61	55	69	66	56	53	59	55
July	64	62	62	54	72	67	60	49	60	53
August	62	60	62	54	68	66	59	48	62	69
September	62	58	62	52	69	65	56	48	72	58
October	62	58	59	52	68	65	56	52	75	78
November	78	73	70	69	67	64	69	48	58	51
December	61	58	60	52	67	63	60	48	58	51

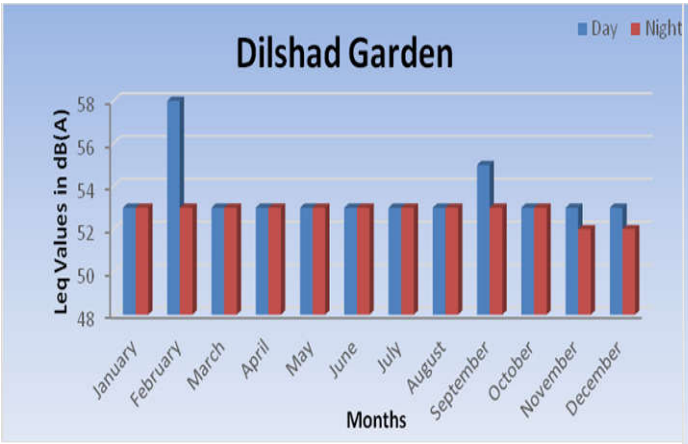


Figure 57: Monthly trend of Dilshad Garden station

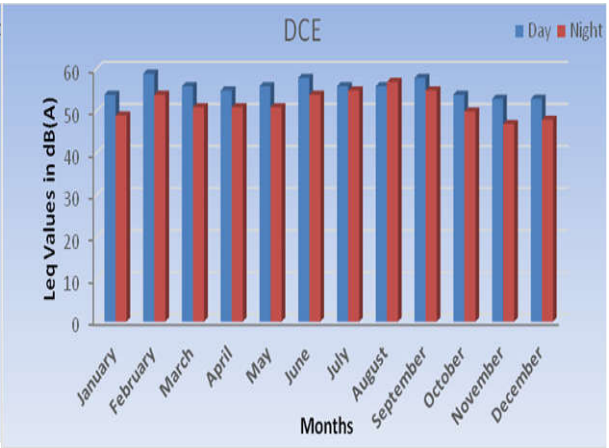


Figure 58: Monthly trend of DCE station

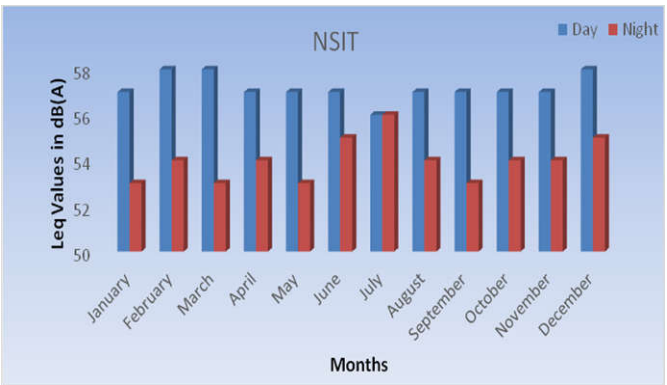


Figure 59: Monthly trend of NSIT station

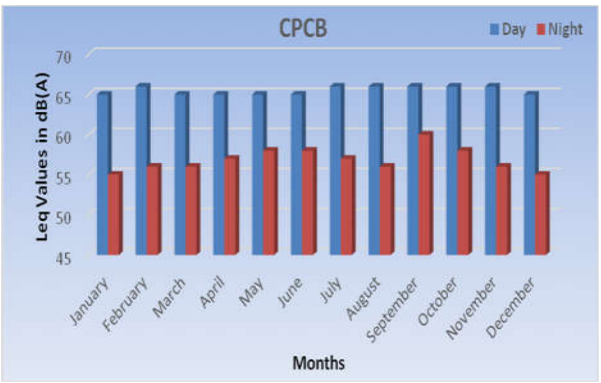


Figure 60: Monthly trend of CPCB station

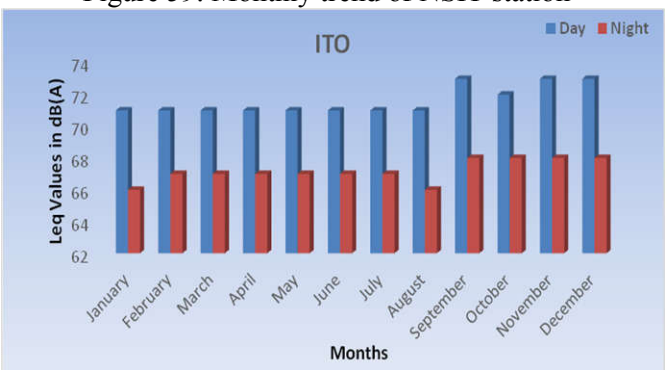


Figure 61: Monthly trend of ITO station

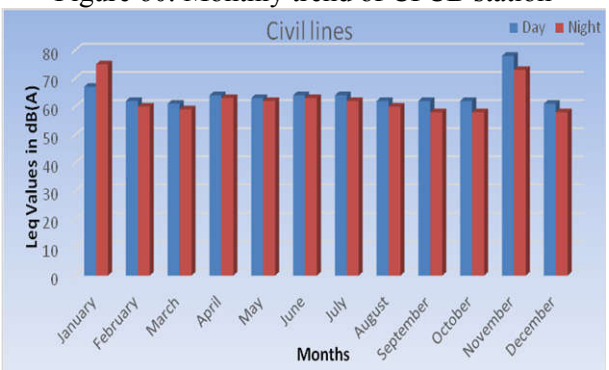


Figure 62: Monthly trend of Civil Lines station

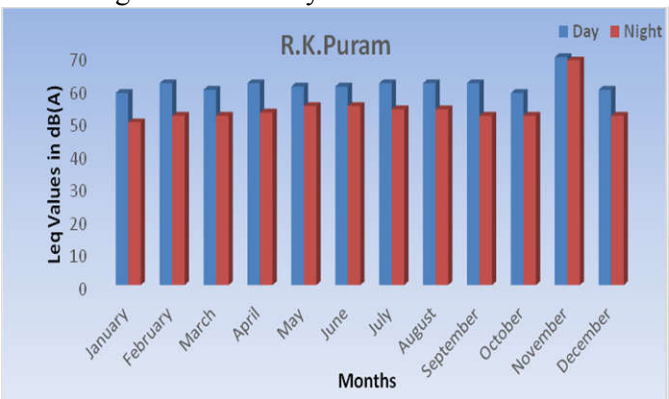


Figure 63: Monthly trend of R.K. Puram station

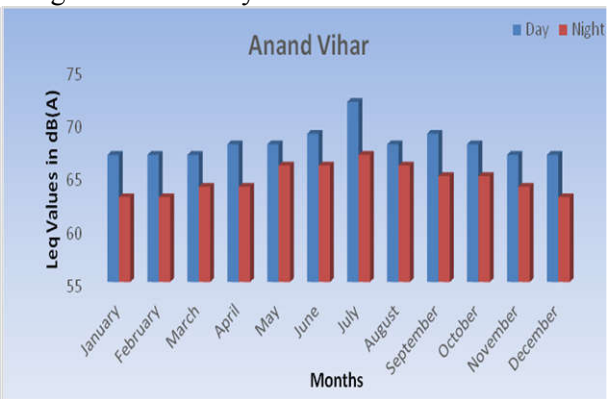


Figure 64: Monthly trend of AnandVihar station

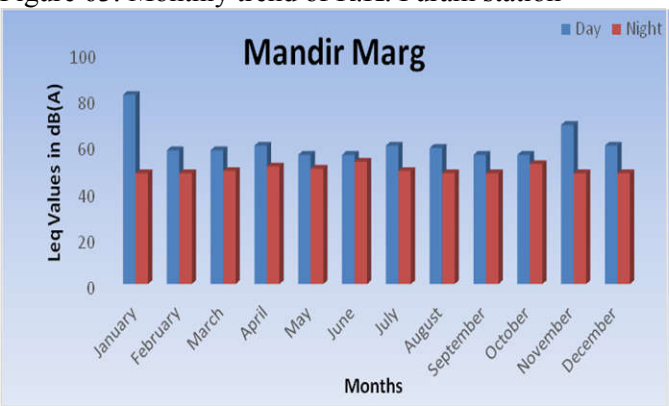


Figure 65: Monthly trend of Mandir Marg station

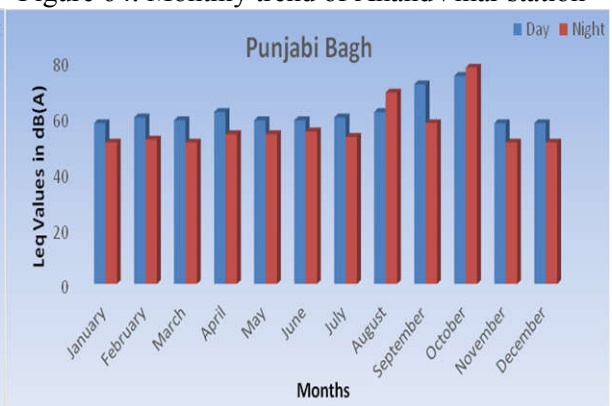


Figure 66: Monthly trend of Punjabi Bagh station

Close examination to above data and graph reveals following observations:

- At Dilshad Garden, sound level varies between 53 to 58 dB(A) for day time whereas 52 to 53 dB(A) for night time.
- Sound level ranges between 65 to 66 dB(A) for day time at CPCB whereas sound level varies from 55 to 60 dB(A) during night time.
- At ITO, Sound level roam around 71 to 73 dB(A) for day time whereas 66 to 68 dB(A) during night time.
- At NSIT, maximum sound level observed was 58 dB(A) and minimum sound level recorded to 56 dB(A) for day time whereas sound level ranges between 53 to 56 dB(A) for night time.
- Sound level ranges between 53 to 59 dB(A) for day time at DCE whereas sound level varies from 47 to 57 dB(A) during night time.
- At Civil Lines, Sound level roam around 61 to 78 dB(A) for day time whereas 58 to 75 dB(A) during night time.
- At R.K Puram, maximum sound level observed was 70 dB(A) and minimum sound level recorded to 59 dB(A) for day time whereas sound level ranges between 50 to 69 dB(A) for night time.
- Sound level ranges between 67 to 72 dB(A) for day time at Anand Vihar whereas sound level varies from 63 to 67 dB(A) during night time.
- At Punjabi Bagh, maximum sound level observed was 75 dB(A) and minimum sound level recorded to 58 dB(A) for day time whereas sound level ranges between 51 to 78 dB(A) for night time.
- Sound level ranges between 56 to 82 dB(A) for day time at Mandir Marg whereas sound level varies from 48 to 53 dB(A) during night time.

8.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Delhi is analyzed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table 25. Graph showing yearly trend for 10 stations is shown in Figure 67.

Table 25: Yearly Avg. Sound level of 10 stations of Delhi

STATIONS	Day Leq. dB(A)	Night Leq. dB(A)	24(hrs.) Leq. dB(A)
Dilshad Garden(S)	54	53	53
CPCB HQ.(C)	66	57	64
DCE(S)	56	52	55
ITO(C)	72	67	70
NSIT(S)	57	54	56
Civil Lines(C)	66	65	65

RKPuram(S)	62	56	61
AnandVihar(C)	68	65	67
Mandir Marg(S)	66	49	63
Punjabi Bagh(R)	64	62	63

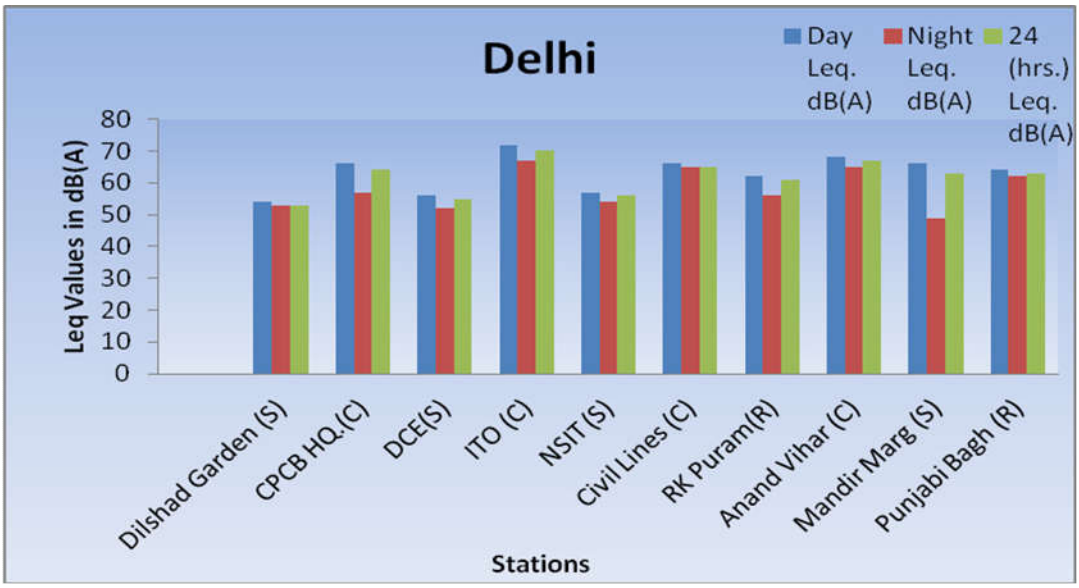


Figure 67: Yearly trend of Delhi's noise monitoring stations

Close examination of Noise Data reveals that sound level at Delhi varies between 54 dB(A) at Dilshad Garden to 72 dB(A) at ITO (C) during day time whereas sound level ranges from 49 dB(A) at Mandir Marg (S) to 67 dB(A) at ITO(C) during night time.

9. AMBIENT NOISE MONITORING OF HYDERABAD

Hyderabad, the common capital of both the southern Indian states of Andhra Pradesh and Telangana, is located at 17.3700° N, 78.4800° E and lies on hilly terrain in Southern India along the banks of the Musi River. Hyderabad is spread over an area of 650 square kilometers (250 sq. mi). Current Population of Hyderabad in 2014 is 6,809,970 as per census – 2011. In Hyderabad, 10 monitoring stations are installed and details are depicted in Table -26 and Figure 68.

Table 26: Monitoring locations of Hyderabad

Sl. No.	Station location	Category	Latitude	Longitude
1.	Abids	Commercial Zone	17º23' 27.42" N	78º28' 25.59" E
2.	Punjagutta	Commercial Zone	17º25' 27.77" N	78º27' 3.74" E
3.	Jeedimetla	Industrial Zone	17º30' 44.12" N	78º28' 10.43" E
4.	Zoo	Silence Zone	17º22' 8.44" N	78º28' 17.42" E
5.	Jubilee Hills	Residential Zone	17º26' 22.08" N	78º23' 58.28" E
6.	Tarnaka	Residential Zone	17º25' 43.57" N	78º32' 15.83" E
7.	Gaddapotharam	Industrial Zone	17º36' 4.1" N	78º22' 19.8" E
8.	Gachibowli	Silence Zone	17º27' 36.1" N	78º20' 3.3" E
9.	Paradise	Commercial Zone	17º26' 36.7" N	78º29' 15.9" E
10.	Kukatpalli	Commercial Zone	17º29' 45.3" N	78º23' 39" E

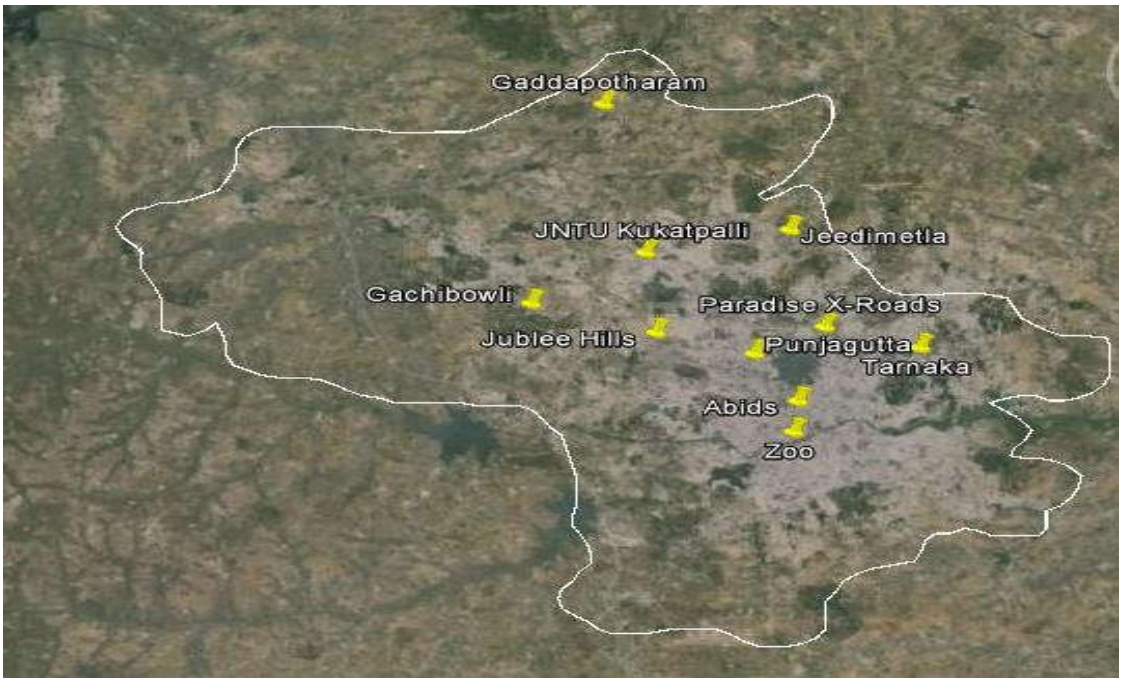


Figure 68: Map shows the monitoring locations of Hyderabad

9.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Hyderabad has been carried out at **10** locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned Table 4 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in the Table 27 and 28. Table 29 and 30 depicts the frequency

distribution data for the year 2017. Graphical representation of each station for the year 2017 is shown in Figure 69 to 78.

Table 27: Statistical behavior of sound level data of first 05 stations for the year 2017

	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla(I)		Jublee hills (R)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**65**	**55**	**50**	**40**	**75**	**70**	**75**	**70**	**55**	**45**
No of Exceedances	365	360	365	365	81	130	20	41	360	365
No of Observations	365	360	365	365	359	361	357	357	361	365
Percentage of Exceedances	100	100	100	100	23	36	6	11	100	100
Max	77	75	68	66	82	80	85	83	69	67
Min	71	65	51	47	40	42	61	50	55	53
Median	74	67	58	52	71	67	67	60	61	56
L10	76	70	63	58	78	75	73	71	62	58
L50	74	67	58	52	71	67	67	60	61	56
L90	73	66	54	50	58	57	65	58	59	54

Table 28: Statistical behavior of sound level data of remaining 05 stations for the year 2017

	TSPCB (C)		JNTU (C)		Paradise(C)		Tarnaka (R)		Zoo (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**65**	**55**	**65**	**55**	**65**	**55**	**55**	**45**	**50**	**40**
No of Exceedances	364	364	364	364	296	326	365	365	365	365
No of Observations	364	364	364	364	337	344	365	365	365	365
Percentage of Exceedance	100	100	100	100	88	95	100	100	100	100
Max	79	76	74	72	78	81	67	67	65	60
Min	69	62	66	62	41	40	57	50	52	47
Median	72	66	70	67	73	73	61	53	55	50
L10	73	67	71	68	74	73	64	60	58	53
L50	72	66	70	67	73	73	61	53	55	50
L90	71	65	69	66	62	68	59	52	53	49

Table 29: Frequency analysis of sound level data of first 05 stations for the year 2017

Frequency of Sound level data	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jubilee hills (R)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	1	5	2	0	0	0	0
45-55	0	0	56	274	22	12	0	2	1	112
55-65	0	2	301	89	62	111	48	293	356	248
65-75	275	357	8	1	188	193	288	46	7	4
>75	89	5	0	0	87	47	28	24	0	0

Table 30: Frequency analysis of sound level data of remaining 05 stations for the year 2017

Frequency of Sound level data	TSPCB (C)		JNTU (C)		Paradise(C)		Tarnaka (R)		Zoo (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time

<45	0	0	0	0	14	14	0	0	0	1
45-55	0	0	0	0	2	7	0	234	171	353
55-65	0	81	0	18	35	11	353	128	193	11
65-75	353	278	363	346	289	304	11	2	1	0
>75	11	5	1	0	07	11	0	0	0	0

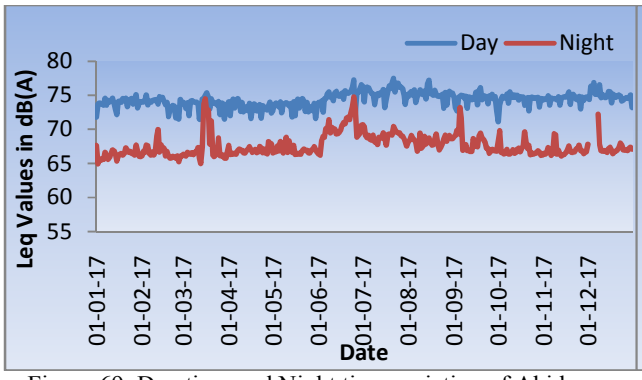


Figure 69: Day time and Night time variation of Abids

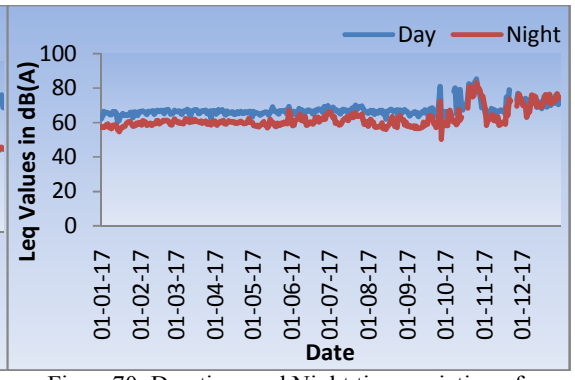


Figure70: Day time and Night time variation of Jeedimetla

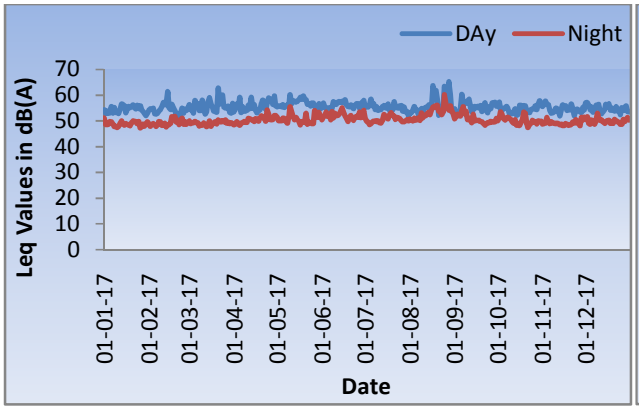


Figure 71: Day time and Night time variation of Zoo

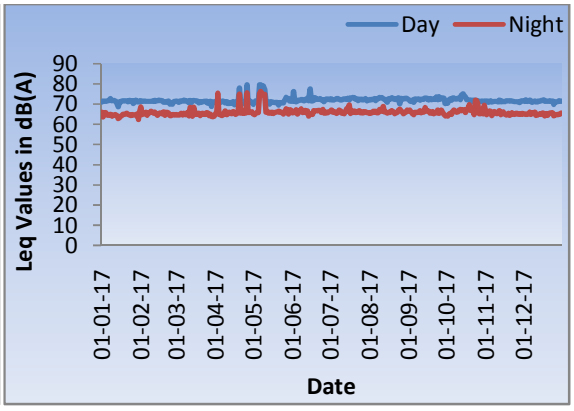


Figure72: Day time and Night time variation of TSPCB

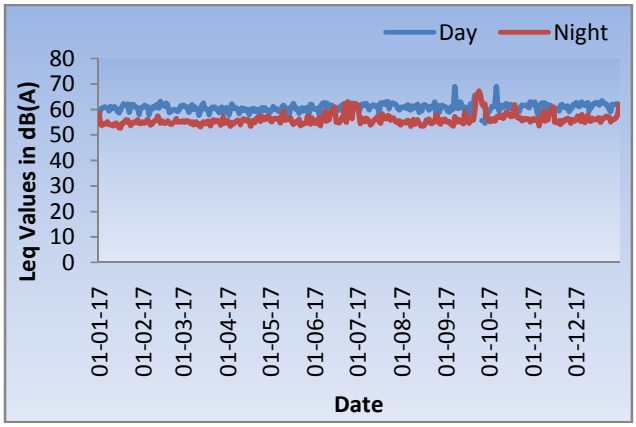


Figure73: Day time and Night time variation of Jubilee Hills

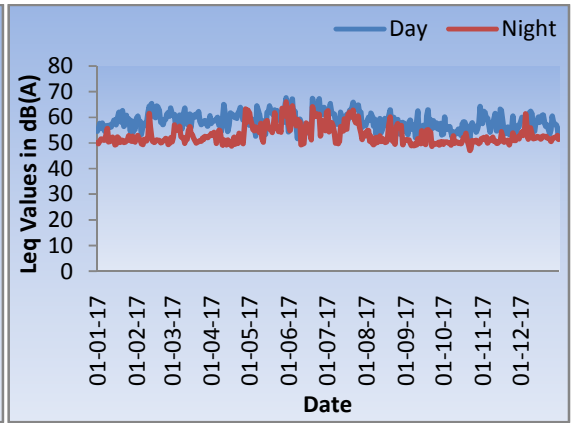


Figure74: Day time and Night time variation of Gachibowli

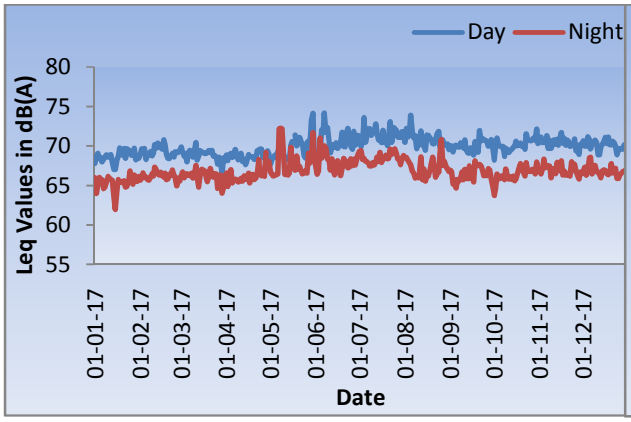


Figure75: Day time and Night time variation of JNTU

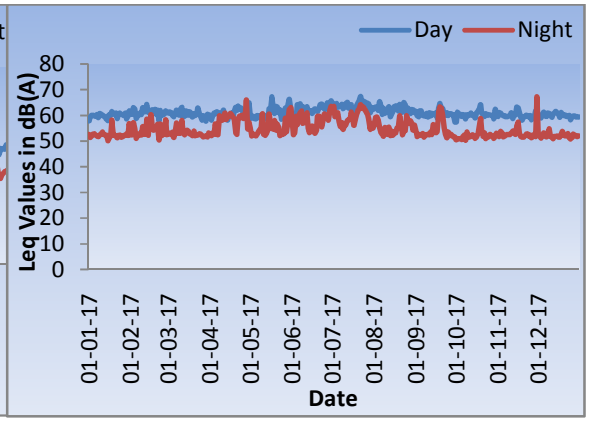


Figure76: Day time and Night time variation of Tarnaka

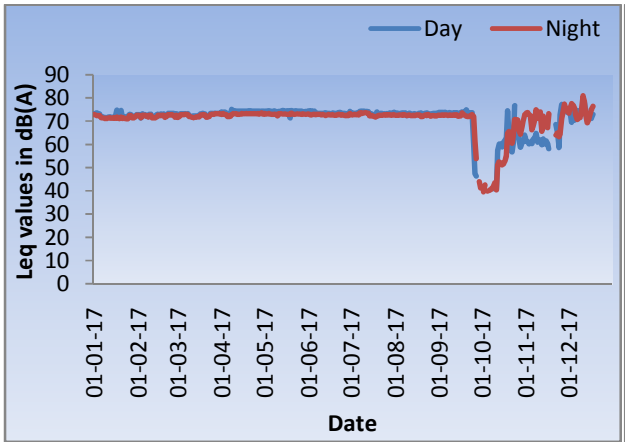


Figure77: Day time and Night time variation of Paradise

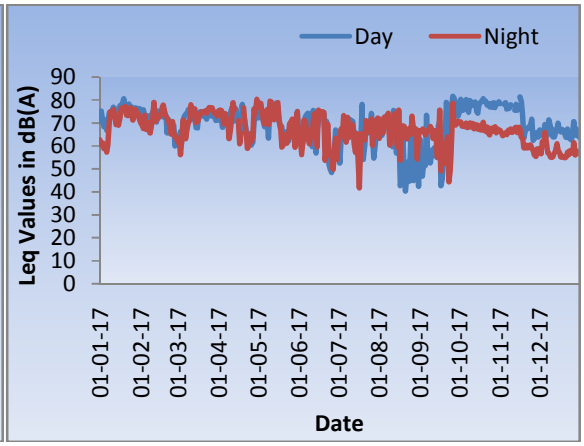


Figure78: Day time and Night time variation of Gaddapotharam

Based on above facts and statistical values, following observations are made:

- At Abids, sound level ranges from 71 to 77 dB(A) during day time and 65 to 75 dB(A) at night time. 100% of exceedance of prescribed standard was observed during day time and also 100% exceedance was observed during night time. 90% of the time sound level of 73 dB(A) was observed during day time and subsequently 66 dB(A) at night time. 365 observations were made during the year 2017. During day time, 275 times - sound level ranges between 65 to 75 dB(A). 89 times, sound level exceeded the 75 dB (A). During night time, there are 02 observations fall in the range of 55 to 65 dB(A), 357 observations made in the range of 65 to 75 dB(A).
- Noise monitoring station installed at Gachibowli has 365 observations during day time and also 365 observations during night time. Sound level ranges between 51 to 68 dB(A) during day time and 47 to 66 dB(A) during night time. 100% exceedance of prescribed standard was observed during day time and 100% exceedance was observed during night time also. Sound level not exceeding more than 75 dB(A) during day time whereas sound level falls between 65 to 75 dB(A) for 08 observations.
- At Gaddapotharam station, 23% exceedance was observed during day time and 36% exceedance was observed during night time. Out of 359 observations, 22 observations recorded in the range of 45 to 55 dB(A) at day time. During night time, out of 361

observations, 12 observations were recorded in the range of 45 to 55 dB(A). 90% of the time sound level is 58 dB(A) during day time whereas at night time 57 dB(A).

- 357 observations were recorded at Jeedimetla Noise monitoring station during day time and 357 observations were made during night time also. Sound level ranges between 61 to 85 dB(A) during day time and 50 to 83 dB(A) at night time. During day time 6% exceedance of prescribed norms was observed. Whereas 11% of exceedance was observed during night time. 48 observations fall in the range of 55 to 65 dB(A) at day time whereas 293 observations recorded in range of 55 to 65 dB(A) at night time. 28-times sound level exceeded 75 dB(A) at day time whereas 24 times exceedance during night time.
- 361 observations were made at Jubilee Hills noise monitoring station at day time and 365 observations were made at night time. During day time, 100% of exceedance of prescribed standard was observed and 100% of exceedance was observed during night time also. 356 observations were recorded in range of 55 to 65 dB(A) during day time whereas 112 observations were made in the range of 45-55 dB(A) at night time. There is no sound level exceeded 75 dB(A) at day time as well as during night time also.
- Noise monitoring station installed at TSPCB has 364 observations during day time and 364 observations during night time also. Sound level ranges between 69 to 79 dB(A) during day time and 62 to 76 dB(A) during night time. 100% exceedance of prescribed standard was observed during day time as well as during night time also. Sound level ranges more than 75 dB(A) for 11 observations during day time whereas 353 sound level falls between 65 to 75 dB(A).
- At JNTU station, 100% exceedance was observed during day and also night time. Out of 364 observations, there is no observation was recorded in the range of 45 to 55 dB(A) at day time. During night time also out of 364 observations, there is no observation was recorded in the range of 45 to 55 dB(A). 90% of the time sound level is 69 dB(A) whereas at night time 66 dB(A).
- 337 observations were made at Paradise noise monitoring station at day time and 344 observations were made at night time. During day time, 88% of exceedance of prescribed standard was observed and 95% of exceedance was observed during night time also. There are 35 observations were recorded in range of 55 to 65 dB(A) during day time whereas 304 observations were made in the range of 65-75 dB(A) at night time. 07 times sound level exceeded 75 dB(A) at day time whereas 11 times during night time.
- Noise monitoring station installed at Tarnaka has 365 observations during day time and 365 observations during night time also. Sound level ranges between 57 to 67 dB(A) during day time and 50 to 67 dB(A) during night time. 100% exceedance of prescribed standard was observed during day time as well as during night time also. There is no Sound level ranges more than 75 dB(A) was observed during day time whereas sound level falls between 65 to 75 dB(A) is 11.
- At Zoo station, 100% exceedance was observed during day and night time. Out of 365 observations, 171 observations were recorded in the range of 45 to 55 dB(A) at day time. During night time, out of 365 observations, 353 observations recorded in the range of 45 to 55 dB(A). 90% of the time sound level is 53 dB(A) whereas at night time 49 dB(A).

9.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Hyderabad is analysed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in Table 31 and 32. Graph showing monthly trend for 05 stations is shown in Figure 79 to 88.

Table 31: Monthly Avg. Sound level data of first 05 stations of Hyderabad

Stations	Abids		TSPCB		Jeedimetla		Zoo		Jubilee Hills	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Stations	Abids		TSPCB		Jeedimetla		Zoo		Jubilee Hills	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	74	65	64	57	60	54	54	48	71	63
February	73	66	66	59	60	54	55	49	71	64
March	74	66	66	59	60	53	56	49	71	64
April	73	65	65	59	60	55	56	51	72	66
May	73	65	66	59	60	55	57	52	73	67
June	75	70	66	62	61	58	57	52	72	66
July	75	68	67	65	61	55	55	50	72	65
August	75	67	66	59	60	54	61	53	72	65
September	74	67	68	60	65	58	58	50	72	65
October	74	66	72	67	62	56	55	50	72	67
November	74	65	78	80	61	56	55	49	71	64
December	75	66	75	76	62	56	55	50	71	64

Table 32: Monthly Avg. Sound level data of remaining 05 stations of Hyderabad

Stations	Tarnaka		Gaddapotharam		Gachibowli		Paradise		JNTU	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	66	54	77	74	58	51	72	72	69	64
February	74	71	76	75	61	52	73	72	69	65
March	63	52	74	76	59	53	73	73	69	65
April	78	75	75	80	67	61	74	73	71	65
May	61	56	75	80	74	77	74	73	72	70
June	63	59	74	74	62	62	73	73	71	67
July	64	60	75	76	62	59	73	73	72	68
August	62	55	82	73	58	54	73	73	71	66
September	61	54	84	75	58	51	72	72	70	65
October	60	54	84	77	56	50	71	64	71	65
November	65	63	82	72	58	51	78	80	71	65
December	60	51	71	65	58	53	88	85	70	66

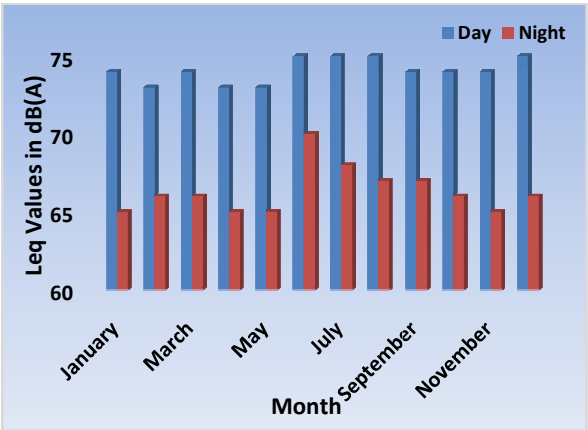


Figure 79: Monthly trend of Abids station

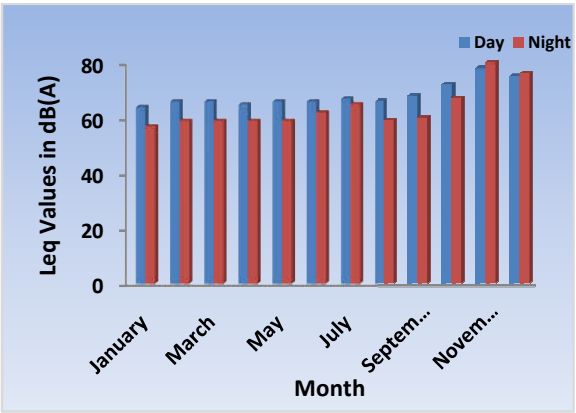


Figure 80: Monthly trend of TSPCB station

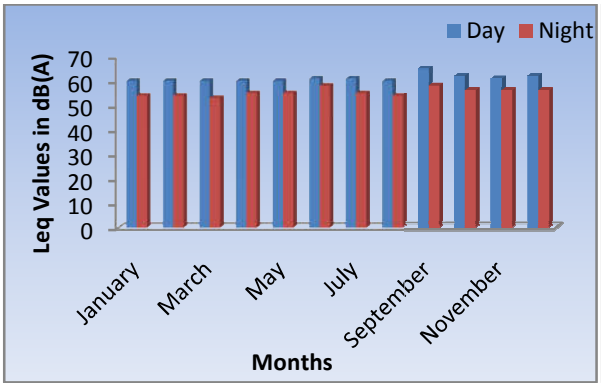


Figure 81: Monthly trend of Jeedimetla station

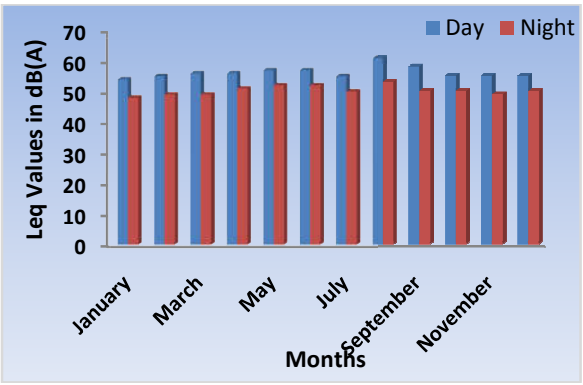


Figure 82: Monthly trend of Zoo station

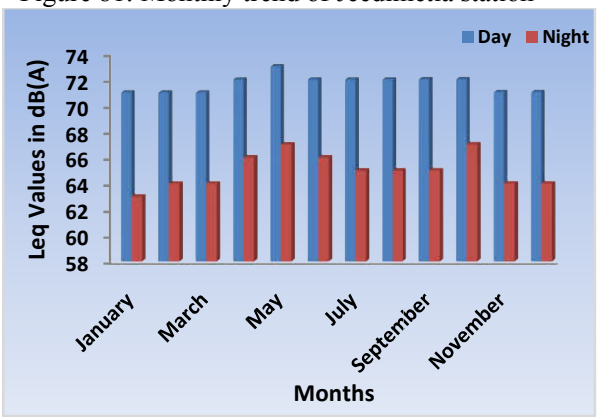


Figure 83: Monthly trend of Jubilee Hills station

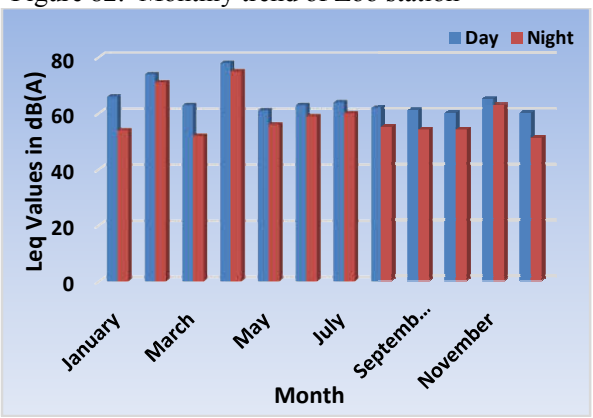


Figure 84: Monthly trend of Tarnaka station

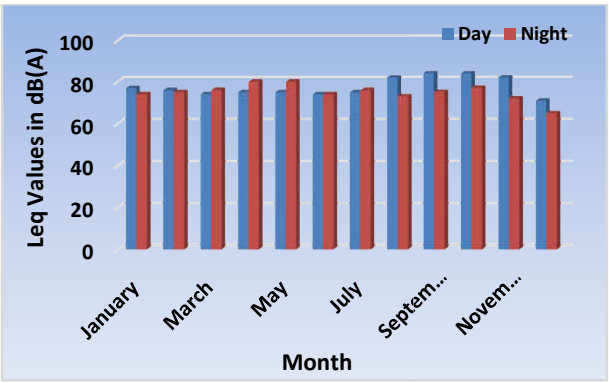


Figure 85: Monthly trend of Gaddapotharam station

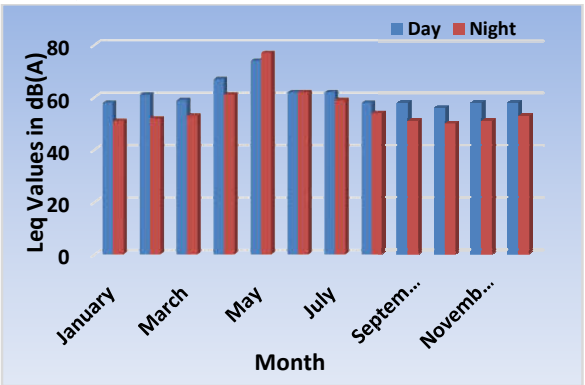


Figure 86: Monthly trend of Gachibowli station

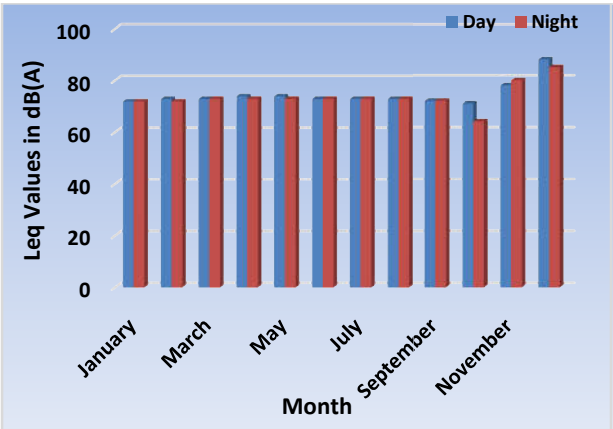


Figure 87: Monthly trend of Paradise station

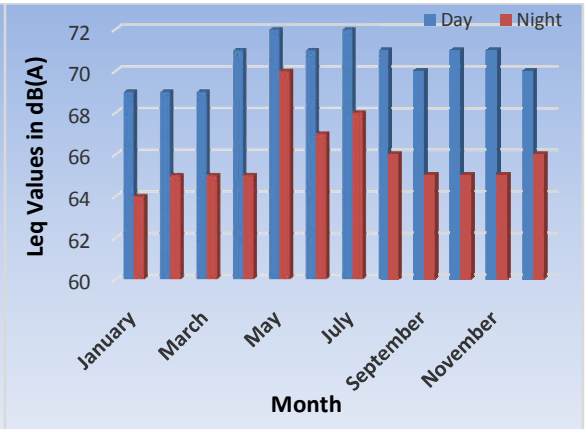


Figure 88: Monthly trend of JNTU station

Close examination to above data and graph reveals following observations:

- At Abids, sound level varies between 73 to 75 dB(A) for day time whereas 65 to 70 dB(A) for night time.
- Sound level ranges between 64 to 78 dB(A) for day time at TSPCB whereas sound level varies from 57 to 80 dB(A) during night time.
- At Jeedimetla, Sound level roam around 60 dB(A) for day time whereas 56 dB(A) during night time. Range of sound level recorded for day time is 60 to 65 dB(A) and 53 to 58 dB(A) for night time.
- At Zoo, maximum sound level observed was 61 dB(A) and minimum sound level recorded to 54 dB(A) for day time whereas sound level ranges between 48 to 53 dB(A) for night time.
- At Jubilee Hills, sound level was recorded 71 to 73 dB(A) for day time whereas 63 to 67 dB(A) for night time.
- At Tarnaka, sound level varies between 60 to 78 dB(A) for day time whereas 51 to 75 dB(A) for night time.
- Sound level ranges between 71 to 84 dB(A) for day time at Gaddapotharam whereas sound level varies from 65 to 80 dB(A) during night time.
- At Gachibowli, range of sound level recorded for day time is 56 to 74 dB(A) and 50 to 77 dB(A) for night time.
- At Paradise, maximum sound level observed was 88 dB(A) and minimum sound level recorded to 71 dB(A) for day time whereas sound level ranges between 64 to 85 dB(A) for night time.
- At JNTU, sound level was recorded 69 to 72 dB(A) for day time whereas 64 to 70 dB(A) for night time.

9.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Hyderabad is analyzed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table 33. Graph showing yearly trend for 10 stations is shown in Figure 89.

Table 33: Yearly Avg. Sound level of 10 stations of Hyderabad

Station	Day Leq. dB(A)	Night Leq. dB(A)	24(hrs.) Leq. dB(A)
Abids(C)	74	66	72
TSPCB(C)	72	65	70
Jeedimetla(I)	74	85	79
Zoo(S)	56	50	55
Jubilee Hills(R)	61	55	60
Tarnaka(R)	67	62	66
Gaddapotharam(I)	78	75	78
Gachibowli(S)	63	60	62
Paradise(C)	76	75	76
Kukatpalli(C)	71	66	69

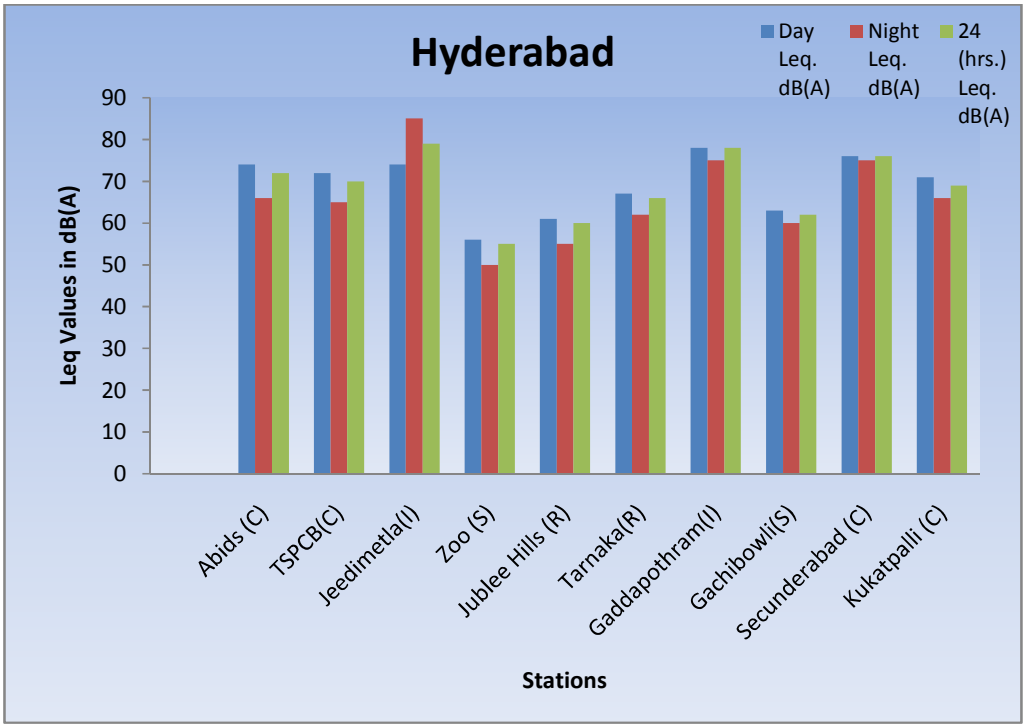


Figure 89: Yearly trend of Hyderabad's noise monitoring stations

Close examination of Noise Data reveals that sound level at Hyderabad ranges between 56 dB(A) at Zoo (S) to 78 dB(A) at Gaddapotharam (I) during Day time whereas sound level ranges between 50 dB(A) at Zoo (S) to 85 dB(A) at Jeedimetla (I) during Night time.

10. AMBIENT NOISE MONITORING OF KOLKATA

Kolkata, the capital of Indian state of West Bengal, is located at 22.5667° N, 88.3667° E, and lies on East bank of the Hooghly River bounded by Bangladesh and Bay of Bengal. Kolkata spread over an area of 1480 square kilometers. In Kolkata, **10** monitoring stations are installed and details are depicted in Table -34 and Figure -90.

Table 34: Monitoring locations of Kolkata

Sl. No.	Station location	Category	Latitude	Longitude
1.	SSKM Hospital	Silence Zone	22º32' 19.58" N	88º20' 35.29" E
2.	Gole Park	Industrial Zone	22º31' 1.2" N	88º24' 15.8" E
3.	Kolkata HQ	Commercial Zone	22º33' 42.67" N	88º24' 32.46" E
4.	Patauli	Residential Zone	22º28' 21.07" N	88º23' 29.71" E
5.	New Market	Commercial Zone	22º33' 41.4" N	88º21' 10.4" E
6.	Birati N.	Residential Zone	22º40' 13.99" N	88º26' 1.74" E
7.	RG Kaur	Silence Zone	22º36' 16.18" N	88º22' 43.20" E
8.	Tollygunge	Commercial Zone	22º29' 56.48" N	88º20' 43.79" E
9.	Bag Bazar	Residential Zone	22º36' 4.61" N	88º22' 1.01" E
10.	Tartala	Industrial Zone	22º30' 56" N	88º18' 19.2" E

Figure 90: Map shows the monitoring locations of Kolkata

10.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Kolkata has been carried out at 10 locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned in Table-5 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in Table-35 and 36. Graphical representation of each station for the year 2015 is shown in Figure 91 to100.

Table 35: Statistical behavior of sound level data of first 05 stations for the year 2017

	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**55**	**45**	**55**	**45**	**75**	**70**	**65**	**55**	**65**	**55**
No of Exceedance	362	363	346	364	13	120	24	365	345	336
No of Observations	362	363	364	364	345	342	365	365	345	336
Percentage of Exceedance	100	100	95	100	4	35	7	100	100	100
Max	79	77	76	70	79	77	68	63	84	82
Min	69	65	53	49	46	48	58	56	67	66
Median	75	69	60	54	69	69	63	57	73	73
L10	76	70	67	62	73	73	65	59	77	77
L50	75	69	60	54	69	69	63	57	73	73
L90	73	68	56	51	61	61	61	57	70	69

Table 36: Statistical behavior of sound level data of remaining 05 stations for the year 2017

	PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**55**	**45**	**50**	**40**	**50**	**40**	**75**	**70**	**65**	**55**
No of Exceedance	349	363	365	365	360	365	0	0	362	365
No of Observations	365	364	365	365	360	365	364	364	365	365
Percentage of Exceedance	96	100	100	100	100	100	0	0	99	100
Max	79	77	70	68	75	72	73	70	69	67
Min	48	42	61	57	61	55	59	57	64	61
Median	64	63	64	60	66	59	65	61	67	64
L10	73	72	66	62	69	63	68	64	68	65
L50	64	63	64	60	66	59	65	61	67	64
L90	59	57	63	58	63	57	62	60	66	63

Table 37: Frequency analysis of sound level data of first 05 stations for the year 2017

Frequency of Sound level data	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	0	0	0	0	0	0	0
45-55	0	0	17	214	8	10	0	0	0	0
55-65	0	0	282	135	84	74	340	364	0	0
65-75	181	359	62	14	239	253	24	0	268	259
>75	180	3	2	0	13	5	0	0	76	76

Table 38: Frequency analysis of sound level data of remaining 05 stations for the year 2017

Frequency of Sound level data	PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	2	0	1	0	1	0	0	0	0
45-55	16	27	1	0	1	1	0	0	0	0
55-65	191	194	287	357	117	350	212	345	3	348
65-75	146	135	77	7	241	13	151	19	361	16
>75	11	6	0	0	1	0	0	0	0	0

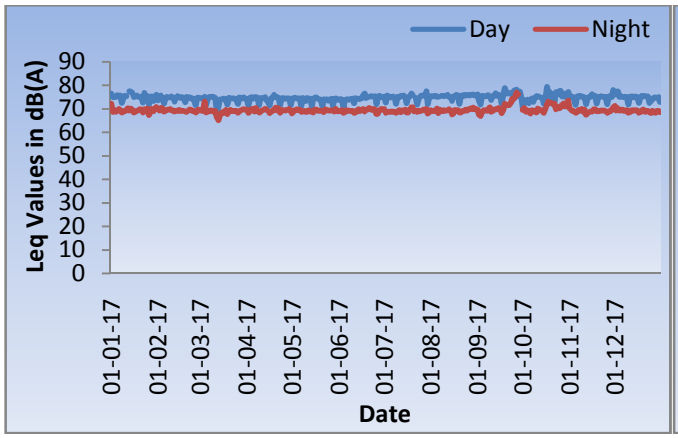


Figure 91: Day time and Night time variation of Bag Bazar

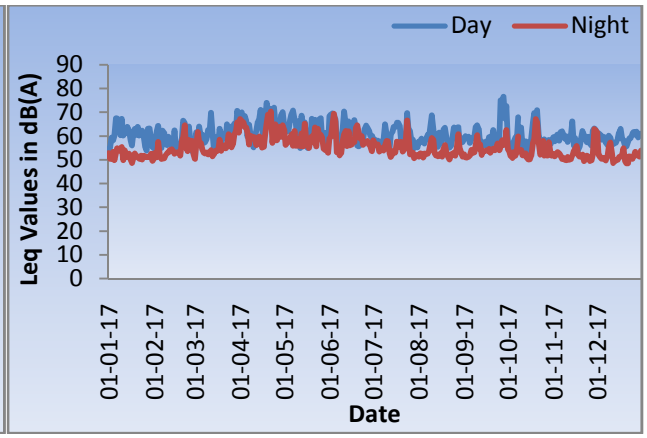


Figure 92: Day time and Night time variation of Birati

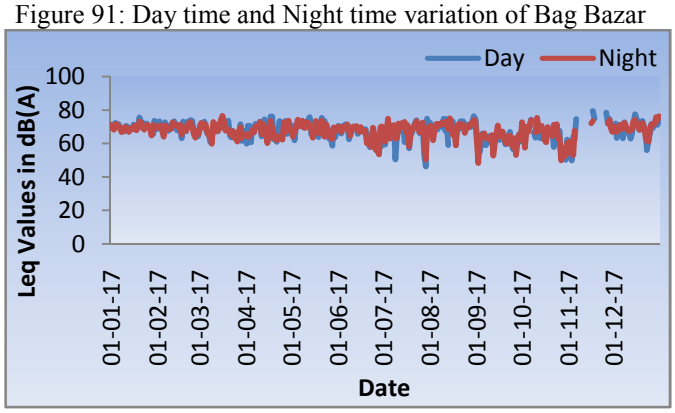


Figure 93: Day time and Night time variation of Gole Park

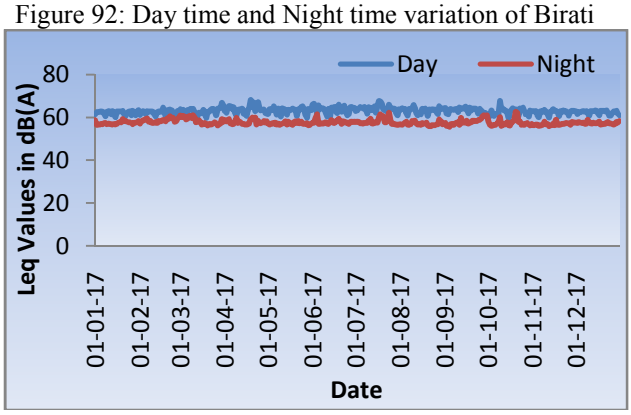


Figure 94: Day time and Night time variation of Kolkata

HQ

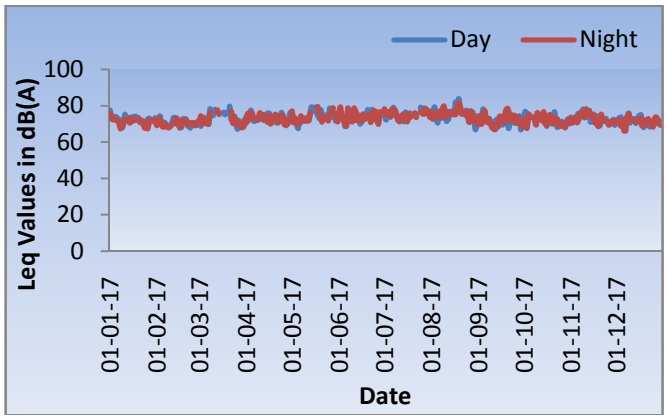


Figure 95: Day time and Night time variation of New Market

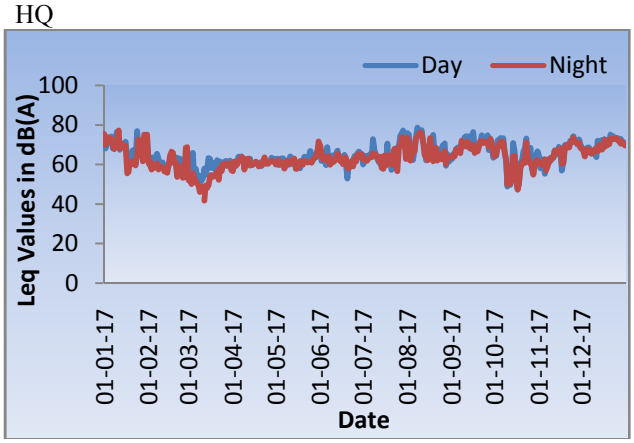


Figure 96: Day time and Night time variation of Patauli

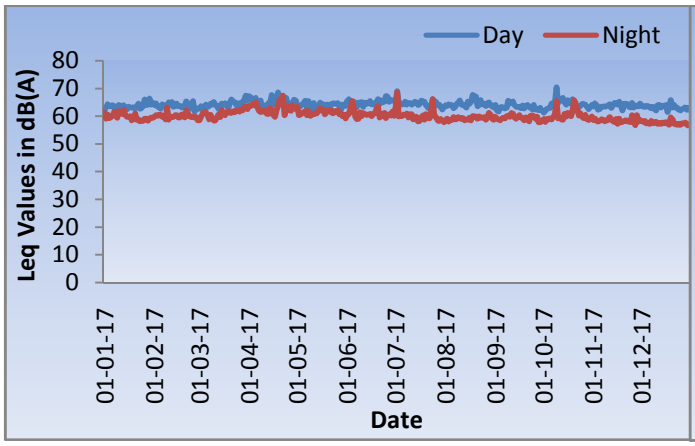


Figure 97: Day time and Night time variation of RGKAUR

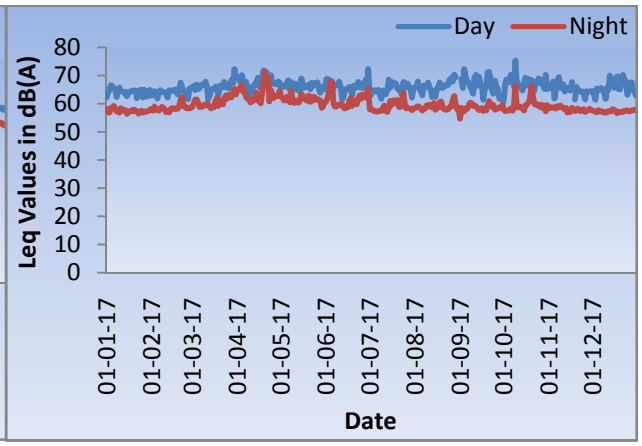


Figure 98: Day time and Night time variation of SSKM Hospital

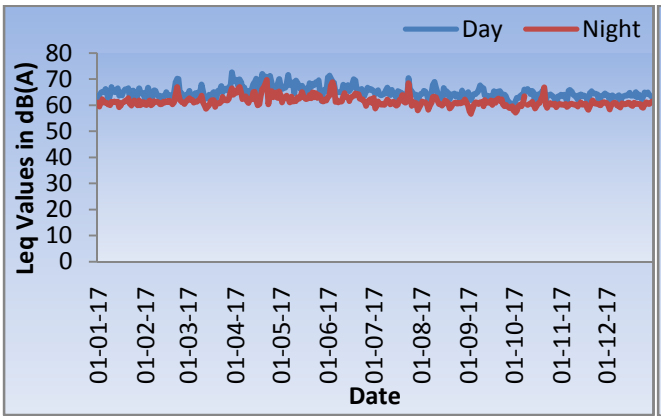


Figure 99: Day time and Night time variation of Tartala

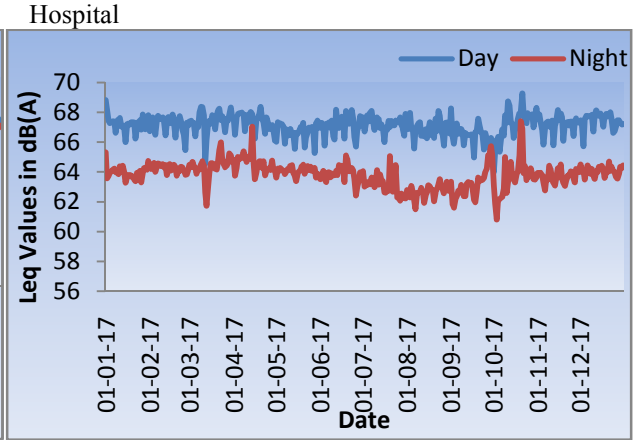


Figure 100: Day time and Night time variation of Tollygunj

Based on above facts and statistical values, following observations are made:

- 362 observations were recorded at BAG BAZAR Noise monitoring station during day and 363 observations were recorded at night time. Sound level ranges between 69 to 79 dB(A) during day time and 65 to 77 dB(A) at night time. During day time and night time 100 % of exceedance of

prescribed norms was observed. No observations fall in the range of 45 to 55 dB(A) at day time as well as during night time. 180 times sound level exceeded 75 dB(A) at day time and 03 times during night time.

- At BIRATI, sound level ranges from 53 to 76 dB(A) during day time and 49 to 70 dB(A) during night time. 95% of exceedance of prescribed standard was observed during day time whereas 100% exceedance was observed during night time. 90% of the time sound level of 56 dB(A) was observed during day time and subsequently 51 dB(A) at night time. 364 observations were made during the year 2017. During day time, 282 times - sound level ranges between 55 to 65 dB(A) and 62 times, sound level fall in range of 65 to 75 dB(A). There are 02 times sound level exceeded the 75 dB(A). During night time, 214 observations fall in the range of 45 to 55 dB(A), 135 observations made in the range of 55 to 65 dB(A).
- Noise Monitoring station installed at GOLE PARK have 345 observations during day time and night time. Sound level ranges between 46 to 79 dB(A) during day time and 48 to 77 dB(A) during night time. 4% exceedance of prescribed standard was observed during day time whereas 35% exceedance was observed during night time. 90% of the time, 61 dB(A) of sound level observed during day time whereas 61 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 84 observations during day time whereas sound level ranges between 55 to 65 dB(A) for 74 observations during night time.
- 365 observations were recorded at KOLKATA HEAD QUARTERS Noise monitoring station during day and night time. Sound level ranges between 58 to 68 dB(A) during day time and 56 to 63 dB(A) at night time. During day time 7% of exceedance of prescribed norms was observed whereas 100% of exceedance was observed during night time. 340 observations fall in the range of 55 to 65 dB(A) at day time whereas 364 observations recorded in range of 55 to 65 dB(A) at night time. No sound level exceeded 75 dB(A) at day time and also during night time.
- 345 observations were made at NEW MARKET noise monitoring station at day time and 336 observations were made at night time. During day time, as well as at night time 100% of exceedance of prescribed standard was observed. 268 observations were recorded in range of 65 to 75 dB(A) during day time whereas 259 observations were made in the range of 65 to 75 dB(A) at night time.
- At PATAULI station, 96% exceedance was observed during day time and 100% exceedance was observed during the night time. Out of 365 observations, 16 observations were recorded in range of 45 to 55 dB(A) and 11 observations were more than 75 dB(A) during day time. During night time, 364 observations were recorded and 27 observations falls in range of 45 to 55 dB(A) and 06 times, sound level ranges more than 75 dB(A). 90% of the time sound level is 59 dB(A) whereas at night time 57 dB(A).
- At RGKAUR, sound level ranges from 61 to 70 dB(A) during day time and 57 to 68 dB(A) during night time. 100% of exceedance of prescribed standard was observed during day time and also 100% exceedance was observed during night time. 90% of the time sound level of 63 dB(A) was observed during day time and subsequently 58 dB(A) at night time. 365 observations were made during the year 2017. During day time, 287 times - sound level ranges between 55 to 65 dB(A) and 77 times, sound level fall in range of 65 to 75 dB(A). No sound level exceeded the 75 dB(A). During night time, zero observations were fall in the range of 45 to 55 dB(A), 357 observations were made in the range of 55 to 65 dB(A).

- At SSKM Hospital, sound level ranges from 61 to 75 dB(A) during day time and 55 to 72 dB(A) during night time. 100% of exceedance of prescribed standard was observed during day time and also 100% exceedance was observed during night time. 90% of the time sound level of 63 dB(A) was observed during day time and subsequently 57 dB(A) at night time. 360 during day time and 365 observations during night time were made for the year 2017. During day time, 117 times - sound level ranges between 55 to 65 dB(A) and 241 times, sound level fall in range of 65 to 75 dB(A). One time sound level exceeded the 75 dB(A). During night time, 01 observations fall in the range of 45 to 55 dB(A), 350 observations were made in the range of 55 to 65 dB(A).
- Noise Monitoring station installed at TARATALA have 364 observations during day time and night time. Sound level ranges between 59 to 73 dB(A) during day time and 57 to 70 dB(A) during night time. There is no exceedance of prescribed standard was observed during day time and also during night time. 90% of the time, 62 dB(A) of sound level observed during day time whereas 60 dB(A) observed during night time. Sound level ranges between 55 to 65 dB(A) for 212 observations during day time whereas sound level ranges between 55 to 65 dB(A) for 345 observations during night time.
- 365 observations were recorded at TOLLY GUNJ Noise monitoring station during day and night time. Sound level ranges between 64 to 69 dB(A) during day time and 61 to 67 dB(A) at night time. During day time 99% of exceedance of prescribed norms was observed whereas 100% of exceedance was observed during night time. 03 observations fall in the range of 55 to 65 dB(A) at day time whereas 348 observations recorded in range of 55 to 65 dB(A) at night time. There is no sound level exceeded 75 dB(A) at day time and also during night time.

10.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Kolkata is analysed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in Table 39 and 40. Graph showing monthly trend for 10 stations is shown in Figure 101 to 110.

Table 39: Monthly Avg. Sound level of first 05 stations of Kolkata

Stations	SSKM Hospital		Gole Park		Head Quarters		Patauli		New Market	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	71	71	73	72	71	72	64	57	62	56
February	71	70	71	71	63	65	64	58	62	58
March	70	70	79	82	59	55	66	61	62	58
April	70	69	74	75	62	62	68	64	63	57
May	71	70	77	80	63	63	66	61	63	56
June	69	68	79	81	64	64	66	62	63	57
July	70	71	81	81	67	66	65	59	64	57
August	72	72	79	78	71	69	67	58	63	56
September	64	65	74	74	71	70	68	59	63	57
October	76	75	86	81	66	64	73	59	63	57
November	82	82	74	74	68	67	66	57	62	56
December	71	71	72	72	71	70	66	56	62	56

Table 40: Monthly Avg. Sound level of remaining 05 stations of Kolkata

Stations	Birati Neelanchal		R G Kar Hospital		Tollygunj		Bag Bazaar		Taratala	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	62	52	64	60	67	63	76	68	64	61
February	62	58	64	61	67	63	74	68	64	62
March	62	58	64	61	67	64	74	68	65	62
April	67	64	66	63	68	64	74	68	68	64
May	66	59	64	61	67	63	74	68	67	63
June	64	61	65	61	67	63	74	68	67	63
July	61	57	64	62	67	62	75	68	65	61
August	61	54	64	59	67	62	76	68	64	61
September	68	57	63	59	66	63	76	71	64	60
October	65	58	65	61	67	63	76	70	65	61
November	68	55	64	58	67	63	75	68	63	60
December	61	51	63	57	67	63	75	68	63	60

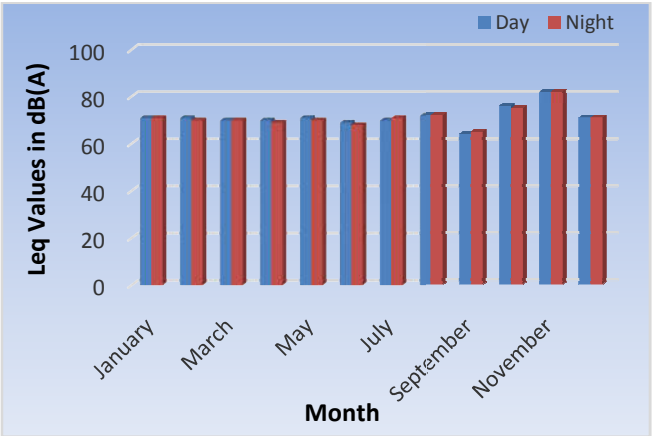


Figure 101: Monthly trend of SSKM Hospital Garden station

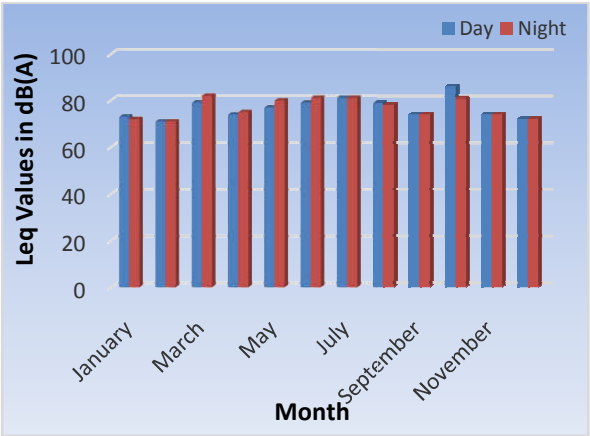


Figure 102: Monthly trend of Gole Park station

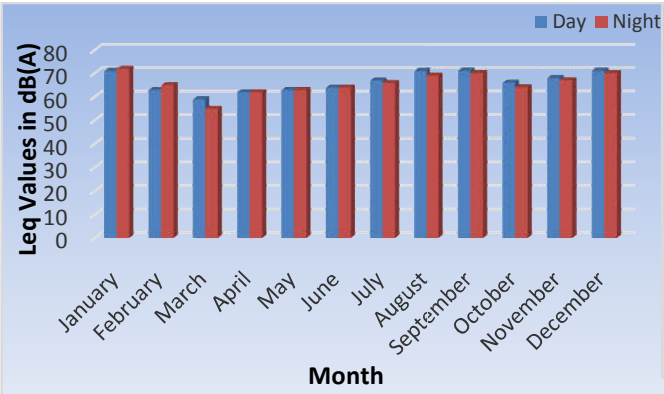


Figure 103: Monthly trend of Head Quarter station

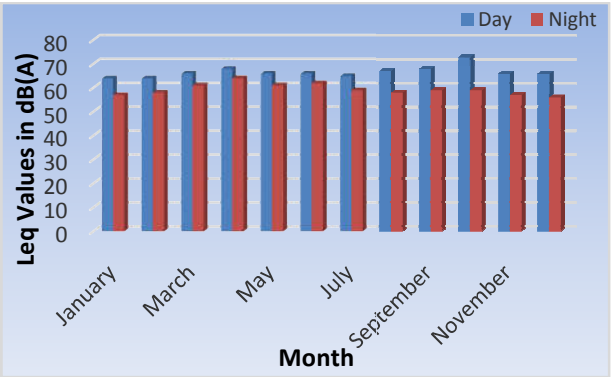


Figure 104: Monthly trend of Patauli station

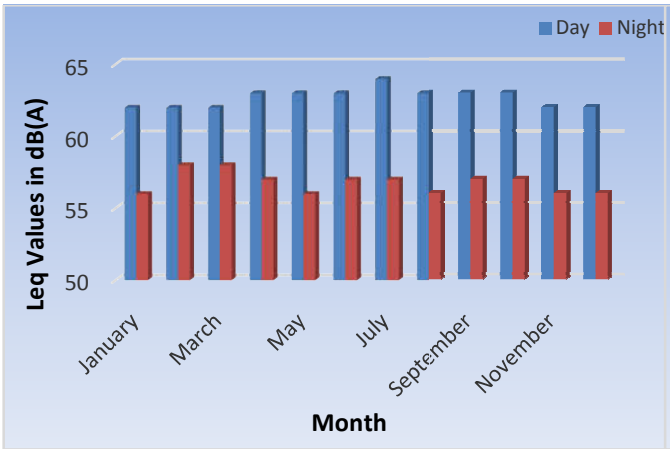


Figure 105: Monthly trend of New Market station

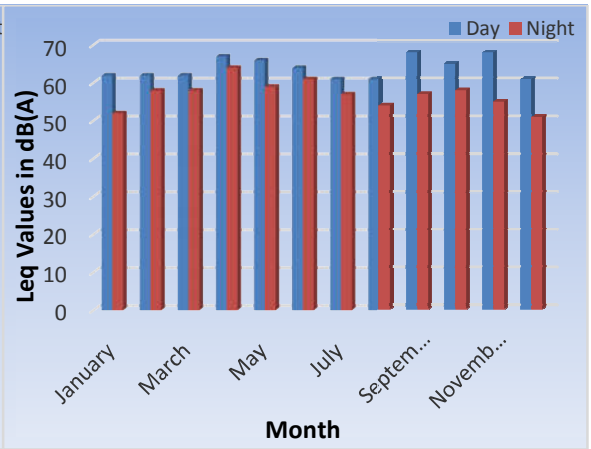


Figure 106: Monthly trend of Birati Neelanchal Station

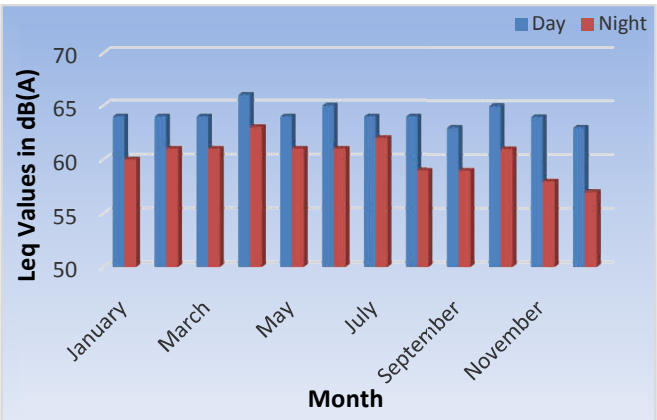


Figure 107: Monthly trend of R G Kar Hospital station

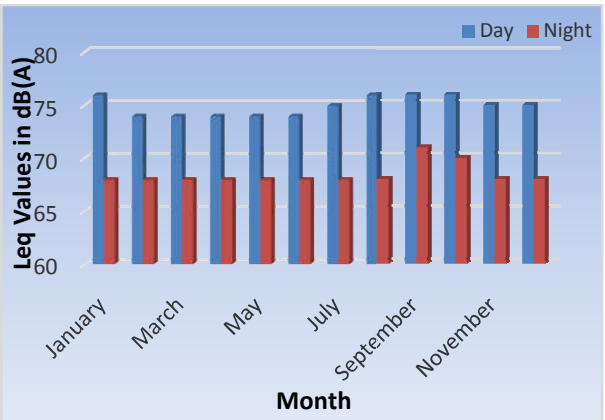


Figure 108: Monthly trend of Bag Bazaar station

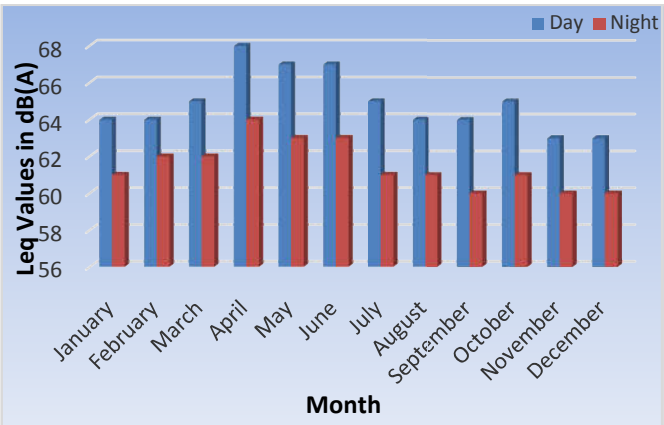


Figure 109: Monthly trend of Taratala

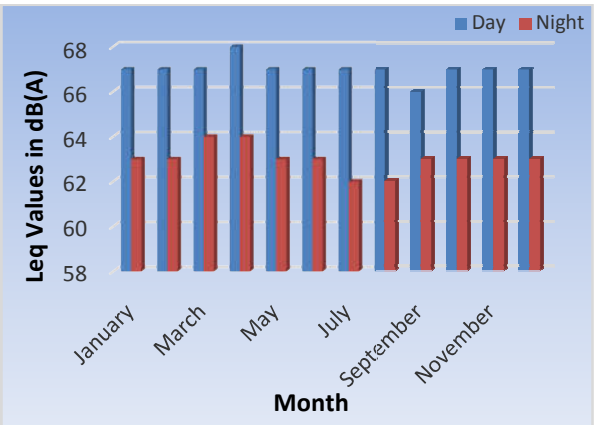


Figure 110: Monthly trend of Tollygunj station

Close examination to above data and graph reveals following observations:

- At SSKM Hospital, sound level varies between 64 to 82 dB(A) for day time whereas 65 to 82 dB(A) for night time.
- Sound level ranges between 71 to 86 dB(A) for day time at Gole Park whereas sound level varies from 71 to 82 dB(A) during night time.

- At Kolkata HQ, range of sound level recorded for day time is 59 to 71 dB(A) and 55 to 72 dB(A).
- At Patauli, maximum sound level observed was 73 dB(A) and minimum sound level recorded to 64 dB(A) for day time whereas sound level ranges between 56 to 64 dB(A) for night time.
- At New Market, sound level was recorded 62 to 64 dB(A) for day time whereas 56 to 58 dB(A) for night time.
- At Birati Neelanchal, sound level varies between 61 to 68 dB(A) for day time whereas 51 to 64 dB(A) for night time.
- Sound level ranges between 63 to 66 dB(A) for day time at R G Kar Hospital whereas sound level varies from 57 to 63 dB(A) during night time.
- At Taratala, Sound level roam around 64 dB(A) for day time whereas 61 dB(A) during night time. Range of sound level recorded for day time is 63 to 68 dB(A) and 60 to 64 dB(A) for the night time.
- At Bag Bazar, maximum sound level observed was 76 dB(A) and minimum sound level recorded to 74 dB(A) for day time whereas sound level ranges between 68 to 71 dB(A) for night time.
- At Tollygunj, sound level was recorded 66 to 68 dB(A) for day time whereas 62 to 64 dB(A) for night time.

10.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Kolkata is analyzed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table 41. Graph showing yearly trend for 10 stations is shown in Figure-111.

Table 41: Yearly Avg. Sound level of 10 stations of Kolkata

STATION	Day Leq. dB(A)	Night Leq. dB(A)	24(hrs.) Leq. dB(A)
SSKM Hospital(S)	67	60	65
Gole Park(I)	73	73	73
Head Quarter(C)	63	57	61
Patauli(R)	67	67	67
New Market(C)	78	78	78
Birati N.(R)	64	58	63
RG Kar (S)	64	60	63
Tollygunge(C)	67	63	66
Bag Bazar(R)	75	68	73
Tartala(I)	65	62	64

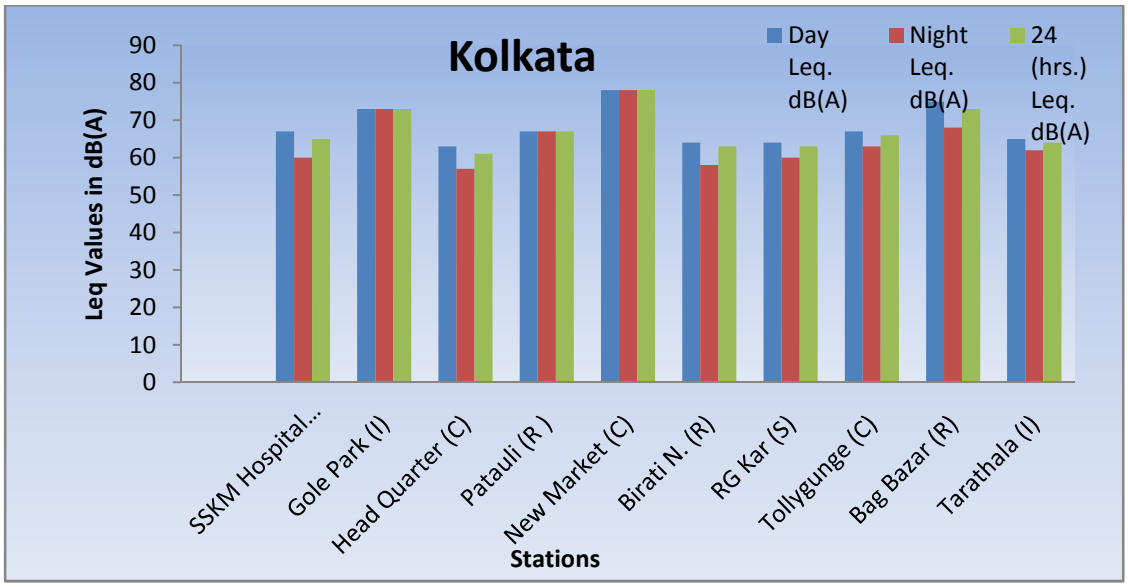


Figure 111: Yearly trend of Kolkata's noise monitoring stations

Close examination of Noise Data reveals that sound level at Kolkata ranges between 63 dB(A) at Head Quarter (C) to 78 dB(A) at New Market (C) during day time whereas sound level ranges between 57 dB(A) at Head Quarter to 78 dB(A) at New Market during night time.

11. AMBIENT NOISE MONITORING OF LUCKNOW

Lucknow the capital of Uttar Pradesh is located at 26.8470° N, 80.9470° E and lies in Northern India. It stands on the northwestern shore of the Gomti River. It is the 8th most populated city of India and the largest in Uttar Pradesh. The city stands at an elevation of approximately 123 meters (404 ft.) above sea level and covers an area of 2,528 square kilometers (976 sq. mi). In Lucknow, 10 monitoring stations are installed and details are depicted in Table-42 and Figure-112.

Table 42: Monitoring locations of Lucknow

Sl. No.	Station location	Category	Latitude	Longitude
1.	Talkatora (I)	Industrial Zone	26º50' 2.44" N	80º53' 30.25" E
2.	Hajrat Gunj (C)	Commercial Zone	26º51' 0.66" N	80º56' 51.59" E
3.	PGI (S)	Silence Zone	26º45' 17.68" N	80º55' 59.53" E
4.	Indira Nagar (R)	Residential Zone	26º53' 25.08" N	80º59' 57.29" E
5.	Gomti Nagar (S)	Silence Zone	26º52' 58.02" N	80º59' 58.02" E
6.	Chinhat	Industrial Zone	26º54' 17.09" N	81º03' 13.08" E
7.	Vibhuti Khand	Residential Zone	26º52' 6.75" N	81º00' 12.54" E
8.	IT College	Silence Zone	26º52' 22.47" N	80º56' 30.28" E
9.	CCS Airport	CommercialZone	26º45' 55.41" N	80º53' 10.91" E
10.	Aligunj	CommercialZone	26º53' 21.89" N	80º56' 24.43" E

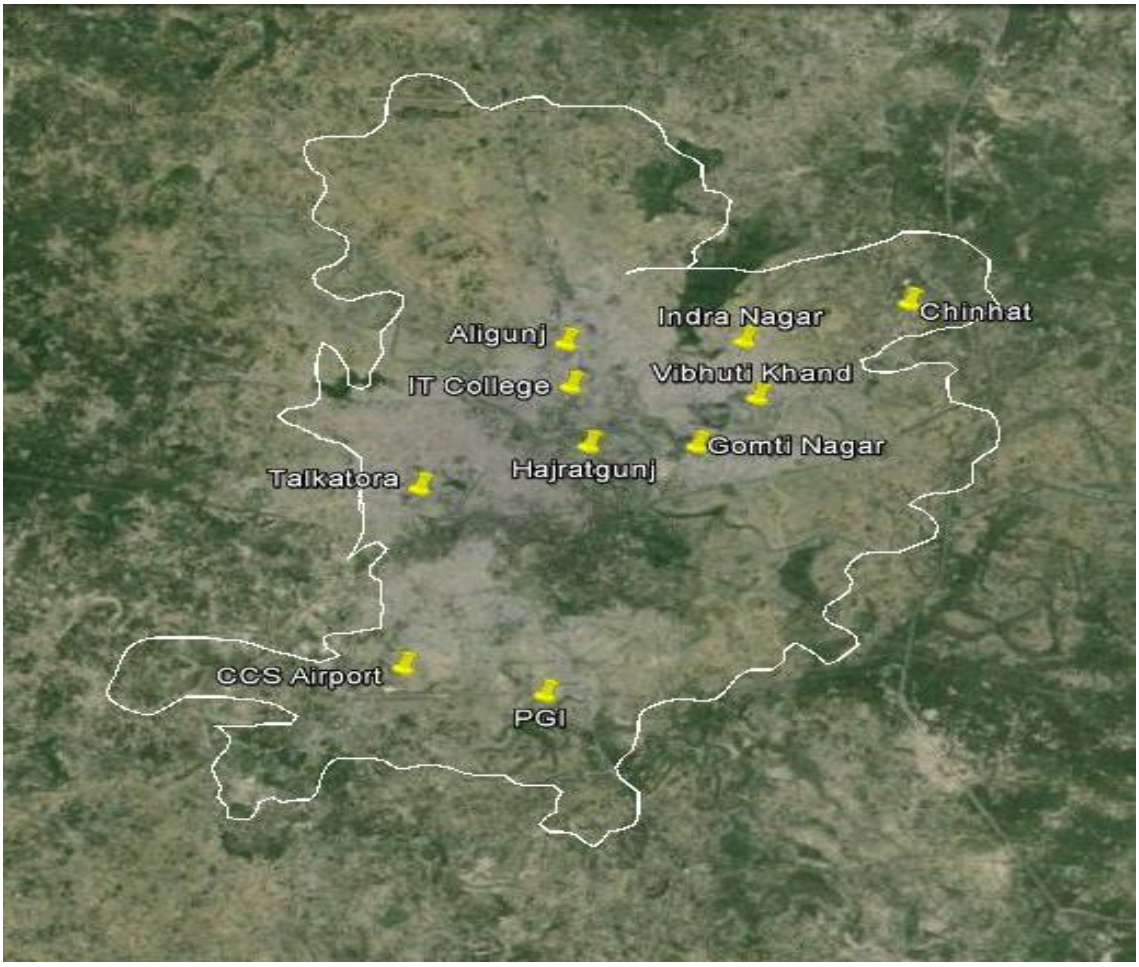


Figure 112: Map shows the monitoring locations of Lucknow

11.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Lucknow has been carried out at 10 locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned Table 6 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in Table 43 and 44.Graphical representation of each station for the year 2017 is shown in Figure 113 to 122.

Table 43: Statistical behavior of sound level data of first 05 stations for the year 2017

	Aligunj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar(S)		Hajrat Ganj (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	65	55	65	55	75	70	50	40	65	55
No of Exceedances	364	364	39	348	0	0	363	363	288	352
No of Observations	364	364	365	365	365	365	363	363	365	365
Percentage of Exceedance	100	100	11	95	0	0	100	100	79	96
Max	78	70	70	68	74	65	69	64	79	78
Min	73	65	56	51	52	44	61	55	54	51
Median	76	68	62	58	66	56	65	59	74	69
L10	77	69	65	62	68	59	67	61	77	73
L50	76	68	62	58	66	56	65	59	74	69
L90	75	67	60	56	59	51	63	57	61	58

Table 44: Statistical behavior of sound level data of remaining 05 stations for the year 2017

	Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	55	45	50	40	50	40	75	70	55	45
No of Exceedances	323	344	365	364	362	364	0	0	359	363
No of Observations	365	363	365	364	362	364	364	358	359	363
Percentage of Exceedances	88	95	100	100	100	100	0	0	100	100
Max	62	61	70	71	67	66	74	67	70	67
Min	53	40	61	55	55	48	59	51	61	53
Median	57	51	65	59	60	55	68	61	64	59
L10	58	53	67	62	63	58	69	63	67	61
L50	57	51	65	59	60	55	68	61	64	59
L90	55	47	63	57	58	51	63	56	63	56

Table 45: Frequency analysis of sound level data for the year 2017

Frequency of Sound level data	Aliganj (C)		CCS Airport(C)		Chinhat (I)		Gomti Nagar(S)		Hazrat Ganj (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	0	0	2	0	1	0	0
45-55	0	0	0	16	6	155	1	1	2	13

Frequency of Sound level data	Aliganj (C)		CCS Airport(C)		Chinhat (I)		Gomti Nagar(S)		Hazrat Ganj (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
55-65	0	1	325	345	146	207	127	361	75	86
65-75	29	362	39	3	212	1	235	0	169	259
>75	334	0	0	0	0	0	0	0	118	6

Table 46: Frequency analysis of sound level data for the year 2017

Frequency of Sound level data	Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	18	0	1	0	1	0	0	0	0
45-55	42	334	1	0	2	213	0	17	0	8
55-65	322	10	192	349	339	148	103	336	245	348
65-75	0	0	172	14	23	2	260	8	113	6
>75	0	0	0	0	0	0	1	0	0	0

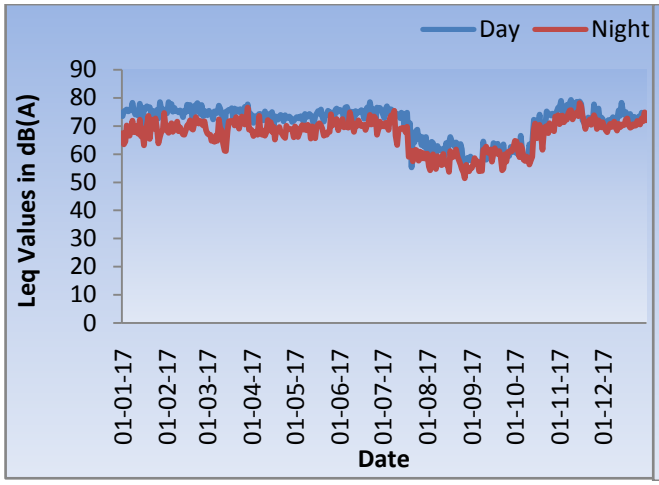


Figure 113: Day time and Night time variation of Hajrat Gunj

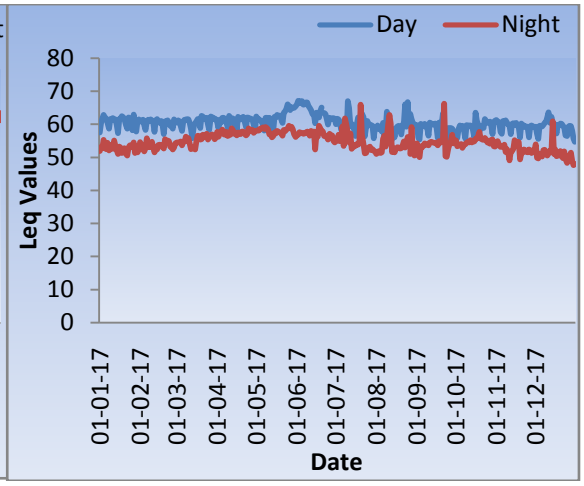


Figure 114: Day time and Night time variation of PGI

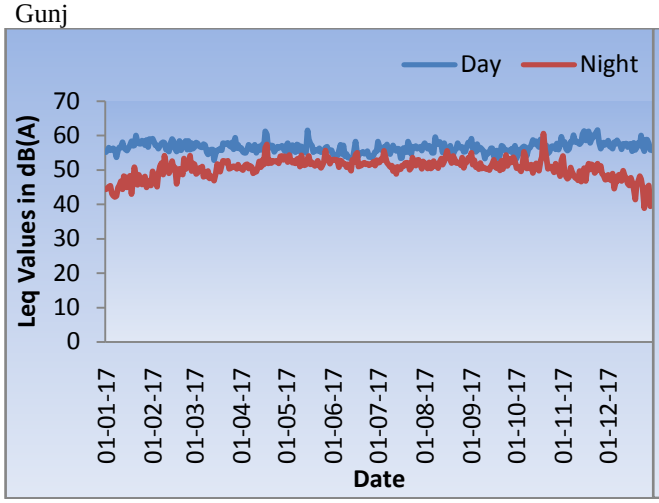


Figure 115: Day time and Night time variation of Indira Nagar

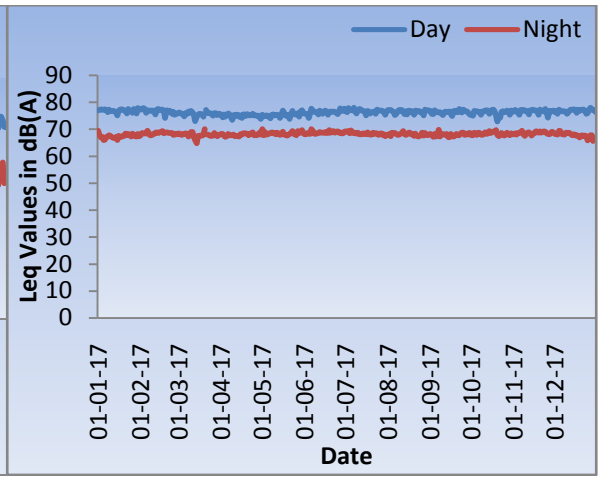


Figure 116: Day time and Night time variation of Aligunj

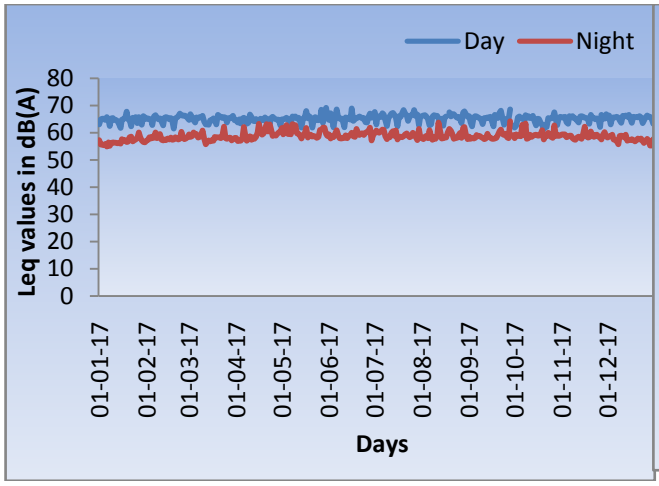


Figure117: Day time and Night time variation of Gomti Nagar

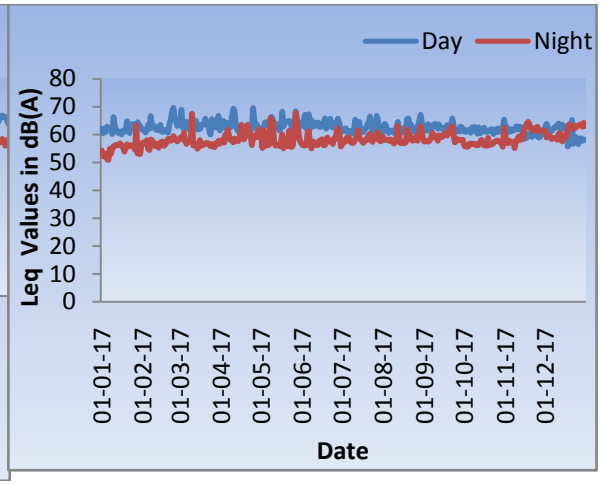


Figure118: Day time and Night time variation of CCS Airport

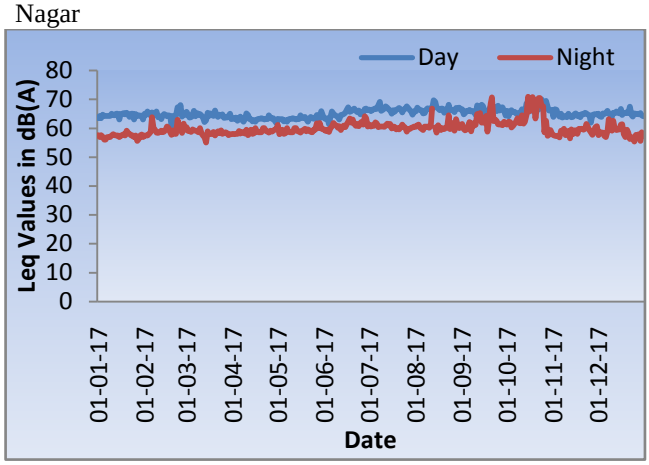


Figure 119: Day time and Night time variation of IT College

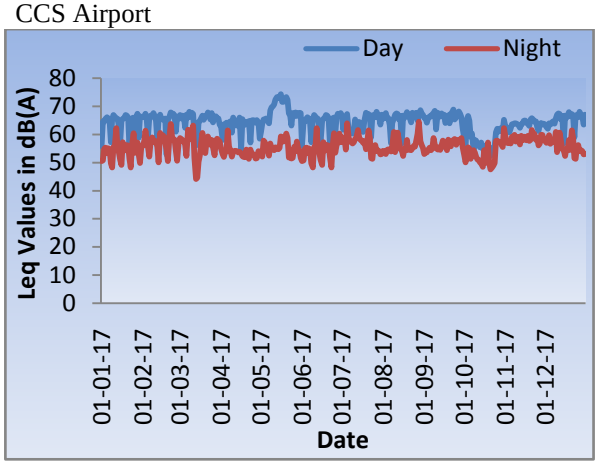


Figure 120: Day time and Night time variation of Chinhat

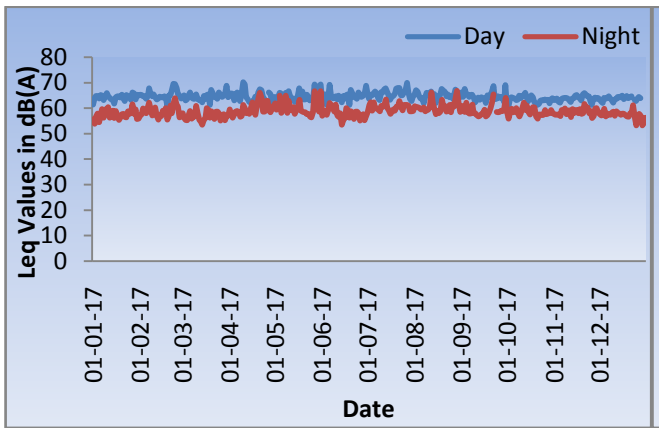


Figure 121: Day time and Night time variation of Vibhuti Khand

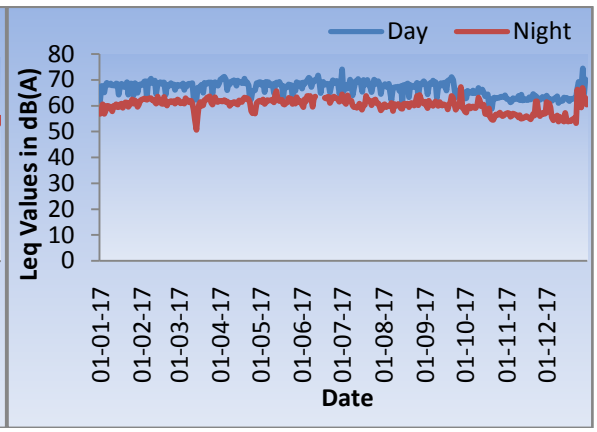


Figure 122: Day time and Night time variation of Talkatora

Based on above facts and statistical values, following observations are made:

- Out of 10 stations, 03 stations (at Gomti Nagar, IT College and PGI) are installed at silence zone, 03 stations (Hazrat gunj, CCS Airport and Aligunj) are installed at Commercial Zone, 02 stations (Talkatora and Chinhat) are installed at Industrial Zone and remaining 02 stations (Indira Nagar and Vibhuti Khand) are installed at Residential Zone.

- At Aligunj, sound level ranges from 73 to 78 dB(A) during day time and 65 to 70 dB(A) during night time. 100% of exceedance of prescribed standard was observed during day time and also 100% exceedance was observed during night time. 90% of the time sound level of 75 dB(A) was observed during day time and subsequently 67 dB(A) at night time. 364 observations were made during the year 2017. During day time, 29 times - sound level ranges between 65 to 75 dB(A) and there is no sound level fall in range of 55 to 65 dB(A). 334 times, sound level exceeded the 75 dB(A). During night time, 01 observation fall in the range of 55 to 65 dB(A), 362 observations made in the range of 65 to 75 dB(A). There was no sound level exceeded the 75 dB(A) during night time.
- Noise Monitoring station installed at CCS Airport have 365 observations during day time and night time. Sound level ranges between 56 to 70 dB(A) during day time and 51 to 68 dB(A) during night time. 11% exceedance of prescribed standard was observed during day time whereas 95% exceedance was observed during night time. Sound level ranges between 55 to 65 dB(A) for 325 observations during day time whereas sound level falls between 65 to 75 dB(A) for 39 observations. During night time, 345 times, sound level ranges between 55 to 65 dB(A) and the 16 sound level falls between 45 to 55 dB(A). Zero time, sound level exceeded the 75 dB(A) at day time and night time also.
- 365 observations were recorded at Chinhat Noise monitoring station during day time and night time. Sound level ranges between 52 to 74 dB(A) during day time and 44 to 65 dB(A) at night time. During day time 0% of exceedance of prescribed norms was observed and also 0% of exceedance was observed during night time. 06 observations were fall in the range of 45 to 55 dB(A) at day time whereas 155 observations were recorded in the range of 45 to 55 dB(A) during night time.
- 363 observations were made at Gomti Nagar noise monitoring station at day time and also night time. During day time and night time, 100% of exceedance of prescribed standard was observed. 235 observations were recorded in the range of 65 to 75 dB(A) during day time whereas 361 observations were made in range of 55-65 dB(A) at night time. 0 times sound level exceeded the 75 dB (A) at day time and in the night.
- Noise Monitoring station installed at Hajrat Ganj have 365 observations during day time and night time. Sound level ranges between 54 to 79 dB(A) during day time and 51 to 78 dB(A) during night time. 79% exceedance of prescribed standard was observed during day time whereas 96% exceedance was observed during night time. Sound level ranges between 55 to 65 dB(A) for 75 observations during day time whereas sound level falls between 65 to 75 dB(A) for 169 observations. During night time, 86 times, sound level ranges between 55 to 65 dB(A) and there is 13 sound level falls between 45 to 55 dB(A). 118 times, sound level exceeded the 75 dB(A) at day time.
- At Indira Nagar station, 88% exceedance was observed during day and 95% exceedance was observed during night time. Out of 365 observations, 42 observations recorded in the range of 45 to 55 dB(A) during day time. During night time, 334 observations were recorded in the range of 45 to 55 dB (A). 90% of the time sound level is 55 dB(A) during day time whereas at night time 47 dB(A).
- At IT College station, 100% exceedance was observed during day and also 100% exceedance was observed during night time. Out of 365 observations, only one observation recorded in the range of 45 to 55 dB(A) during day time. During night time, no observations were recorded in the range of 45 to 55 dB(A). 90% of the time sound level is 63 dB(A) during day time whereas at night time 58 dB(A).

- 362 observations were recorded at PGI's Noise monitoring station during day time and 364 observations were made during night time. Sound level ranges between 55 to 67 dB(A) during day time and 48 to 66 dB(A) at night time. During day time 100% exceedance of prescribed norms was observed and also 100% of exceedance was observed during night time. 02 observations are falls in the range of 45 to 55 dB(A) at day time whereas 213 observations recorded in the range of 45 to 55 dB(A) during night time.
- At Talkatora, sound level ranges from 59 to 74 dB(A) during day time and 51 to 67 dB(A) during night time. 0% exceedance of prescribed standard was observed during day time and night time. 90% of the time sound level of 63 dB(A) was observed during day time and subsequently 56 dB(A) at night time. 364 observations were made at day time and 358 observations were made at night time for the year 2017. During day time, 260 times - sound level ranges between 65 to 75 dB(A) and 103 times, sound level fall in range of 55 to 65 dB(A). 01 time, had sound level exceeded the 75 dB(A). During night time, 336 observations fall in the range of 55 to 65 dB(A), 08 observations made in the range of 65 to 75 dB(A). No sound level exceeded the 75 dB(A) during night time.
- Noise Monitoring station installed at Vibhuti Khand have 359 observations during day time and 363 observations during night time. Sound level ranges between 61 to 70 dB(A) during day time and 53 to 67 dB(A) during night time. 100% exceedance of prescribed standard was observed during day time and also 100% exceedance was observed during night time. Sound level ranges between 55 to 65 dB(A) for 245 observations during day time whereas sound level falls between 65 to 75 dB(A) for 113 observations. During night time, 348 times, sound level ranges between 55 to 65 dB(A) and the 08 sound levels falls between 45 to 55 dB(A).

11.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Lucknow is analysed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in Table 47 and 48. Graph showing monthly trend for 10 stations is shown in Figure 123 to 132.

Table 47: Monthly Avg. Sound level of first 05 stations of Lucknow

Stations	Talkatora		Hazrat Ganj		PGI Hospital		Indira Nagar		Gomti Nagar	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	67	60	75	70	60	54	57	47	66	57
February	68	62	76	71	60	54	57	52	66	58
March	67	60	75	71	60	55	57	51	65	58
April	68	60	73	69	61	58	58	52	65	59
May	67	62	73	69	62	59	58	52	65	61
June	69	68	75	71	66	58	56	52	68	59
July	68	61	72	69	68	66	57	52	69	58
August	67	60	62	58	70	66	57	52	67	58
September	67	60	60	60	61	60	57	52	67	59
October	64	58	70	67	61	54	60	53	68	60
November	63	58	75	75	59	53	59	50	66	58
December	63	58	73	71	59	59	57	46	65	56

Table 48: Monthly Avg. Sound level of remaining 05 stations of Lucknow

Stations	Chinhat		IT College		RSC Aliganj		UPPCB HQ		CCS Airport	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Stations	Chinhat		IT College		RSC Aliganj		UPPCB HQ		CCS Airport	
January	64	55	64	56	76	66	64	58	64	60
February	65	59	67	59	76	67	65	61	64	61
March	65	57	69	58	75	67	65	56	64	61
April	64	54	64	58	75	66	66	60	66	63
May	69	57	64	59	75	67	66	63	64	61
June	65	55	65	60	76	68	65	58	65	61
July	64	58	66	59	76	67	67	61	64	62
August	66	57	73	65	76	66	68	62	64	59
September	66	56	68	69	76	67	67	61	63	59
October	60	53	75	70	76	67	64	58	65	61
November	64	58	68	58	76	67	64	58	64	58
December	65	57	67	58	76	67	71	57	63	57

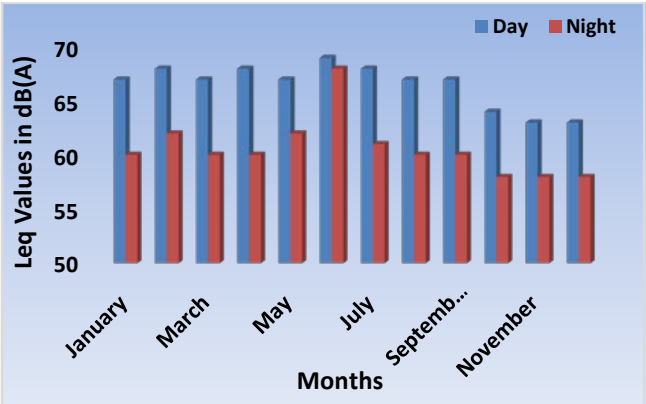


Figure 123: Monthly trend of Talkatora station

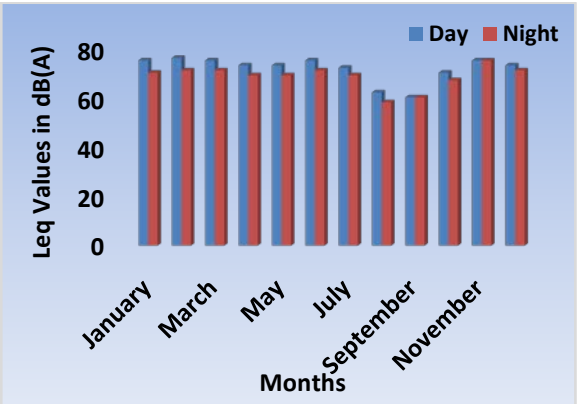


Figure 124: Monthly trend of Hajrat Ganj station

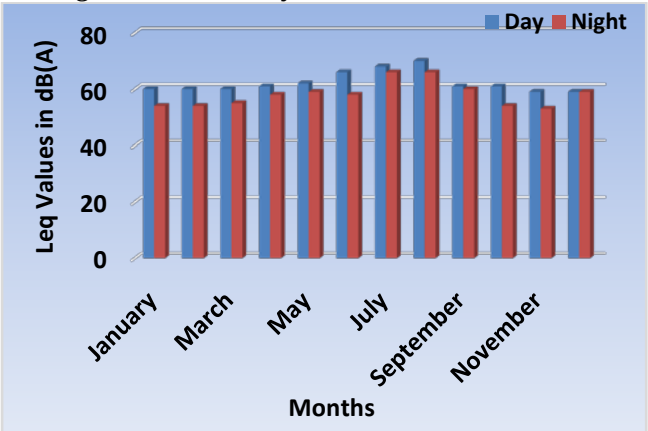


Figure 125: Monthly trend of P.G.I. station

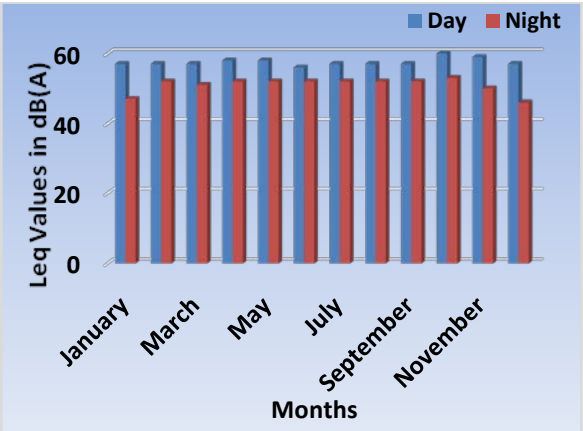


Figure 126: Monthly trend of Indira Nagar station

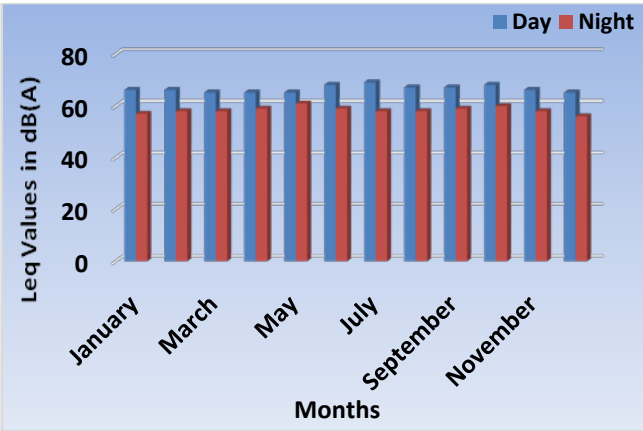


Figure 127: Monthly trend of Gomti Nagar station

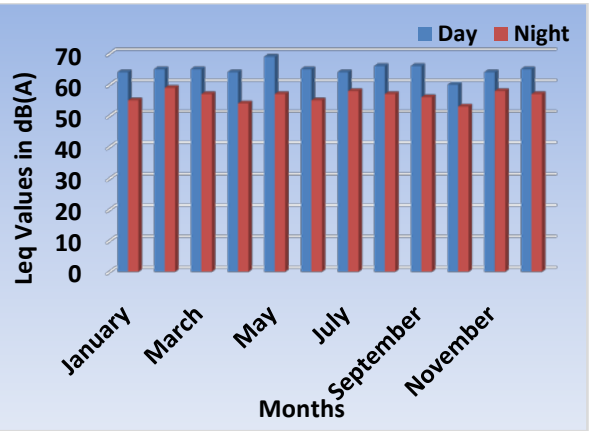


Figure 128: Monthly trend of Chinhat station

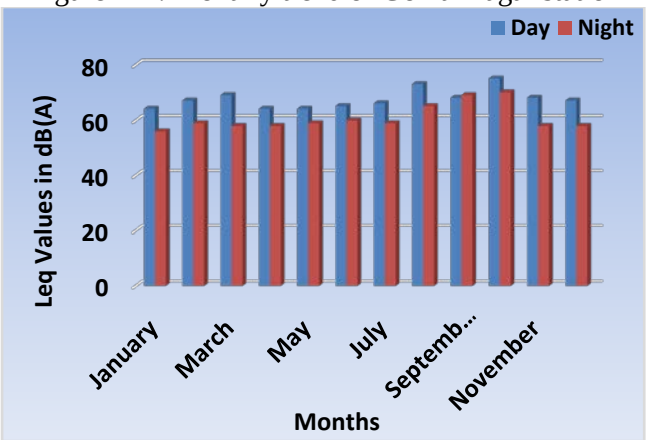


Figure 129: Monthly trend of IT College station

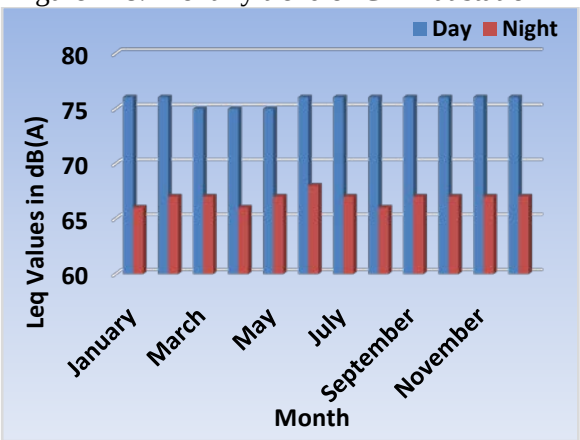


Figure 130: Monthly trend of RSC Aligunj station

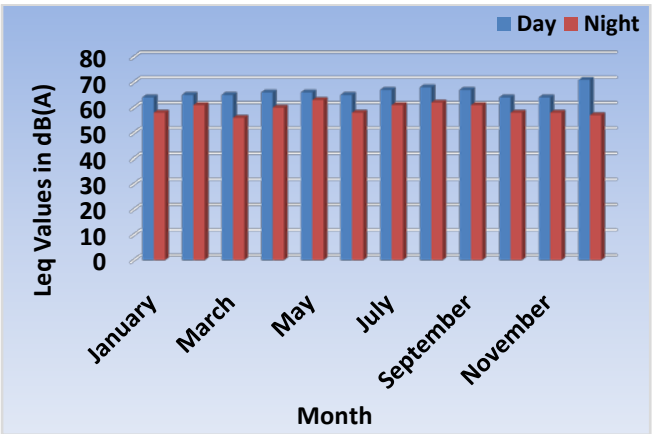


Figure 131: Monthly trend of UPPCB HQ station

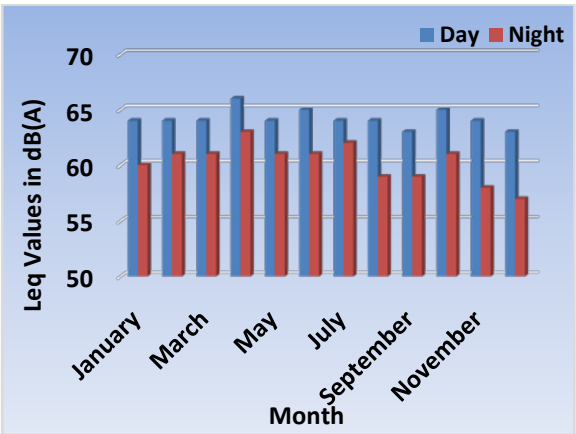


Figure 132: Monthly trend of CCS Airport station

Close examination to above data and graph reveals following observations:

- At Talkatora, sound level varies between 63 to 69 dB(A) for day time whereas 58 to 68 dB(A) for night time.
- Sound level ranges between 60 to 76 dB(A) for day time at Hazrat Ganj whereas sound level varies from 58 to 75 dB(A) during night time.
- At PGI, Sound level ranges between 59 to 70 dB(A) for day time and 53 to 66 dB(A) for night time.

- At Indira Nagar, maximum sound level observed was 60 dB(A) and minimum sound level recorded to 56 dB(A) for day time whereas sound level ranges between 46 to 53 dB(A) for night time.
- At Gomti Nagar, sound level was recorded 65 to 69 dB(A) for day time whereas 56 to 61 dB(A) for night time.
- At Chinhat, sound level varies between 60 to 69 dB(A) for day time whereas 53 to 59 dB(A) for night time.
- Sound level ranges between 64 to 75 dB(A) for day time at IT College whereas sound level varies from 56 to 70 dB(A) during night time.
- At RSC Aliganj, Sound level roam around 76 dB(A) for day time whereas 67 dB(A) during night time. Range of sound level recorded for day time is 75 to 76 dB(A) and 66 to 68 dB(A).
- At UPPCB HQ, maximum sound level observed was 71 dB(A) and minimum sound level recorded to 64 dB(A) for day time whereas sound level ranges between 56 to 63 dB(A) for night time.
- At CCS Airport, sound level was recorded 63 to 66 dB(A) for day time whereas 57 to 63 dB(A) for night time.

11.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Lucknow is analyzed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table 49. Graph showing yearly trend for 10 stations is shown in Figure 133.

Table 49: Yearly Avg. Sound level of 10 stations of Lucknow

STATION	Day Leq. dB(A)	Night Leq. dB(A)	24(hrs.) Leq. dB(A)
Talkatora(I)	67	61	65
Hazrat Gunj(C)	73	69	72
P.G.I.(S)	63	59	62
Indira Nagar(R)	57	51	56
Gomti Nagar(S)	67	59	65
Chinhat(I)	65	56	63
IT College(S)	68	62	67
CSS Airport(C)	76	67	74
RSC Aliganj(C)	66	60	65
Vibhuti Khand(R)	64	60	63

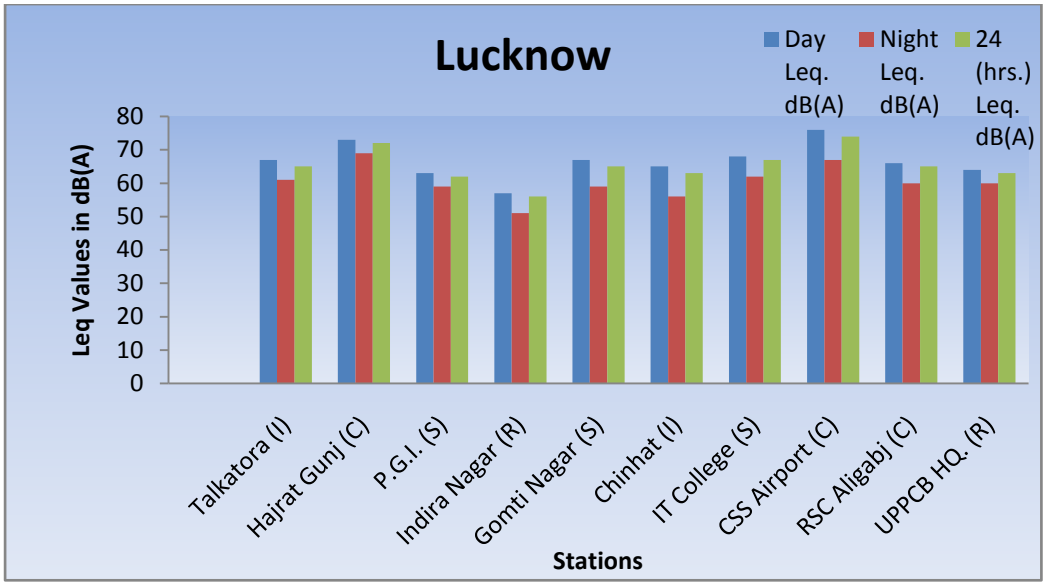


Figure 133: Yearly trend of Lucknow's noise monitoring stations

Close examination of Noise Data reveals that sound level at Lucknow ranges between 51 dB(A) at Indira Nagar (R) to 69 dB(A) at Hazratgunj (C) during night time whereas sound level ranges between 57 dB(A) at Indira Nagar(R) to 76 dB(A) at CSS Airport (C) during day time.

12.AMBIENT NOISE MONITORING OF MUMBAI

Mumbai, the capital of Maharashtra, is located at 18.9750° N, 72.8258° E, and lies in west coast of India and has a deep natural harbor. Mumbai is spread over an area of 603.4 sq. kilometers. In Mumbai, 10 monitoring stations are installed and details are depicted in Table 50 and Figure 134.

Table 50: Monitoring locations of Mumbai

Sl. No.	Station location	Category	Latitude	Longitude
1.	Thane	Commercial Zone	19º0' 57.38" N	72º51' 29.24" E
2.	Vashi Hospital	Silence Zone	19º4' 45.49" N	73º0' 0.12" E
3.	Acworth Hospital	Silence Zone	19º1' 15.83" N	72º51' 33.24" E
4.	Bandra	Commercial Zone	19º3' 20.77" N	72º49' 49.41" E
5.	MPCB Head Quarter	Commercial Zone	19º6' 42.73" N	73º0' 43.80" E
6.	M&M Kandivali	Industrial Zone	19º12' 3.87" N	72º52' 12.14" E
7.	Ambassador Hotel	Commercial Zone	18º56' 0.67" N	72º49' 29.61" E
8.	L&T Powai	Industrial Zone	19º7' 18.31" N	72º53' 34.27" E
9.	Pepsico Chembur	Residential Zone	19º2' 52.89" N	72º54' 37.12" E
10.	Bisleri Andheri	Industrial Zone	19º6' 44.49" N	72º51' 20.71" E

Figure 134: Map shows the monitoring locations of Mumbai

12.1 ANALYSIS OF AMBIENT NOISE MONITORING ON DAILY BASIS

As stated earlier, Real time Ambient Noise Monitoring of Mumbai has been carried out at 10 locations. The Sound level data of said data is processed for daily basis and the data is compared with Ambient Air Quality Standards in Respect of Noise is notified under Noise Pollution (Regulation and Control) Rules, 2000. The Sound Level Data on daily basis for the year 2017 is mentioned in Table 7 of Annexure-I. Statistical discussion of sound level data for the year 2017 is presented in Table 51 and 52. Graphical representation of each station for the year 2016 is shown in Figure 135 to144.

Table 51: Statistical behavior of sound level data of first 05 stations for the year 2017

	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**50**	**40**	**65**	**55**	**75**	**70**	**65**	**55**	**65**	**55**
No of Exceedances	356	353	362	363	13	22	340	362	213	350
No of Observations	356	353	362	363	363	361	362	362	350	351
Percentage of Exceedance	100	100	100	100	4	6	94	100	61	100
Max	79	78	76	73	77	74	76	75	70	69
Min	67	67	66	63	65	61	62	60	54	53
Median	72	72	72	67	71	67	70	69	66	60
L10	69	69	70	66	68	65	66	66	62	59
L50	72	72	72	67	71	67	70	69	66	60
L90	76	76	73	69	74	69	73	73	68	66

Table 52: Statistical behavior of sound level data of remaining 05 stations for the year 2017

	LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		Thane TMCO (C)		Vashi Hospital (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	**75**	**70**	**75**	**70**	**55**	**45**	**65**	**55**	**50**	**40**
No of Exceedances	0	0	0	0	360	365	25	182	361	284
No of Observations	365	365	364	364	363	365	365	365	361	284
Percentage of Exceedances	0	0	0	0	99	100	7	50	100	100
Max	67	66	68	68	69	68	67	65	78	79
Min	52	48	56	52	54	50	52	52	63	58
Median	58	53	61	54	64	57	61	55	71	63
L10	56	50	59	53	61	56	54	53	68	60
L50	58	53	61	54	64	57	61	55	71	63
L90	61	58	62	57	66	65	65	64	74	71

Table 53: Frequency analysis of sound level data for the year 2017

Frequency of Sound level data	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	0	0	0	0	0	0	0
45-55	0	0	0	0	0	0	0	0	1	1
55-65	0	0	0	16	2	38	22	26	136	311
65-75	303	306	357	347	348	323	332	336	213	39
>75	53	47	5	0	13	0	8	0	0	0

Table 54: Frequency analysis of sound level data for the year 2017

Frequency of Sound level data	LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		Thane TMCO (C)		Vashi Hospital (S)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<45	0	0	0	0	0	0	0	0	0	0
45-55	23	267	0	266	3	18	167	183	0	0
55-65	341	97	360	95	231	318	173	182	1	208
65-75	1	1	4	3	129	29	25	0	348	70
>75	0	0	0	0	0	0	0	0	12	6

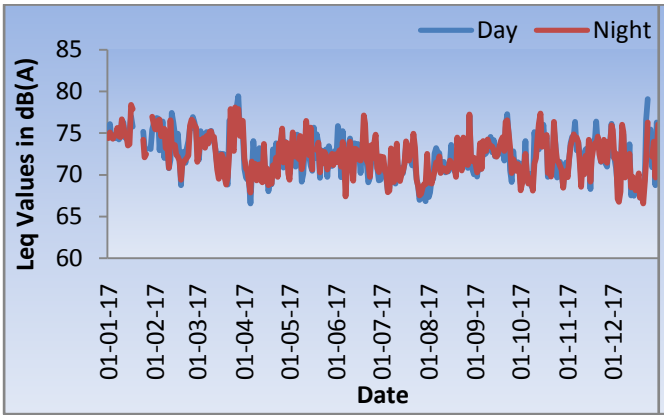


Figure 135: Day time and Night time variation of Acworth Hospital

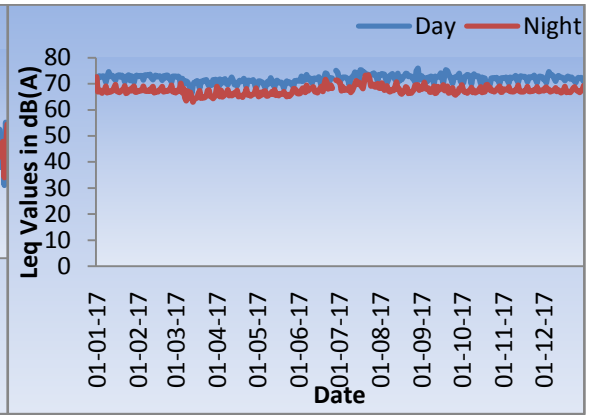


Figure 136: Day time and Night time variation of Ambassador

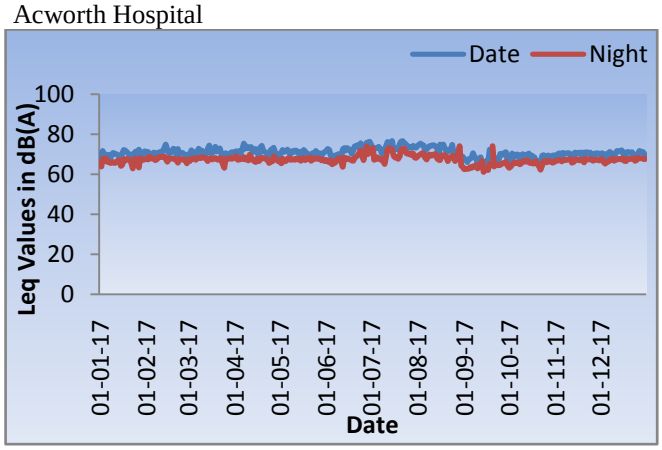


Figure 137: Day time and Night time variation of Bisleri Andheri

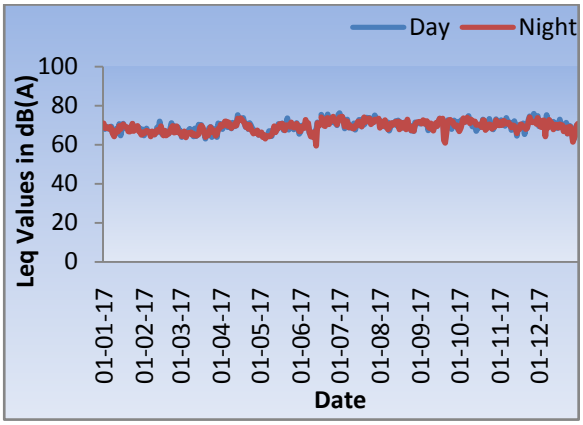


Figure 138: Day time and Night time variation of Bandra

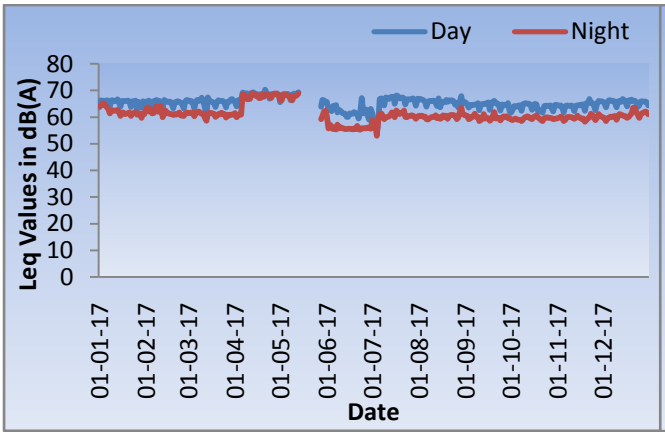


Figure 139: Day time and Night time variation of MPCB HC

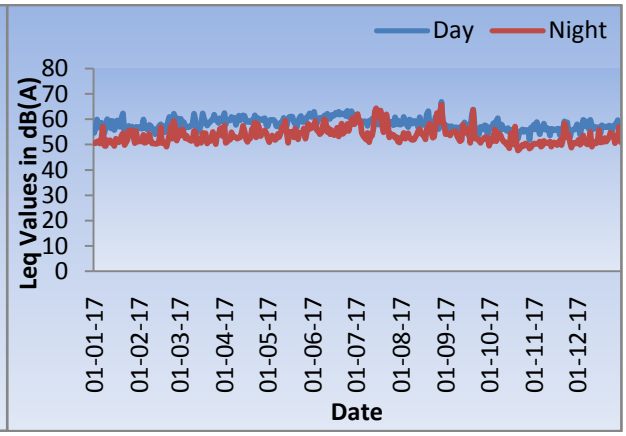


Figure 140: Day time and Night time variation of LT Powai

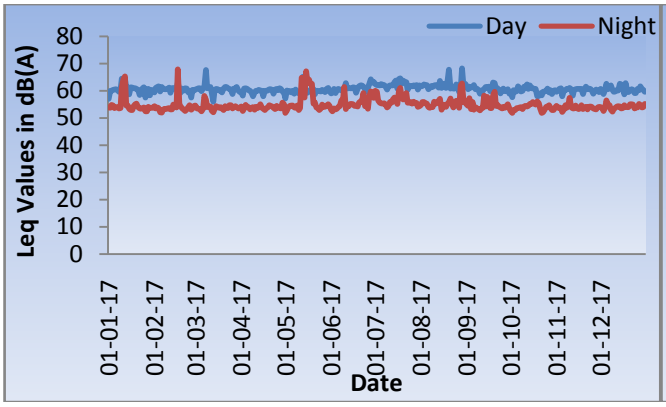


Figure 141: Day time and Night time variation of MM Kandivali

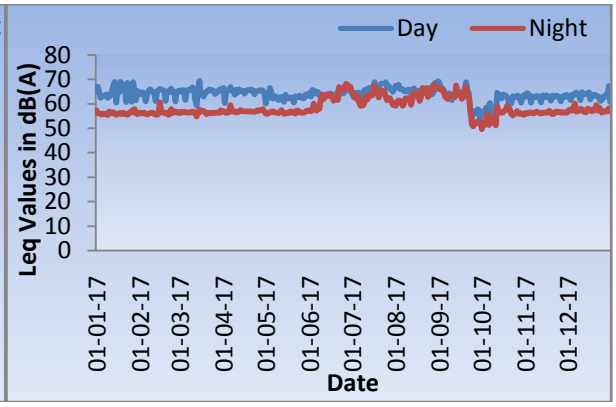


Figure 142: Day time and Night time variation of Pepsico Chembur

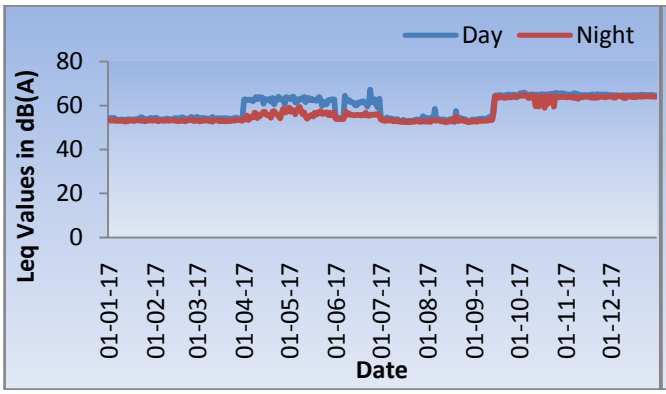


Figure 143: Day time and Night time variation of Thane

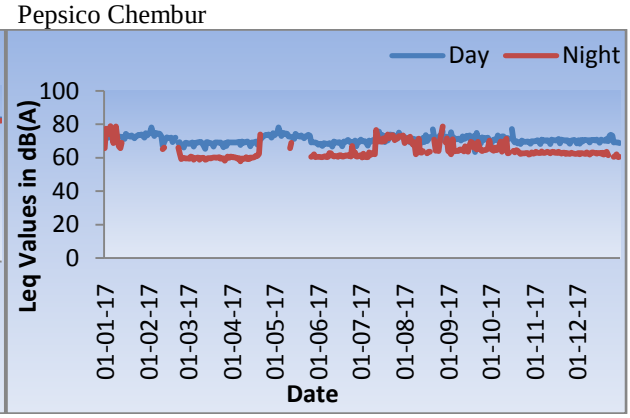


Figure 144: Day time and Night time variation of Vashi Hospital

Based on above facts and statistical values, following observations are made:

- Out of 10 stations, 02 stations (at Acworth and Vashi hospital) are installed at silence zone, 03 stations (at Bisleri Andheri, LT Powai and MM Kandivali) are installed at Industrial zone, 04 stations are installed at commercial zone (at Ambassador Hotel, Bandra, MPCB HQ and Thane [TMCO]) and remaining 01 station (Pepsico Chembur) is installed at Residential Zone.
- 356 observations were recorded at Acworth hospital Noise monitoring station during day time and 353 observations were made during night time. Sound level ranges between 67 to 79 dB(A) during day time and 67 to 78 dB(A) at night time. During day time 100% of exceedance of prescribed norms was observed whereas 100% of exceedance was observed during night time also. 303 observations fall in the range of 65 to 75 dB(A) at day time whereas 0 observations recorded in range of 55 to 65 dB(A).
- At Ambassador Hotel station, 100% exceedance was observed during day and night time. Out of 362 observations, 357 observations were recorded in the range of 65 to 75 dB(A) and 05 observations were more than 75 dB(A) during day time. During night time, 363 observations were recorded and 347 observations falls in range of 65 to 75 dB(A) and no observations above the 75 dB(A). 90% of the time sound level is 73 dB(A) whereas at night time 69 dB(A).
- Noise Monitoring station installed at Bisleri Andheri have 363 observations during day time and 361 observations during night time. Sound level ranges between 65 to77 dB(A) during day time and 61 to 74 dB(A) during night time. 4% exceedance of prescribed standard was observed during day time whereas 6% exceedance was observed during night time. 90% of the time, 74 dB(A) of sound level observed during day time whereas 69 dB(A) observed

during night time. Sound level ranges between 65 to 75 dB(A) for 348 observations during day time whereas sound level falls between 55 to 65 dB(A) for 02 observations.

- At Bandra station, 94% exceedance was observed during day whereas 100% exceedance was observed during night time. Out of 362 observations, 332 observations were recorded in range of 65 to 75 dB(A) and 08 observations were more than 75 dB(A) during day time. During night time, 362 observations were recorded and 336 observations falls in range of 65 to 75 dB(A) and no observations were above the 75 dB(A). 90% of the time sound level is 73 dB(A) whereas at night time 73 dB(A).
- 350 observations were made at MPCB HQ noise monitoring station at day time and 351 observations were made at night time. During day time, 61% of exceedance of was prescribed standard was observed whereas 100% of exceedance observed during night time. 213 observations were recorded in the range of 65 to 75 dB(A) during day time whereas 136 observations were made in the range of 55-65 dB(A) at night time. No sound level exceeded the 75 dB(A) at day and night time.
- Noise Monitoring station installed at LT Powai have 365 observations during day time and 365 observations during night time also. Sound level ranges between 52 to 67 dB(A) during day time and 48 to 66 dB(A) during night time. There is no exceedance of prescribed standard was observed during day time and also during night time. 90% of the time, 61 dB(A) of sound level observed during day time whereas 58 dB(A) observed during night time. Sound level ranges between 65 to 75 dB(A) for 01 observations during day time whereas sound level falls between 55 to 65 dB(A) for 341 observations.
- At MM Kandivali station, 0% of exceedance was observed during day and night time also. Out of 364 observations, 48 observations were recorded in range of 65 to 75 dB(A) and 01 observations were more than 75 dB(A) during day time. During night time, 364 observations were recorded and 40 observations falls in range of 65 to 75 dB(A) and 05 observations above the 75 dB(A). 90% of the time sound level is 66 dB(A) whereas at night time 66 dB(A).
- 360 observations were made at Pepsico Chembur noise monitoring station at day time and also 365 observations were made at night time. During day time, 99% of exceedance of prescribed standard was observed whereas 100% of exceedance was observed during night time. 129 observations were recorded in the range of 65 to 75 dB(A) during day time whereas 318 observations were made in range the of 55-65 dB(A) at night time. No sound level exceeded the 75 dB(A) at day time and night time.
- At Thane (TMCO), sound level ranges from 52 to 67 dB(A) during day time and 52 to 65 dB(A) during night time. 07% of exceedance of prescribed standard was observed during day time whereas 50% exceedance was observed during night time. 90% of the time, sound level of 65 dB(A) was observed during day time and subsequently 64 dB(A) at night time. 365 observations were made at day time and 365 observations were made at night time during the year 2017. During day time, 173 times - sound level ranges between 55 to 65 dB(A) and 25 times, sound level fall in range of 65 to 75 dB(A) there is no sound level exceeded the 75 dB(A). During night time, 183 observations fall in the range of 45 to 55 dB(A), 182 observations were made in the range of 55 to 65 dB(A).
- Noise Monitoring station installed at Vashi Hospital (Vhsp) have 361 observations during day time and 284 observations during night time. Sound level ranges between 63 to 78 dB(A) during day time and 58 to 79 dB(A) during night time. 100% exceedance of prescribed standard was observed during day time and also at night time. 90% of the time, 74 dB(A) of sound level observed during day time whereas 71 dB(A) observed during night time. Sound

level ranges between 65 to 75 dB(A) for 348 observations during day time whereas 01 sound level falls between 55 to 65 dB(A).

12.2 ANALYSIS OF AMBIENT NOISE MONITORING ON MONTHLY BASIS

Sound level data of 10 stations of Mumbai is analysed on monthly basis. The data is averaged on monthly basis both for day and night time for the year 2017 and mentioned in **Table 55 and 56**. Graph showing monthly trend for 10 stations is shown in **Figure 145 to 154**.

Table 55: Monthly Avg. Sound level of first 05 stations of Mumbai

Stations	Thane		Vashi Hospital		Acworth Hospital		Bandra		MPCB HQ	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
January	78	79	68	69	65	61	54	53	85	92
February	75	75	68	67	65	61	54	53	85	93
March	75	75	67	67	65	60	54	53	68	58
April	72	72	70	71	69	67	63	55	79	86
May	73	74	68	68	71	69	62	55	85	93
June	73	73	72	71	62	55	60	55	68	61
July	71	71	72	72	66	59	54	53	73	72
August	72	72	71	71	65	59	59	53	77	76
September	73	74	73	71	65	59	63	61	75	67
October	72	73	71	71	64	58	65	63	75	71
November	75	73	71	71	64	59	65	64	70	61
December	73	74	70	70	65	60	64	64	74	77

Table 56: Monthly Avg. Sound level of remaining 05 stations of Mumbai

Stations	Kandivali		Powai		Chembur		Andheri		CST	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
January	68	63	58	53	65	55	70	66	72	68
February	60	61	57	53	64	55	71	68	72	67
March	62	52	59	53	64	55	71	67	70	66
April	60	53	60	55	65	56	72	67	71	66
May	67	67	60	55	62	55	70	67	70	66
June	62	55	61	57	64	65	73	69	72	69
July	62	56	60	60	66	64	74	71	73	69
August	62	55	60	57	66	66	73	68	72	68
September	61	54	58	55	64	65	70	67	72	67
October	60	52	56	51	61	55	69	65	72	67
November	60	53	56	51	62	55	70	66	72	67
December	60	53	57	52	63	57	70	67	72	67

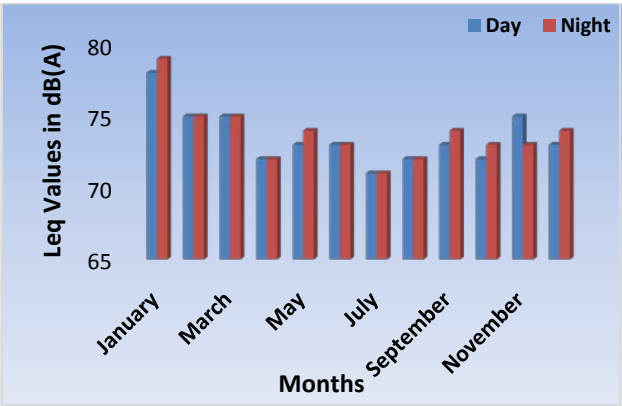


Figure 145: Monthly trend of Thane station

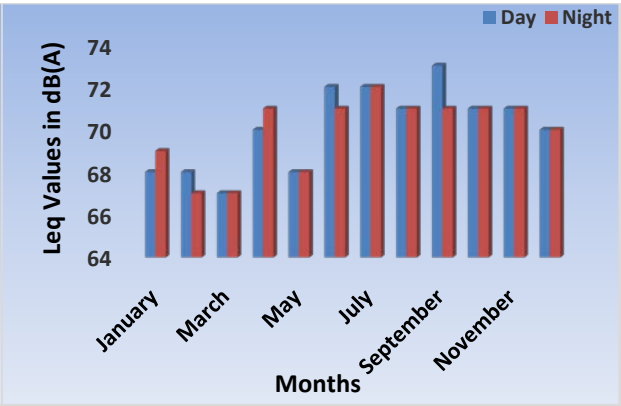


Figure146: Monthly trend of Vashi Hospital station

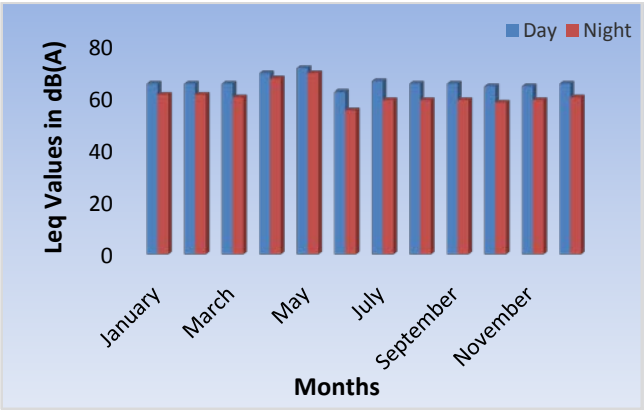


Figure 147: Monthly trend of Ashp station

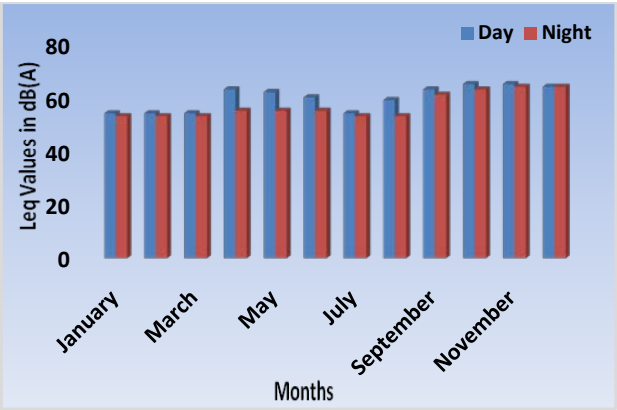


Figure 148: Monthly trend of Bandra station

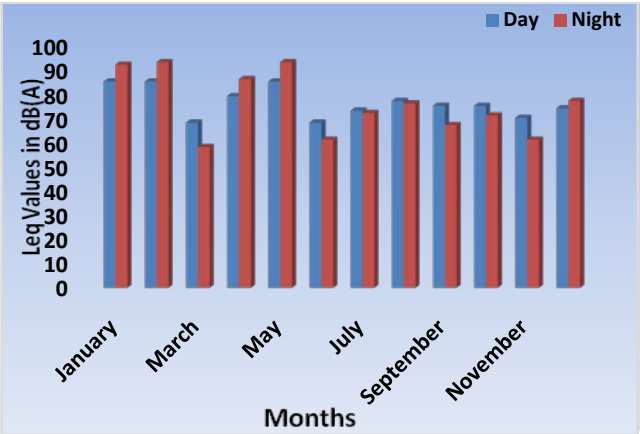


Figure 149: Monthly trend of MPCB, Head Quarter station

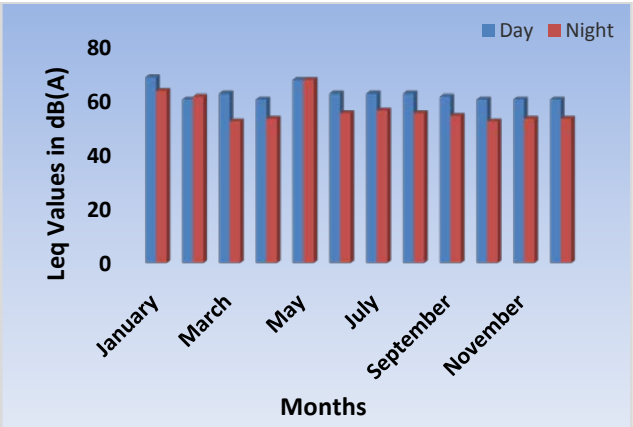


Figure 150: Monthly trend of Kandivalistation

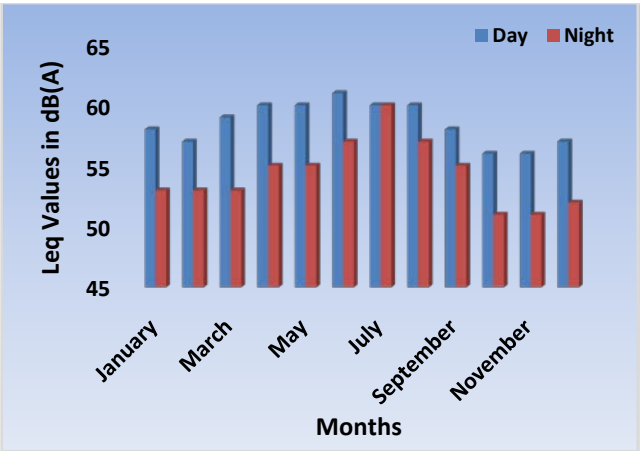


Figure 151: Monthly trend of Powai station

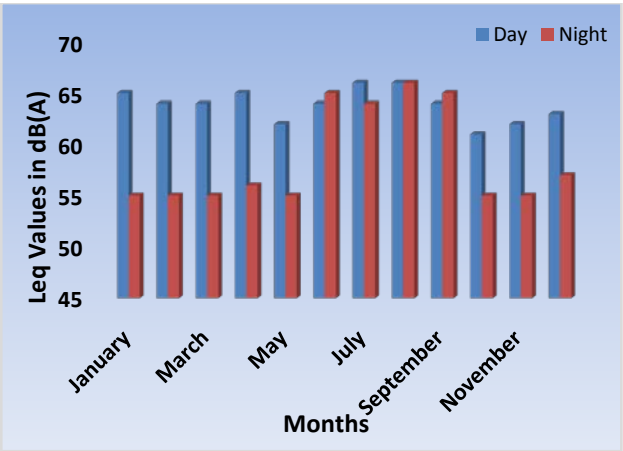


Figure 152: Monthly trend of Chembur station

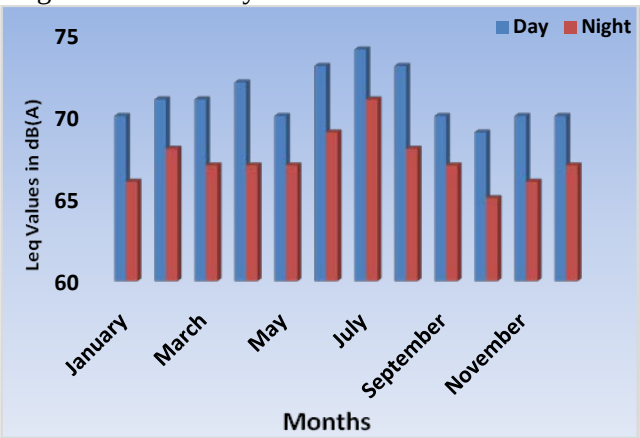


Figure 153: Monthly trend of Andheri station

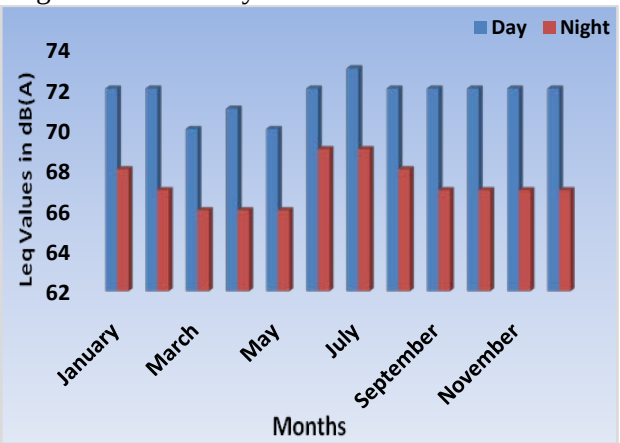


Figure 154: Monthly trend of CST station

Close examination to above data and graph reveals following observations:

- At Thane, sound level varies between 71 to 78 dB(A) for day time whereas 71 to 79 dB (A) for night time.
- Sound level ranges between 67 to 73 dB(A) for day time at Vashi hospital whereas sound level varies from 67 to 72 dB(A) during night time.
- At Acworth Hospital, Sound level varies between 62 to71 dB(A) for day time whereas 55 to 69 dB(A) during night time.
- At Bandra, maximum sound level observed was 65 dB(A) and minimum sound level recorded to 54 dB(A) for day time whereas sound level ranges between 53 to 64 dB(A) for night time.
- At MPCB HQ, sound level was recorded 68 to 85 dB(A) for day time whereas 58 to 93 dB(A) for night time.
- Sound level ranges between 60 to 68 dB(A) for day time at Kandivali whereas sound level varies from 52 to 67 dB(A) during night time.
- At Powai, Sound level roam around 60 dB(A) for day time whereas 55 dB(A) during night time. Range of sound level recorded for day time is 56 to 61 dB(A) and night time is 51 to 60 dB(A).
- At Chembur, sound level was recorded 61 to 66 dB(A) for day time whereas 55 to 66 dB(A) for night time.
- Sound level ranges between 69 to 74 dB(A) for day time at Andheri whereas sound level varies from 65 to 71 dB(A) during night time.

- At CST, sound level was recorded 70 to 73 dB(A) for day time whereas 66 to 69 dB(A) for night time.

12.3 ANALYSIS OF AMBIENT NOISE MONITORING ON YEARLY BASIS

Sound level data of 10 stations of Mumbai is analysed on yearly basis. The data for the year 2017 is averaged on yearly basis both for day and night time and mentioned in Table 57. Graph showing yearly trend for 10 stations is shown in Figure 155.

Table 57: Yearly Avg. Sound level of 10 stations of Mumbai

STATION	Day Leq. dB(A)	Night Leq. dB(A)	24 (hrs.) Leq. dB(A)
Thane(C)	61	58	60
Vashi Hospital(S)	78	83	80
Ashp(S)	74	74	74
Bandra(C)	70	70	70
MPCB, Head Quarter(C)	66	61	65
M&M Kandivali(I)	62	57	61
Ambassador Hotel(C)	72	67	71
L&T Powai(I)	59	55	58
Pepsico Chembur(R)	64	60	63
Andheri(I)	71	68	70

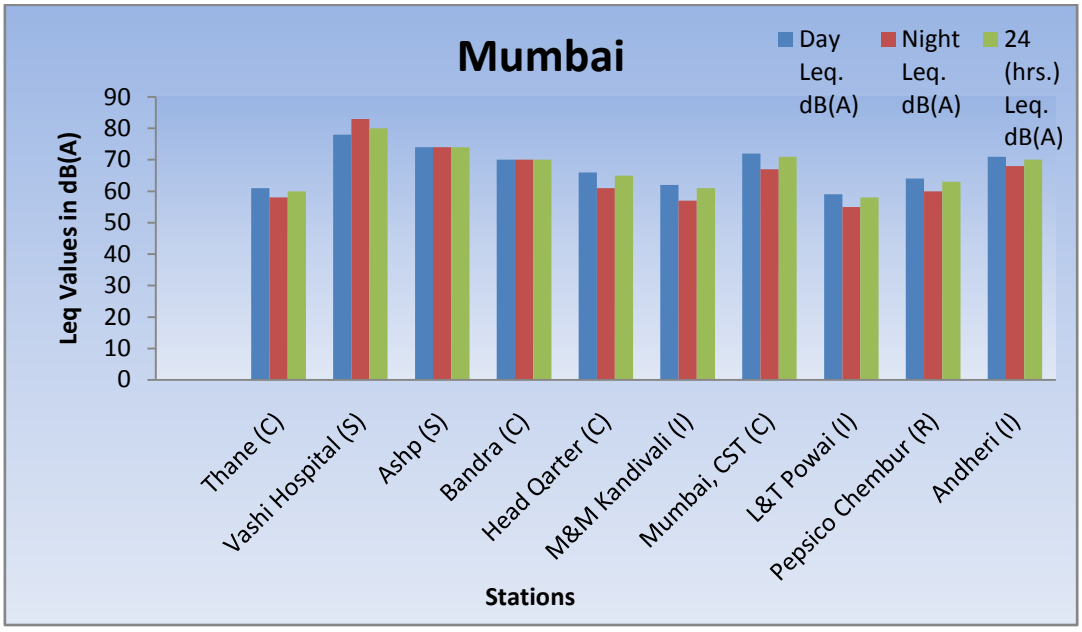


Figure 155: Yearly trend of Lucknow's noise monitoring stations

Close examination of Noise Data reveals that sound level at Mumbai ranges between 59 dB(A) at L & T Powai (I) to 78 dB(A) at Vashi Hospital (S) during day time whereas sound level ranges between 55 dB(A) at L & T Powai (I) to 83 dB(A) at Vashi Hospital (S) during night time.

13. MAJOR FINDINGS

Real Time Continuous Ambient Noise Monitoring was conducted at 70 locations in seven cities (Bangalore, Chennai, Delhi, Hyderabad, Kolkata,Lucknow and Mumbai) for the year 2017. The exhaustive analysis of real time data reveals following observations:

1. Out of 10 stations of Bengaluru city, 02 stations (Peeniya, white field) are installed in industrial zone, 03 stations (Parisar Bhawan, Marathali, Yashwantpur) lies in commercial zone, 03 stations (Nisarga Bhawan, BTM, Dolmur) are installed residential zone and remaining 02 stations (RVCE and Nimhans) are installed in silence zone. Stations installed at White field show 3% exeedance during night time whereas Peeniya depicts 0% exeedance of prescribed limits. Remaining 08 stations are exceeding the prescribed limits for one or the other occasion. The city sound level range between 40 dB(A)(at Marathali station& Nimhans Stations) to 78dB(A) (at Marathali station).
2. In Chennai city, one station at Guindy is installed in industrial zone, 04 stations (T. Nagar, Perambur, Pallikarnai, Washermanpet) are installed in commercial zone, 03 stations (Triplicane, Velachery and Sowcarpet) are installed in residential zone and remaining 02 stations (Eye Hospital and Anna Nagar) lies in silence zone. All stations are exceeding prescribed limits for one or the other occasionand08 stations showing more than 99% exceedance of prescribed limits. The city sound level range between 40 dB(A) (at Eye Hospital, Perambur and Triplicane) to 88 dB(A) (atPallikarnai). The frequency analysis of sound level data reveals that station installed at Guindy and T. Nagar has maximum observation greater than 75 dB(A) whereas remaining stations data ranges between 55 dB(A) to 75 dB(A).
3. In Delhi, 04 stations namelyAnand Vihar, Civil Lines, CPCB and ITO are installed in commercial zone, 01 station at Punjabi Bagh lies in Residential zone and remaining 05 stations (DCE, Mandir Marg, NSITand R K Puram) are installed in Silence Zone. The frequency analysis of sound level data reveals that maximum observations for stations installed in commercial zone ranges between 65-75 dB(A) and stations installed in silence and residential zone, sound level varies between 45 to 65 dB(A). All 10 stations are exceeding the prescribed limits for one or the other occasion and more than 90% exeedance of standards was observed in all stations except CPCBand Civil lines for day time. The overall range of Delhi city for the assessed period varies between 44dB(A) (at Mandir Margstation) to 78 dB(A) (atCivil LinesStation).
4. Hyderabad city has 02 stations (Gaddapotharam, Jeedimetla) in industrial zone, 04 stations (Abids, TSPCB, JNTU and Paradise) in Commercial Zone, 02 stations (Jublee Hills and Tarnaka) in residential zone and remaining 02 stations (Gachibowli and Zoo) lies in silence zone. All 10 stations are exceeding the prescribed limits for one or the other occasion and 100% exeedance of standards was observed in 07 stations remaining 03 Stations (Gaddapotharam, Jeedimetlaand Paradise) showing less than 100% exeedance of standards. The city sound level range between 40dB(A)

(at Gaddapotharam and Paradise station)to 85 dB(A) (at Jeedimetla station).02 stations namely Abids andGaddapotharam show maximum observations greater than 75 dB(A) and remaining stations lies between 55-65 dB(A).

5. In Kolkata city, 02 stations (Gole Park and Tartala) are installed in industrial zone, 03 stations (Kolkata HQ, New Market and Tollygunge) are installed in commercial zone, 03 stations (Patauli, Birati Neelanchaland Bag Bazar) are installed residential zone and remaining 02 stations namely SSKM Hospital and RG Kour are installed in silence zone. Sound level data of Taratala station are always within the prescribed limits for both day and night time. However, remaining 09 stations are exceeding the prescribed limits for one or the other occasion. The city sound level range between42dB(A) (at Pataulistation) to 84 dB(A) (atNew Market). The frequency analysis of sound level data reveals that maximum observationswere observed in the range between 55 dB(A) to 75 dB(A).
6. In Lucknow, 02 stations (Chinhat and Talkatora) are installed in industrial zone, 03 stations (Aligunj, CCS Airport and HazratGanj) lies in commercial zone, 02 stations namely Indira and Vibhuti Khand installed in residential zone and remaining 03 stations (Gomti Nagar, IT College and PGI) are part of silence zone. All 08 stations are exceeding the prescribed limits for one or the other location except Chinhat and Talkatora. Stations installed at Chinhat andTalkatora showing 0% exeedance of prescribed limits whereas remaining stations depicts more than 80% exeedance of standards. The overall sound level range of Lucknow city varies between 40 dB(A) (at Indira Nagar station) to 79 dB(A) (at HazratGanj). Stations installed at Aligunj depicts maximum observations greater than 75dB(A).
7. Out of 10 stations of Mumbai, 03 stations (BisleriAndheri, L&T Powai, MM Kandivali) are installed in Industrial zone, 04 stations (Ambassador hotel, Bandra, MPCB HQ and Thane TMCO), 01 station namely PepsicoChembur lie in residential zone and remaining 02 stations (AHSP and VHSP) installed in Silence zone. The frequency analysis depicts that maximum observation for stations lies between 55 to 75 dB(A). Out of 10 stations, only 02 stations installed at L & T PowaiandMM Kandivali are meeting the prescribed standards and remaining 08 stations are exceeding the prescribed limits for one or the other occasion and more than 90% exeedance of standards was observed for both day and night time. The sound level data of Mumbai city ranges between 48dB(A) (at L&T Powai) to 79dB(A) (at Acworth Hospital and Vashi Hospital).

14.RECOMMENDATIONS:

1. Noise pollution can be controlled when the sense of understanding of the effects of noise on the other end is percepted. Awareness programme shall be organized as most of the noise is generated because of improper and inefficient usage of resources.

2. Mass awareness programs shall be organized in school so that use of fire crackers shall be eliminated.
3. Residential colonies should be constructed with such an architectural design as to reduce the level of noise reverberation.
4. Encroachment of roads leads to traffic congestion and create vehicular noise pollution. It is advisable that concerned authorities remove illegal encroachment.
5. Vegetation buffer zone and road side plantation should be developed in different parts of the city.
6. Publishing the legislation reflecting possible consequences of the legal action by Prevention, Prohibition, Payment and Punishment to the public.
7. Fire crackers shall not be used near silence zone like hospitals, institutional area and schools.
8. Siting of music system in controlled environment so that said particular location meet the desired ambient standards for specific zone.
9. Mitigation measures using sound proofing / acoustic planning for banquets hall and public gathering places shall be used.

Annexure - I

SOUND LEVEL DATA FOR THE YEAR OF 2017

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-01-17	69	68	48	50	59	54	56	52	66	67	55	54	55	54	62	56	63	60	73	67
02-01-17	70	67	51	45	60	54	56	49	67	60	63	54	59	54	60	57	66	60	73	65
03-01-17	69	69	51	48	60	54	56	48	67	59	65	55	59	55	62	53	66	62	73	65
04-01-17	69	70	51	49	60	53	56	50	67	60	65	55	59	54	61	54	67	63	73	65
05-01-17	68	67	52	48	60	53	56	49	67	61	65	55	59	55	62	58	66	63	73	66
06-01-17	67	68	51	47	60	55	55	49	68	61	65	54	59	57	61	57	67	63	73	65
07-01-17	69	69	51	48	60	54	56	49	68	62	66	56	59	56	60	56	65	64	73	65
08-01-17	68	69	49	48	59	53	57	51	65	62	58	55	55	56	60	60	63	59	72	65
09-01-17	69	68	51	48	60	53	55	48	67	60	65	55	60	56	61	57	66	59	73	65
10-01-17	69	68	54	54	60	53	56	48	67	60	65	56	59	57	60	54	66	62	73	65
11-01-17	68	67	52	51	60	54	55	48	67	60	67	57	59	55	61	55	66	62	73	65
12-01-17	68	68	54	55	60	53	56	47	67	61	66	60	60	55	61	57	66	62	73	65
13-01-17	68	68	53	48	60	53	56	49	67	61	67	56	60	56	62	59	66	62	73	66
14-01-17	68	69	53	53	59	55	56	49	65	62	66	56	58	56	64	62	64	60	71	66
15-01-17	68	68	51	53	59	53	56	49	65	61	58	55	57	52	64	56	62	56	71	64
16-01-17	67	67	55	53	61	53	54	48	67	60	66	55	59	53	62	55	66	60	73	65
17-01-17	66	66	52	60	61	54	56	51	67	60	66	56	62	56	64	56	66	62	72	65
18-01-17	67	67	52	48	61	54	55	48	67	60	69	58	62	57	67	60	66	62	73	66
19-01-17	72	68	53	44	61	54	56	50	70	60	69	63	64	56	67	62	66	63	73	68
20-01-17	67	68	52	45	61	55	56	50	67	62	69	64	61	55	66	58	67	62	73	
21-01-17	71	69	51	47	61	54	56	49	68	65	70	60	60	55	65	60	66	61	74	66

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
22-01-17	68	68	53	47	60	53	55	49	65	63	61	61	61	54	67	57	68	59	71	65
23-01-17	67	68	56	50	63	54	55	49	68	59	67	58	62	55	67	55	67	60	73	65
24-01-17	68	68	57	51	63	54	55	49	68	61		57	64	55	69	59	67	62	73	65
25-01-17	66	66	55	50	63	54	56	49	68	61		60	61	55	67	64	67	63	73	66
26-01-17	67	67	42		60	53	57	48	67	61	57	58	57	55	63	62	64	61	72	65
27-01-17	67	68			60	52	56	49	68	60		57	60	54	63	57	66	60	73	65
28-01-17	69	70	44	45	61	52	60	48	67	63	70	58	59	55	65	62	71	73	73	65
29-01-17	62	65	52	56	59	53	56	49	66	62	67	59	57	54	64	60	63	59	71	65
30-01-17	64	64	51	48	61	53	54	48	68	59		62	60	53	64	57	66	60	73	65
31-01-17	63	63	51	48	60	55	55	49	67	60	62	61	59	55	62	58	66	63	73	65
01-02-17	63	64	49	43	60	52	55	48	67	60	69	58	60	54	63	58	65	63	72	65
02-02-17	63	65	53	41	60	54	55	49	67	61	69	60	59	55	65	60	67	67	72	66
03-02-17	67	65	53	52	60	55	55	50	67	61	69	65	60	54	65	58	66	68	72	66
04-02-17	61	62	54	48	60	56	57	50	68	62	70	60	59	54	66	58	65	70	73	65
05-02-17	63	62	53	49	58	54	56	49	65	62	61	56	55	53	61	57	63	61	71	65
06-02-17	67	64	54	52	60	55	55	50	67	60	69	62	59	52	61	56	66	59	73	65
07-02-17	62	62	55	53	60	54	54	49	67	60	68	67	58	53	62	53	66	62	72	65
08-02-17	62	62	55	53	61	54	56	50	67	60	69	63	59	55	64	56	66	62	72	65
09-02-17	62	61	55	54	60	53	55	49	67	60	69	60	59	55	62	57	66	62	72	65
10-02-17	62	61	54	59	59	54	54	49	68	63	67	59	59	57	62	58	66	61	72	65
11-02-17	61	59	55	68	59	53	56	50	67	63	62	56	58	56	61	59	65	62	72	66
12-02-17	62	61	54	64	59	52	56	50	66	63	61	56	57	54	65	60	64	60	71	65
13-02-17	63	62	55	57	61	55	56	48	67	60	59	55	62	56	67	63	67	61	73	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
14-02-17	64	64	59	61	61	54	56	48	67	61	57	55	62	56	68	62	67	62	73	65
15-02-17	63	64	55	46	61	55	55	50	67	61	69	60	62	56	67	60	66	63	73	66
16-02-17	64	64	56	50	62	54	54	49	67	62	67	57	63	55	69	62	67	62	73	66
17-02-17	66	64	57	55	63	54	56	50	67	61	68	58	64	54	70	62	67	63	73	65
18-02-17	64	64	56	48	63	54	56	49	67	63	66	54	62	55	68	54	66	62	73	66
19-02-17	63	64	52	53	60	54	56	51	65	62	61	54	57	54	63	52	63	60	71	65
20-02-17	62	63	53	50	60	53	55	50	66	60	68	55	60	53	62	53	66	60	72	65
21-02-17	64	63	51	47	60	53	57	51	66	60	70	57	60	55	61	53	66	61	72	65
22-02-17	63	63	52	50	60	54	54	51	67	60	70	55	60	56	62	53	66	62	72	65
23-02-17	62	61	56	52	61	54	55	50	66	60	70	56	61	57	65	54	66	62	72	65
24-02-17	63	62	55	50	61	54	55	54	66	62	70	57	60	57	66	55	66	62	71	65
25-02-17	63	62	54	54	60	54	56	53	67	62	70	62	60	56	65	57	65	61	72	66
26-02-17	63	63	52	52	59	53	56	50	65	62	66	55	58	55	64	58	63	60	71	65
27-02-17	63	62	58	51	62	54	55	49	67	60	62	56	62	56	68	60	66	61	72	65
28-02-17	63	62	55	50	62	54	54	50	66	60	58	57	62	56	67	56	66	62	72	66
01-03-17	62	61	56	52	62	54	55	50	70	60	55	54	65	55	68	56	66	62	72	65
02-03-17	62	62	55	52	60	53	56	51	68	60	63	54	62	55	64	55	66	62	72	65
03-03-17	63	62	54	51	60	55	54	50	67	61	65	55	60	57	63	57	66	62	72	65
04-03-17	63	63	54	53	60	55	56	52	68	62	65	55	57	54	62	59	66	62	73	66
05-03-17	65	63	51	55	58	55	56	53	67	62	65	55	56	53	59	55	63	59	71	65
06-03-17	66	65	53	53	60	55	55	51	68	60	65	54	59	52	62	54	66	61	73	65
07-03-17	64	65	60	60	61	57	55	51	68	61	66	56	60	55	62	55	66	62	72	66
08-03-17	65	59	49		60	56	56	49	68	62	58	55	58	53	61	53	67	62	73	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
09-03-17	64	66	49	49	60	54	56	51	68	60	65	55	59	55	62	53	66	61	72	65
10-03-17	65	65	49	50	60	55	56	51	68	61	65	56	59	54	61	57	67	62	72	66
11-03-17	61	61	51	49	59	55	56	50	67	62	67	57	60	54	61	54	65	61	72	65
12-03-17	60	60	49	49	58	54	55	51	67	67	66	60	55	54	58	52	63	60	71	65
13-03-17	62	62	49	51	60	56	55	51	68	60	67	56	57	53	61	54	66	61	72	65
14-03-17	65	65	49	54	61	56	55	49	68	59	66	56	60	55	64	57	67	62	72	65
15-03-17	65	67	51	52	61	56	54	50	66	59	58	55	63	59	66	61	67	62	73	65
16-03-17	66	66	51	50	61	55	55	50	67	59	61	56	59	57	61	56	66	62	73	65
17-03-17	66	66	50	50	60	55	55	50	67	60	59	55	57	54	60	53	67	62	72	65
18-03-17	65	65	50	48	60	55	55	51	67	64	57	55	62	56	60	56	65	61	72	65
19-03-17	66	65	48	50	58	56	56	53	66	63	59	55	62	56	59	58	63	59	71	65
20-03-17	66	65	49	47	61	56	54	51	68	60	67	57	62	56	61	54	66	60	72	65
21-03-17	66	65	50	49	60	56	54	50	69	59	68	58	63	55	63	54	66	62	72	65
22-03-17	66	65	51	53	60	57	55	50	67	61	66	54	64	54	63	57	67	63	72	65
23-03-17	65	65	52	49	60	56	54	50	67	60	61	54	62	55	63	59	66	64	73	65
24-03-17	64	64	53	47	60	57	55	50	68	61	68	55	57	54	65	56	66	62	72	65
25-03-17	65	64	53	48	60	55	54	51	67	63	70	57	60	53	65	54	65	62	72	65
26-03-17	64	63	51	47	61	56	55	51	66	62	70	55	60	55	66	54	64	59	71	64
27-03-17	64	63	51	50	60	57	54	53	67	63	70	56	60	56	66	53	66	61	72	65
28-03-17	65	64	51	48	60	57	55	50	67	60	57	55	61	57	65	53	66	62	72	65
29-03-17	63	64	50	47	58	57	54	50	65	60	59	55	60	57	64	54	64	61	69	64
30-03-17	66	64	52	48	60	57	54	50	66	59	67	57	60	56	64	54	66	61	71	64
31-03-17	64	65	53	48	61	57	55	51	67	61	62	56	58	55	66	53	66	61	72	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-04-17	64	63	49	47	60	57	61	49	67	63	61	57	61	58	62	54	65	61	72	65
02-04-17	66	65	45	45	58	57	61	49	67	62	61	57	61	54	60	56	63	59	71	65
03-04-17	67	66	50	47	60	57	60	49	67	60	63	58	60	56	61	57	66	61	72	66
04-04-17	66	65	48	46	60	58	54	48	67	60	63	57	60	55	61	53	65	61		
05-04-17	65	64	46	42	60	57	55	49	67	61	63	56	61	55	62	57	66	62	72	65
06-04-17	66	65	46		60	56	60	48	67	60	57	56	62	54	61	55	66	62	72	65
07-04-17	65	66	46	42	61	56	55	49	67	61	59	55	59	55	62	59	66	62	72	65
08-04-17	66	66	47	45	59	57	55	49	67	62	59	56	59	54	62	55	65	61	72	65
09-04-17	64	64	48	47	59	56	54	49	66	63	59	56	60	55	62	54	63	59	71	65
10-04-17	65	63	47	47	60	55	53	49	67	60	60	56	61	55	61	53	66	61	72	64
11-04-17	65	65	48	45	61	57	54	48	67	59	61	55	60	55	63	54	66	62	73	65
12-04-17	64	64	49	46	63	55	54	48	67	60	60	55	61	55	64	53	67	61	72	65
13-04-17	64	64	49	45	62	56	57	47	67	61	59	55	60	56	63	54	66	61	72	65
14-04-17	65	65	48	46	59	55	54	48	66	61	60	56	61	56	61	54	66	61	74	65
15-04-17	64	64	47	44	59	57	55	48	67	63	61	56	57	54	61	55	65	61	72	65
16-04-17	63	63	46	44	60	58	57	51	66	62	60	58	60	54	62	61	63	61	71	65
17-04-17	64	63	45	44	61	58	54	49	67	61	61	57	60	55	64	57	67	61	72	65
18-04-17	66	65	48	46	60	56	56	50	67	60	61	57	60	55	60	54	66	61	72	65
19-04-17	65	64	47	45	60	57	54	49	67	60	61	57	60	55	61	58	66	63	72	65
20-04-17	67	65	45	43	61	57	55	48	67	60	59	56	60	55	64	57	66	62	72	66
21-04-17	65	65	45	45	60	56	54	48	67	61	61	56	57	53	62	57	67	63	72	65
22-04-17	66	66	47	48	60	57	54	48	67	63	61	57	56	53	60	60	65	62	72	66
23-04-17	64	65	47	45	57	57	55	50	66	62	62	56	59	53	60	58	63	61	70	66

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
24-04-17	65	65	47	45	60	57	55	51	66	60	61	57	60	54	62	58	66	62	73	65
25-04-17	64	65	48	47	60	58	57	49	67	61	61	56	60	54	62	57	66	64	72	65
26-04-17	64	64	48	45	60	56	54	48	67	60	61	56	61	55	61	53	66	62	71	65
27-04-17	64	64	49	45	60	56	54	51	68	61	56	53	61	55	62	54	66	63	72	65
28-04-17	65	64	48	46	60	56	56	49	68	61	61	51	60	55	62	56	66	62	72	66
29-04-17	66	64	47	45	60	55	54	51	67	62	60	55	57	54	63	56	66	62	72	66
30-04-17	66	66	48	46	57	54	54	49	66	62	62	55	60	53	59	54	64	59	71	65
01-05-17	64	65	48	45	60	55	56	49	65	61	60	55	60	54	62	60	64	60	70	65
02-05-17	67	65	47	44	60	55	57	51	66	60	60	55	60	54	61	55	66	61	72	65
03-05-17	65	65	47	48	60	53	57	51	66	60	59	55	57	54	61	53	66	61	72	65
04-05-17	66	65	53	48	60	53	56	51	67	60	54	54	58	54	60	53	66	62	72	66
05-05-17	65	65	54	53	60	53	56	51	68	60	59	54	57	54	61	53	66	63	72	65
06-05-17	65	66	49	49	60	55	54	52	67	63	59	54	56	53	61	57	66	61	72	66
07-05-17	66	64	49	49	59	55	62	52	66	62	60	54	60	54	61	58	64	60	72	66
08-05-17	63	65	48		60	56	63	55	67	60	59	54	60	54	60	59	67	62	72	65
09-05-17	63	64	47	48	60	54	64	54	67	60	55	54	61	54	63	54	67	62	72	65
10-05-17	64	63	46		60	54	58	50	67	60	56	53	60	55	61	55	67	62	72	65
11-05-17	65	65	50	48	60	54	58	51	67	60	54	53	61	55	62	55	67	63	72	65
12-05-17	67	66	46	43	60	55	54	51	67	60	59	54	60	56	62	56	67	62	72	67
13-05-17	66	66	45	44	59	55	55	51	66	62	59	54	58	55	60	55	65	62	72	65
14-05-17	68	66	48	54	60	58	57	51	65	61	58	53	61	54	63	58	65	60	71	65
15-05-17	62	60	47	51	61	56	60	54	67	59	59	54	58	54	64	56	67	61	72	65
16-05-17	61	60	46	44	60	56	57	51	67	60	59	54	60	55	61	54	67	62	72	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
17-05-17	64	66	46		61	57	55	52	68	61	58	54	60	55	64	59	67	64	72	66
18-05-17	63	68	52	48	62	58	56	51	67	61	55	54	62	56	63	60	67	64	72	67
19-05-17	68	68	53	44	61	57	60	51	68	62	60	54	56	54	63	59	67	64	72	67
20-05-17	67	66	52	44	60	57	54	49	67	63	57	54	59	57	61	60	66	64	72	67
21-05-17	67	69	51	47	59	55	55	50	67	63	59	55	57	54	59	57	64	60	71	66
22-05-17	66	67	53	47	60	57	54	50	67	61	60	54	59	55	62	58	67	63	72	66
23-05-17	65	68	56	50	60	56	55	49	67	60	61	54	60	56	61	56	67	65	72	66
24-05-17	66	68	57	51	61	58	55	49	68	61	58	55	60	56	63	58	67	63	72	66
25-05-17	68	68	55	50	60	60	57	50	67	61	61	54	60	56	63	60	67	64	72	66
26-05-17	67	70	42		63	62	56	50	68	62	58	54	60	60	66	66	67	66	72	67
27-05-17	67	68			62	59	55	49	68	65	60	55	60	57	63	59	67	63	73	67
28-05-17	69	68	44	46	61	60	57	50	66	62	60	56	58	55	64	61	65	63	72	65
29-05-17	68	69	52	56	62	61	54	50	68	60	59	56	60	54	66	63	67	63	73	67
30-05-17	66	66	52	46	63	59	54	50	68	60	59	56	60	55	67	63	67	66	73	67
31-05-17	67	66	48	49	63	59	55	50	68	61	58	55	59	55	65	60	68	64	73	66
01-06-17	67	65	55	58	61	57	55	50	68	62	55	54	58	55	63	58	67	64	72	66
02-06-17	67	67	57	59	63	59	54	49	68	62	63	54	59	55	65	60	68	64	72	66
03-06-17	67	67	60	58	63	61	56	49	68	63	65	55	61	56	67	66	67	65	73	67
04-06-17	67	66	56	54	60	60	54	50	66	63	65	55	57	54	62	61	64	62	71	66
05-06-17	67	66	53		62	59	54	50	68	60	65	55	60	53	65	60	67	63	72	66
06-06-17	67	66	46		62	58	56	49	69	60	65	54	59	54	65	61	68	64	72	66
07-06-17	64	65	46	42	62	56	59	49	70	61	66	56	61	54	67	59	68	64	73	66
08-06-17	65	64	52	46	62	56	55	50	68	61	58	55	60	54	66	61	68	64	73	66

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
09-06-17	67	65	56	54	63	59	55	49	69	60	65	55	60	56	66	64	69	65	73	67
10-06-17	66	65	54	59	64	61	56	51	68	63	65	56	62	56	67	64	67	64	73	68
11-06-17	67	67	55	68	65	62	56	51	66	61	67	57	63	59	68	66	68	65	72	67
12-06-17	68	67	54	64	63	61	62	50	68	60	66	60	59	56	66	65	68	66	72	68
13-06-17	68	67	55	57	62	60	62	49	68	60	67	56	60	55	64	62	68	64	72	65
14-06-17	67	69	59	61	63	58	55	51	68	60	73	58	60	56	65	60	68	64	72	65
15-06-17	68	69	55	46	63	59	57	51	68	60	71	58	60	54	66	60	68	64	72	66
16-06-17	69	67	57	49	62	58	56	50	68	60	67	57	59	54	64	58	69	65	73	66
17-06-17	69	69	57	54	62	57	57	51	68	62	72	58	58	53	64	57	67	64	73	65
18-06-17	68	68	56	48	61	57	57	51	66	63	63	61	56	53	62	57	65	61	71	65
19-06-17	67	67	52	53	62	58	55	50	67	60	70	58	59	54	63	55	68	63	73	66
20-06-17	66	65	53	50	63	57	56	50	67	59	69	61	58	55	64	56	68	64	72	65
21-06-17	67	66	49	41	63	57	55	50	67	59	69	60	60	54	66	59	68	64	72	66
22-06-17	67	66	48	50	63	58	55	50	66	59	69	61	59	54	65	60	68	64	73	66
23-06-17	67	66	45	46	63	59	56	51	67	61	71	57	60	56	66	63	68	65	72	67
24-06-17	67	67	46	49	65	61	56	50	66	61	70	57	62	56	68	65	68	65	72	67
25-06-17	65	64	55	53	65	61	56	51	65	61	62	56	62	55	69	65	67	65	72	67
26-06-17	67	66	50	55	64	62	56	50	65	59	71	54	63	56	68	65	68	65	72	67
27-06-17	67	68	53	54	65	61	55	50	66	58		59	62	55	69	63	69	65	73	67
28-06-17	69	69	51		67	61	56	50	67	63	71	60	65	57	70	65	69	66	74	67
29-06-17	67	68	47	45	65	59	56	50	67	63	70	58	62	55	68	63	69	65	73	66
30-06-17	67	67	48	46	64	59	56	50	67	61	72	58	62	55	67	63	69	65	73	67
01-07-17	66	66	59	56	65	59	56	50	66	61	68	57	62	56	68	64	68	65	73	67

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
02-07-17	65	65	46	56	63	58	55	50	65	59	61	57	60	54	66	62	66	63	71	66
03-07-17	64	66	54	51	64	59	56	49	66	58	66	56	62	53	66	61	68	63	72	65
04-07-17	67	68	54	53	63	57	55	50	66	58	65	54	60	55	65	57	69	63	72	65
05-07-17	67	67	51	55	64	57	58	50	66	59	66	54	61	55	66	58	68	64	73	65
06-07-17	66	66	53	53	63	58	56	50	66	59	67	54	60	55	65	57	68	64	73	66
07-07-17	70	67	61	53	62	58	55	50	66	58	66	56	59	55	63	58	68	64	73	66
08-07-17	68	67	48		62	61	56	51	67	59	58	55	59	56	64	56	67	63	72	65
09-07-17	69	67	47	48	61	65	56	50	64	60	66	58	57	54	63	57	65	62	71	66
10-07-17	67	67	50	48	64	59	55	50	66	58	67	58	60	54	65	60	67	63	73	66
11-07-17	69	68	42	46	64	59	57	49	66	59	66	56	60	54	66	62	69	64	73	66
12-07-17	70	69	45	45	63	59	57	50	66	60	69	56	60	54	65	59	68	64	73	66
13-07-17	69	70	45	45	64	60	56	49	67	58	67	55	60	55	67	60	68	65	73	66
14-07-17	69	70	46	40	64	67	57	51	67	59	69	55	61	55	68	64	69	65	75	68
15-07-17	71	70	54	52	64	65	58	51	66	61	68	55	61	55	67	63	68	64	74	66
16-07-17	70	69	53	52	63	68	58	52	65	60	62	55	60	56	68	64	67	64	72	68
17-07-17	69	68	52	52	66	66	56	51	66	58	70	56	64	56	71	64	70	65	74	68
18-07-17	69	69	53	51	66	60	56	51	67	59	68	56	62	56	69	64	69	65	73	67
19-07-17	68	69	53	52	66	65	57	50	67	59	71	56	63	55	69	63	70	65	73	67
20-07-17	68	68	56	53	66	67	57	50	67	60	72	59	64	55	71	66	70	66	74	65
21-07-17	69	69	58	55	65	60	58	52	69	62	69	59	62	56	68	63	70	65	74	66
22-07-17	67	68	55	53	63	59	57	51	68	61	71	61	61	55	66	60	68	64	73	66
23-07-17	69	69	54	52	63	63	57	51	64	60	60	59	60	55	66	62	66	63	71	67
24-07-17	69	69	52	54	65	63	56	52	66	58	70	58	62	54	67	64	68	65	73	67

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-07-17	69	69	56	55	63	63	57	51	67	58	70	63	60	55	66	61	68	63	72	65
26-07-17	69	68	56	56	64	67	56	51	67	60	70	59	61	54	67	61	69	66	73	66
27-07-17	69	73	55	54	64	60	56	51	67	59		61	62	55	67	60	69	67	73	66
28-07-17	70	72	56	55	62	64	56	50	68	59	68	58	60	55	67	60	69	67	73	66
29-07-17	65	66	56	56	62	62	56	49	66	60	66	58	60	55	63	56	67	63	73	66
30-07-17	64	64	57	55	60	61	56	50		64	61	58	58	54	61	60	65	61	72	66
31-07-17	65	65	56	55	62	66	58	51	70	64	67	59	60	54	62	57	67	63	72	65
01-08-17	65	67	57	55	62	65	56	51	68	60	68	59	59	56	63	59	68	65	73	66
02-08-17	68	68	59	57	62	63	57	50	66	60	68	58	60	55	64	57	68	67	73	66
03-08-17	66	66	59	56	63	65	56	51	68	60	67	56	61	55	66	63	68	65	73	67
04-08-17	64	65	57	55	66	70	57	52	66	58	67	56	61	54	66	62	68	65	72	66
05-08-17	66	65	59	56	65	66	57	52	67	62	66	55	59	54	64	59	67	65	73	66
06-08-17	66	64	59	59	62	68	56	50	66	60	58	56	58	54	63	59	66	62	72	66
07-08-17	64	64	57	60	63	66	55	50	69	58	65	55	59	54	63	58	67	62	73	66
08-08-17	65	64	59	58	63	65	56	51	66	58	65	55	59	54	64	57	68	64	73	66
09-08-17	66	66	58	58	62	70	59	51	67	63	67	58	59	55	62	60	70	64	73	67
10-08-17	64	65	57	58	62	67	56	50	67	58	67	60	60	54	62	54	69	66	73	66
11-08-17	65	65	58	55	62	70	56	51	66	61	64	56	60	54	62	54	69	67	73	66
12-08-17	65	65	57	57	62	59	56	49	68	59	66	61	59	54	62	56	69	69	73	66
13-08-17	65	65	55	55	60	64	57	49	64	59	66	56	56	54	60	55	65	65	71	65
14-08-17	63	64	53	54	63	63	57	50	66	57	69	52	60	53	62	52		62	72	65
15-08-17	67	67	53	53	62		56	51	65	62	57	59	58	56	60	59	67	64	71	65
16-08-17	68	68	57	55	64	62	56	50	66	60	66	57	60	54	63	57	68	63	73	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
17-08-17	67	66	57	55	63		60	50	66	58	66	57	60	55	63	58	67	63	73	66
18-08-17	65	67	58	55	64	62	57	50	66	59	68	57	62	55	65	57	68	65	73	66
19-08-17	66	66	56	54		63	56	50	66	58	70	57	61	55	66	61	69	65	73	66
20-08-17	65	65	56	54	62	64	56	49	66	60	61	58	58	55	64	58	68	66	64	61
21-08-17	68	66	53	54	66	62	55	49	67	57	70	58	61	54	65	59	68	64	73	58
22-08-17	66	66	56	55	65	60	55	49	67	61	70	58	61	55	64	59	68	64	69	62
23-08-17	65	65	56	55	62	58	55	52	68	59	69	62	60	55	63	56	68	65	73	62
24-08-17	64	65	56	55	60	56	55	51	66	59	68	62	59	56	63	55	68	65	70	64
25-08-17	68	69	56	56	60	54	57	51	67	61	61	61	57	54	63	56	67	66	71	65
26-08-17	68	69	57	55	63	57	56	52	65	57	70	61	60	54	66	61	68	63	72	66
27-08-17	69	69	55	55	61	57	56	54	62	58	64	61	59	56	63	61	65	64	72	66
28-08-17	69	70	56	56	65	61	56	52	66	57	67	59	62	55	67	61	70	64	73	66
29-08-17	68	69	58	56	66	62	55	53	65	58	69	60	62	55	68	64	69	65	73	66
30-08-17	67	68	58	57	63	58	61	52	67	63	69	60	60	54	63	60	70	69	73	66
31-08-17	69	68	58	57	62	56	54	51	65	59	69	59	59	55	63	55	70	68	73	66
01-09-17	70	69	59	58	62	57	56	52	66	60	68	62	60	56	62	57	68	65	73	66
02-09-17	69	69	56	55	61	57	57	52	65	60	68	63	58	57	61	55	66	64	72	66
03-09-17	70	70	57	56	60	55	57	52	63	57	63	60	56	56	60	54	64	60	71	65
04-09-17	68	69	54	55	62	57	55	53	66	61	67	63	59	57	62	57	68	63	73	66
05-09-17	70	69	54	55	63	56	55	49	67	58	68	61	61	55	63	56	68	65	72	65
06-09-17	70	70	56	56	63	58	55	52	66	61	67	62	61	58	62	59	68	66	73	66
07-09-17	69	69	56	55	60	55	54	49	67	59	68	59	61	54	62	53	68	66	72	65
08-09-17	66	68	55	55	60	56	56	48	67	63	67	62	61	55	62	55	69	66	73	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
09-09-17	69	71	53	56	58	56	55	49	68	59	69	62	59	55	62	54	66	64	72	65
10-09-17	71	72	55	55	55	58	55	54	64	62	62	65	56	59	60	56	64	62	71	66
11-09-17	71	73	54	56	43	56	54	49	68	58	68	61	60	54	64	56	67	61	72	64
12-09-17	69	70	55	56	51	55	54	50	66	58	67	60	59	54	64	58	68	64	72	64
13-09-17	72	70	56	55	51	56	54	50	67	58	67	60	59	54	64	58	68	66	72	65
14-09-17	71	71	56	55	50	54	54	49	65	59	68	60	60	54	65	56	68	64	72	65
15-09-17	71	72	56	56	54	58	55	49	66	57	70	58	60	54	63	57	67	66	72	65
16-09-17	69	70	57	56	46	57	55	48	66	64	67	58	61	55	67	61	68	64	73	65
17-09-17	70	69	56	56	63	59	54	49	65	61	62	58	58	55	63	61	65	62	71	65
18-09-17	68	69	55	55	57	61	55	50	66	57	66	57	63	56	69	64	69	65	74	67
19-09-17	67	66	58	56	59	60	54	50	64	58	69	57	63	56	69	63	69	66	73	66
20-09-17	67	67	58	58	64	60	59	49	65	58	71	58	63	55	69	62	69	66	74	66
21-09-17	68	68	58	57	63	58	54	48	65	58	68	60	61	55	65	59	69	65	72	66
22-09-17	69	70	58	58	53	55	56	48	66	59	66	64	60	55	63	55	69	67	72	66
23-09-17	69	68	57	57	42	53	54	49	65	59	66	57	59	55	60	52	69	64	72	66
24-09-17	71	71	59	58	55	54	56	49	64	59	61	57	58	55	59	52	65	62	71	65
25-09-17	72	71	57	58	63	56	56	53	65	60	65	63	62	56	62	58	68	66	73	66
26-09-17	67	68	57	58	53	53	55	49	65	61	67	59	60	56	63	53	69	65	73	65
27-09-17	68	67	57	59	55	59	54	53	66	61	69	64	61	59	62	57	68	70	74	67
28-09-17	67	66	58	59	56	49	57	48	67	59	67	58	60	55	62	53	69	64	73	67
29-09-17	66	67	57	58	50	53	55	48	64	58	59	58	57	55	61	58	70	62	71	67
30-09-17	67	66	58	59	53	55	54	50	64	59	56	58	55	55	58	54	68	61	71	64
01-10-17	67	66	58	58	41	52	54	49	65	60	55	57	55	55	61	53	65	59	70	64

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
02-10-17	67	67	55	58		51	54	49	64	58	55	59	55	55	59	52	66	61	70	64
03-10-17	67	68	58	58		50	54	48	66	58	65	56	59	54	62	54	67	64	72	65
04-10-17	67	68	55	58	49	46	56	49	67	58	66	58	60	55	63	53	68	64	72	66
05-10-17	66	67	58	58	52	53	58	49	67	59	67	59	58	56	62	53	68	64	72	65
06-10-17	66	66	56	57	50	49	57	46	69	61	67	57	60	56	62	51	68	66	72	65
07-10-17	66	64	55	55		50	54	47	66	59	68	57	58	55	61	51	67	63	73	65
08-10-17	67	66	54	55	51	45	54	50	66	61	61	56	56	55	59	53	64	64	71	65
09-10-17	65	65	54	54	44	50	53	47	67	62	67	57	60	54	62	55	68	62	72	65
10-10-17	63	64	57	55	42	47	54	48	66	60	68	60	60	55	61	53	68	65	72	65
11-10-17	65	66	55	55	54	52	54	49	66	60	68	60	59	57	64	55	67	66	73	65
12-10-17	65	66	64	51	52	54	54	50	67	60	68	61	60	57	62	53	68	64	73	66
13-10-17	64	66	68	57	59	56	57	51	67	60	68	63	62	57	62	54	67	65	74	67
14-10-17	63	65	63	48	59	54	55	50	66	62	67	60	59	57	60	53	66	65	73	66
15-10-17	64	64	67	65	53	54	54	49	66	62	62	59	57	56	61	57	65	65	72	65
16-10-17	62	63		66	61	54	54	48	67	58	66	57	59	54	62	55		64	73	65
17-10-17	62	63	70	50	59	55	59	48	68	59	70	57	58	55	61	59	68	65	72	66
18-10-17	63	63	73	59	53	56	60	52	65	59	68	58	56	54	61	54	67	66	71	65
19-10-17	62	62	70	60	66	58	63	55	67	58	67	61	57	55	62	57	66	65	72	65
20-10-17	64	64	78	69	65	63	65	56	64	58	65	63	57	55	60	55	66	61	70	64
21-10-17	61	64	68	67	66	61	58	51	66	60	67	64	56	54	60	52	65	61	71	64
22-10-17	62	63	68		56	57	56	51	63	59	60	65	55	54	60	53	63	59	70	64
23-10-17	62	63			54	56	56	51	67	58	65	62	59	54	61	51	66	61	72	65
24-10-17	62	61			56	54	59	49	66	60	68	64	60	54	61	51	66	64	72	65

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-10-17	62	62			65	59	58	49	65	58	69	67	61	55	64	54	66	62	72	65
26-10-17	64	64	67	58	60	56	59	49	67	58	67	64	62	54	64	60	67	63	72	65
27-10-17	64	64	66	58	61	54	57	50	66	58	66	62	63	55	64	54	67	64	72	65
28-10-17	64	63	44	45	51	53	55	51	67	60	66	62	61	56	66	57	66	62	72	65
29-10-17	63	64	52	56	59	57	54	48	63	60	62	60	59	56	65	54	64	61	71	65
30-10-17	63	64	51	48	61	61	58	50	66	57	69	60	64	57	68	59	67	64	72	65
31-10-17	63	63	51	48	65	60	56	48	66	61	70	62	64	55	66	58		65	72	65
01-11-17	64	64	74	69	62	59	56	50	63	59	57	61	58	54	64	61	68	64	71	65
02-11-17	63	63	75	75	53	56	54	47	65	59	70	64	59	53	63	61	69	63	72	65
03-11-17	64	65	59	64	60	57	55	48	65	58	70	65	60	54	65	60	66	67	72	65
04-11-17	64	64	61	66	58	59	58	49	68	63	68	62	60	56	65	63		71	72	65
05-11-17	65	64	68	68	50	58	56	52	66	62	62	67	57	55	64	64	67	68	71	65
06-11-17	65	66		65	45	57	57	49	70	63	70	64	58	53	66	63	68	69	72	65
07-11-17	64	64	61	59	51	57	56	50	67	65	71	57	60	54	63	65	66	64	72	64
08-11-17	66	64	64	55	43	58	54	51	67	61	70	59	60	54	64	67	70	68	72	65
09-11-17	62	64	60	63	54	58	55	50	66	58	70	65	60	54	64	64	67	69	72	65
10-11-17	63	62	51	52	56	57	55	50	65	60	72	67	60	55	64	59	66	69	72	66
11-11-17	64	62	65	63	60	60	54	50	66	62	70	65	60	55	63	63	66	68	72	65
12-11-17	62	63	52	54	58	54	55	54	64	59	63	61	57	55	61	61	65		71	65
13-11-17	63	63	58	62	62	56	55	50	66	58	69	63	60	54	64	63	69		72	64
14-11-17	63	63	60	61	63	57	56	52	67	58	70	66	59	54	61		66	69	72	65
15-11-17	64	63	61	66	61	57	54	49	66	60		62	60	54	66	59	68	72	72	65
16-11-17	63	62	58	61	57	55	53	49	67	58		65	60	54	61	59	68	68	72	67

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
17-11-17	63	62	66	61	53	55	54	49	66	59		64	60	55	63	69	71	67	72	69
18-11-17	64	65	72	68	45	56	54	49	67	60		64	59	54	63		69	64	71	65
19-11-17	65	65	71	64	42	48	54	50	64	62	67	68	55	54	62		65	65	70	64
20-11-17	62	65		69		54	55	50	68	57	70	67	59	53	63		72		71	63
21-11-17	63	63	75	74	50	40	57	50	67	58	69	63	59	55	67	61	67	69	71	64
22-11-17	63	63	68	66	47	54	56	51	68	60	69	68	60	54	70	63	71	69	72	64
23-11-17	62	63	75	69	69	58	55	49	69	59	71	69	58	54	67	58	69	67	71	64
24-11-17	61	63	68	64	61	57	54	50	69	59	73	68	59	54	66	59	69	65	71	65
25-11-17	62	62	69	65	58	58	56	50	66	59	72	66	59	56	69	57	71	61	72	64
26-11-17	61	62	66	70	57	54	56	50	63	60	68	.	56	54	68	61	71	50	71	64
27-11-17	62	62	71	70	50	61	54	50	67	58	70	68	59	53	69	55		56	72	64
28-11-17	61	62	69	70	56	57	54	49	67	59	71	64	59	54	65	53	70	66	71	64
29-11-17	63	61	69	67	52	59	56	52	65	59	.	60	60	55	69	60	68	61	72	65
30-11-17	62	63	60	62	68	63	56	49	65	59	70	60	60	56		57		60	72	65
01-12-17	65	65			67	61	54	50	65	60	69	60	61	56		64	67	67	73	66
02-12-17	64	64	52	50	66	62	54	51	67	59	69	58	59	60		53	67	62	72	65
03-12-17	63	64	61	53	57	59	54	50	68	67	65	60	57	53	61	57	66		70	64
04-12-17	65	64	60	53	65	56	54	50	67	57	68	59	58	53	60	56	69	65	72	64
05-12-17	63	64	56	49	65	59	54	51	65	61	68	59	58	54	65	51	72	67	72	64
06-12-17	64	64	63	51	52	53	53	50	65	60	69	62	57	54	61	61	68	65	72	64
07-12-17	63	63		57	54	56	56	51	65	61	70	66	57	53	61	53	66	63	72	64
08-12-17	63	63		60	50	57	56	51	65	59	73	68	59	53	62	52	70	64	71	64
09-12-17	64	63	61	57	53	58	55	50	66	61	73	67	58	53	61	53	68	62	71	64

Table 1: Ambient Noise Monitoring Data of Bengaluru for the year 2017

Date	BTM (R)		MART (C)		NIMHANS (S)		NISA (R)		PARI (C)		PNYA (I)		RVCE (S)		TERI DOLMUR (R)		WHITE FIELD (I)		YASHWANTHPUR (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
10-12-17	65	63		60	59	60	54	50	64	64	67	66	55	52	61	51	64	60	70	64
11-12-17	64	63	60	57	58	57	55	50	68	57	74	64	58	52	60	53	66	62	71	64
12-12-17	64	64	64	51	57	57	58	49	67	61	70	68	58	53	61	53	66	64	71	64
13-12-17	62	63			59	57	56	51	68	63	71	67	58	52	62	54	66	64	72	64
14-12-17	61	63			44	52	54	51	65	61	72	66	59	54	64	59	66	64	72	64
15-12-17	63	62			65	57	54	50	67	65	72	64	59	54	65	58	68	63	72	65
16-12-17	63	62	68	59	58	58	55	50	67	61	72	69	60	53	68	60	66	63	72	65
17-12-17	62	63	70	50	57	60	55	50	66	62	66	67	58	53	68	63	65	62	71	64
18-12-17	61	61			63	57	55	51	69	59	71	66	60	53	66	58	68	62	72	64
19-12-17	62	63			56	55	56	53	65	60	70	64	59	53	66	58	67	63	72	64
20-12-17	63	61	69	63	60	58	54	51	66	59	69	63	59	53	66	59	67	63	72	65
21-12-17	64	63	67	61	57	54	54	50	66	60	67	64	60	54	65	56	67	63	72	64
22-12-17	63	63	64	58	53	53	55	50	66	63	63	65	58	54	65	56	67	63	72	65
23-12-17	62	63	61	57	55	55	54	50	66	61	61	66	59	53	65	54	66	63	72	65
24-12-17	63	63	61	56	43	52	55	50	64	60	64	61	56	52	64	55	64	61	71	65
25-12-17	64	64	54	51	50	55	54	51	64	58	69	56	55	52	61	56	65	61	72	64
26-12-17	62	64	58	53	60	55	55	51	65	58	68	56	58	53	64	55	67	62	71	64
27-12-17	62	62	55	49	45	58	54	53	65	59	68	56	56	57	63	57	66	63	71	64
28-12-17	61	62	55	51	47	57	55	50	67	59	67	58	59	54	66	58	67	63	72	65
29-12-17	61	63	45	42	55	56	54	50	67	61	66	57	57	56	64	56	69	62	72	65
30-12-17	61	62	53	49	63	57	54	50	66	64	65	55	57	53	62	55	65	62	72	65
31-12-17	62	62			45	50	55	51	66	63	61	55	55	53	62	56	64	62	70	66

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-01-17	67	57	49	57	76	75	73	71	72	76	65	62	74	70	54	56	69	61	71	66
02-01-17	67	55	45	54	76	73	74	67	73	75	68	58	75	66	50	53	68	62	73	62
03-01-17	67	54	50	50	76	74	73	68	74	75	68	58	76	66	51	50	68	57	72	63
04-01-17	65	57	47	53	77	74	74	69	75	73	65	58	76	67	52	51	68	55	71	63
05-01-17	65	55	44	53	77	74	74	68	72	74	65	58	76	67	49	48	68	58	71	63
06-01-17	67	55	45	55	77	74	74	69	76	74	65	58	76	67	51	50	67	60	71	63
07-01-17	64	57	40	49	77	74	74	69	76	74	65	59	76	68	50	51	65	57	71	63
08-01-17	66	54	66	56	76	73	73	68	74	73	66	59	75	67	53	50	64	57	70	63
09-01-17	65	54	68	60	77	73	74	67	71	74	65	57	76	67	51	50	64	56	71	63
10-01-17	62	55	68	57	77	75	73	69	70	72	66	63	75	67	52	52	63	57	70	65
11-01-17	63	54	67	56	77	74	74	70	74	75	65	58	76	67	51	45	64	57	71	63
12-01-17	63	55	56	51	77	74	74	70	72	79	65	59	76	68	55	52	64	56	71	63
13-01-17	64	57	54	50	77	74	74	69	73	77	65	59	76	68	52	51	63	57	70	64
14-01-17	64	54	48	52	75	72	71	67	71	73	64	58	72	66	52	50	63	56	69	64
15-01-17	66	55	56	56	75	71	72	64	72	76	65	58	72	64	50	50	65	54	70	65
16-01-17	64	53	54	56	76	72	72	66	77	83	64	56	74	65	48	50	64	54	70	63
17-01-17	65	54	42	54	76	73	75	68	74	78	64	58	74	66	50	50	64	55	70	64
18-01-17	70	58	44	61	65	60	74	68	77	74	67	61	75	67	51	46	67	57	73	68
19-01-17	71	62	47	64	77	73	74	69	73	77	68	64	76	68	71	67	69	58	73	69
20-01-17	71	62	51	61	77	74	78	69	73	79	67	60	75	67	67	67	69	61	73	66
21-01-17	70	66	64	46	77	74	74	69	76	79	67	63	76	69	72	69	68	62	72	68
22-01-17	70	57	67	58	77	74	73	68	79	80	67	61	74	67	71	69	68	57	71	68
23-01-17	70	56	68	58	76	74	74	67	74	78	67	59	75	65	68	62	68	55	74	66

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
24-01-17	71	58	68	59	77	74	74	68	73	78	67	61	76	66	69	61	68	58	73	68
25-01-17	69	63	67	58	76	73	74	69	68	68	67	64	76	68	68	64	67	60	72	69
26-01-17	67	63	65	56	76	73	73	69	73	75	65	61	74	68	68	61	66	60	71	69
27-01-17	67	60	68	56	66	49	73	68	76	74	66	60	76	67	43	51	66	63	71	67
28-01-17	67	57	68	58	77	74	74	68	76	76	66	59	76	67	66	64	65	56	71	64
29-01-17	66	56	69	58	76	73	73	67	71	78	65	57	75	66	57	55	65	56	71	63
30-01-17	65	54	68	59	77	73	74	65	73	79	65	59	76	67	56	54	65	56	71	64
31-01-17	64	54	67	58	77	74	73	69	69	79	66	59	76	68	55	55	64	56	71	63
01-02-17	63	53	49	57	77	74	74	70	72	77	66	60	76	68	54	56	64	57	71	66
02-02-17	65	53	56	57	77	74	74	69	70	76	66	58	76	68	50	53	65	57	72	64
03-02-17	65	53	50	50	77	74	74	69	71	75	65	58	76	68	51	50	65	56	71	65
04-02-17	63	53	47	53	77	74	73	68	70	74	65	59	76	68	52	51	65	56	70	64
05-02-17	63	53	44	53	76	73	73	68	68	72	64	63	74	67	49	48	64	56	69	63
06-02-17	62	53	45	55	77	73	74	66	70	72	65	58	76	67	51	50	64	56	71	64
07-02-17	63	55	65	57	77	74	73	70	70	73	64	58	75	67	50	51	64	56	70	63
08-02-17	64	56	66	56	77	74	75	68	63	67	65	60	76	68	53	50	65	56	70	63
09-02-17	63	55	68	60	77	74	74	70	68	71	66	58	76	68	51	50	65	57	71	64
10-02-17	62	55	68	57	77	74	74	68	70	71	64	58	75	67	52	52	64	57	70	62
11-02-17	62	54	67	56	77	74	73	69	69	72	64	58	75	68	51	44	64	56	70	63
12-02-17	66	54	56	51	76	73	73	68	70	72	66	59	74	67	55	52	65	55	70	64
13-02-17	68	57	50	50	77	73	74	68	73	72	68	61	76	69	52	51	67	58	72	66
14-02-17	71	64	47	53	77	74	74	70	74	74	68	62	76	68	52	50	68	60	72	68
15-02-17	69	58	44	53	77	74	74	69	71	71	67	59	76	68	50	50	68	57	72	65

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
16-02-17	67	59	45	55	77	74	74	70	71	71	66	61	76	68	48	50	66	58	72	68
17-02-17	65	54	40	49	77	74	74	68	71	70	65	59	76	68	50	49	65	56	71	65
18-02-17	64	53	66	56	77	74	73	69	71	71	65	58	75	67	50	49	65	56	70	65
19-02-17	61	52	68	60	76	73	73	68	71	71	64	58	75	67	50	49	64	55	69	61
20-02-17	63	54	68	57	77	73	74	68	71	71	66	58	76	67	50	49	65	55	70	62
21-02-17	65	56	67	56	77	74	74	68	71	71	68	61	75	67	50	50	67	57	71	64
22-02-17	64	55	56	51	77	74	74	70	71	68	66	58	76	68	49	49	68	59	70	63
23-02-17	64	55	54	50	77	74	74	70	71	68	66	60	76	68	50	49	70	60	71	65
24-02-17	63	53	48	52	77	73	74	70	70	69	66	58	76	68	51	50	71	63	75	65
25-02-17	64	53	56	56	77	73	74	69	71	71	66	58	75	68	51	50	66	65	70	65
26-02-17	62	53	54	56	74	72	72	68	71	71	62	57	74	66	51	51	65	56	71	64
27-02-17	64	55	42	54	74	70	73	66	71	70	65	57	75	66	50	51	65	57	71	62
28-02-17	65	54	44	61	74	70	73	68	71	72	66	58	76	67	52	51	67	57	71	63
01-03-17	66	55	65	65	75	71	73	69	70	69		63	76	69	52	53	66	56	71	63
02-03-17	65	54	65	65	75	71	72	68	72	69		62	76	67	51	50	66	58	71	63
03-03-17	65	54	65	65	75	71	72	67	72	72		60	76	67	50	51	66	61	71	63
04-03-17	65	55	65	65	75	71	72	66	71	70	71	65	76	68	50	49	67	59	70	63
05-03-17	64	58	65	65	74	71	72	67	70	68	66	65	74	67	50	50	70	60	69	65
06-03-17	68	61	65	65	76	70	73	66	70	67	70	65	76	68	50	50	73	58	72	66
07-03-17	70	62	65	65	76	71	73	65	71	67	70	62	77	68	50	50	72	58	71	65
08-03-17	68	62	65	65	76	72	74	68	66	61	72	63	76	69	51	50	70	59	72	67
09-03-17	69	63	65	65	77	72	74	69	70	68	71	65	76	68	50	50	74	72	72	67
10-03-17	70	65	65	65	77	72	75	69	70	71	71	65	76	69	53	51	73	63	72	68

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
11-03-17	67	65	65	65	76	72	73	69	72	72	69	66	75	70	51	50	69	62	71	67
12-03-17	67	62	65	65	75	71	73	67	72	72		62	74	68	51	51	70	61	70	65
13-03-17	67	61	65	65	76	70	73	67	71	70		60	77	68	51	51	70	60	70	64
14-03-17	67	57	65	65	75	71	73	68	71	73			77	68	51	51	69	60	70	63
15-03-17	65	55	65	65	75	72	73	66	71	71	66	65	76	68	52	52	67	58	70	62
16-03-17	65	57	65	65	75	72	73	68	72	72	66	59	76	68	52	50	67	59	71	62
17-03-17	66	58	65	65	76	72	73	68	72	72	68	60	76	68	51	51	70	60	71	63
18-03-17	69	60	65	65	76	72	75	69	72	70	73	61	76	68	51	50	73	58	72	65
19-03-17	68	59	65	65	75	71	73	67	71	69	73	61	75	68	50	51	72	58	71	63
20-03-17	68	60	65	65	76	69	74	68	71	71	69	60	76	68	52	55	70	59	71	64
21-03-17	67	59	74	61	75	74	73	69	71	68	68	59	77	68	50	50	70	58	70	63
22-03-17	65	55	67	59	76	72	74	68	71	70	66	57	76	68	51	50	67	58	71	62
23-03-17	65	55	67	57	76	72	74	69	72	72	67	59	76	68	52	52	66	57	69	63
24-03-17	65	59	67	57	76	72	73	69	71	71	66	57	75	68	52	50	67	56	70	63
25-03-17	65	55	68	58	76	72	74	69	71	71	66	58	75	68	51	50	68	58	70	62
26-03-17	62	54	65	56	74	71	75	67	72	72	66	59	74	67	51	50	66	58	69	63
27-03-17	66	57	68	59	76	71	74	68	70	72	68	59	76	67	51	51	69	58	71	63
28-03-17	66	58	69	60	76	72	74	69	70	72	67	60	76	68	52	52	69	61	70	64
29-03-17	66	57	69	58	76	72	74	69	71	72	67	59	75	68	51	51	68	58	70	64
30-03-17	65	57	68	59	76	72	73	69	72	72	66	59	75	69	51	50	67	59	71	64
31-03-17	67	59	69	60	76	72	74	69	72	72	68	60	76	68	50	50	70	60	71	65
01-04-17	67	59	70	59	76	72	74	70	71	73	69	60	76	69	51	50	71	59	72	65
02-04-17	68	61	71	60	75	72	74	70	71	73	71	61	74	68	51	51	70	59	73	65

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
03-04-17	67	62	69	63	76	71	74	69	71	72	69	62	76	67	51	49	70	62	72	66
04-04-17	68	58	72	62	77	72	74	70	73	74	69	61	76	68	53	54	73	62	72	65
05-04-17	66	58	71	63	77	72	86	77	77	81	69	63	76	68	51	50	72	63	73	67
06-04-17	66	55	71	62	77	72	74	71	80		70	63	76	69	50	51	73	62	73	67
07-04-17	65	57	70	62	77	73	73	68	81		69	62	76	69	50	50	71	62	72	67
08-04-17	64	55	71	60	76	73	74	71	81	83	69	60	76	69	50	50	72	62	72	66
09-04-17	65	55	69	59	75	72	74	70	75	81	69	60	74	67	50	49	72	63	71	64
10-04-17	67	56	69	59	76	72	74	67	77	80	68	61	76	69	50	50	70	60	71	65
11-04-17	66	59	69	57	76	72	74	70	75	80	69	59	76	67	51	50	69	57	70	63
12-04-17	67	59	68	57	76	72	74	71	77	83	69	58	76	67	51	49	67	56	70	63
13-04-17	65	58	68	57	76	72	74	71	83	82	67	59	76	68	50	49	67	57	71	63
14-04-17	67	56	65	56	74	72	74	71	79	81	66	57	74	67	50	51	66	56	68	62
15-04-17	65	57	67	56	75	71	74	70	83	83	64	57	75	66	52	50	66	56	69	62
16-04-17	65	54	70	61	75	72	74	70	84	78	68	61	74	69	50	50	70	60	70	65
17-04-17	63	55	68	63	76	73	74	69	75	81	67	62	75	69	50	49	69	64	71	67
18-04-17	64	56	72	64	77	73	73	71	77	75	70	65	75	70	50	49	72	65	73	68
19-04-17	64	55	74	65	77	73	76	73	76	77	72	66	76	71	50	49	72	65	75	68
20-04-17	63	55	74	66	78	74	75	71	76	81	73	66	76	70	50	49	72	65	76	69
21-04-17	62	55	71	64	77	74	75	70	80	80	71	65	76	70	52	52	69	65	73	68
22-04-17	62	55	69	64	76	73	74	71	73	79	68	65	75	71	50	50	68	63	71	68
23-04-17	66	54	71	63	75	72	74	70	77	83	69	64	74	70	52	54	69	63	71	68
24-04-17	67	58	71	64	76	72	74	70		79	70	64	76	68	51	51	69	63	72	67
25-04-17	66	57	71	64	76	73	74	70	81	80	69	64	74	68	50	50	70	63	72	66

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
26-04-17	65	57	71	60	76	72	74	69	78	80	70	64	76	68	51	49	69	61	72	64
27-04-17	65	55	72	65	77	73	75	71	81	77	69	64	76	70	50	50	72	65	72	67
28-04-17	65	56	70	60	77	73	74	70	72	75	69	61	76	69	51	50	70	61	71	64
29-04-17	64	58	69	59	76	73	74	70	83	84	68	61	76	69	50	50	70	60	71	66
30-04-17	67	56	70	61	76	72	74	70	78	83	69	61	75	69	51	50	71	61	71	66
01-05-17	67	58	69	61	75	71	74	68	82	76	69	64	74	69	51	50	70	61	70	66
02-05-17	67	59	71	59	77	72	75	69	76	79	68	59	76	67	51	55	71	61	70	63
03-05-17	68	59	71	58	77	73	75	70	75	75	68	59	76	68	53	55	71	57	71	64
04-05-17	67	63	72	57	77	73	75	70	75	76	69	59	76	68	51	52	72	60	71	63
05-05-17	68	66	72	60	77	73	75	70	78	78	71	60	76	68	50	53	74	61	73	64
06-05-17	68	64	73	62	77	73	75	70	74	78	70	62	76	69	52	53	73	60	75	66
07-05-17	70	63	70	62	76	72	75	69	71	75	68	63	76	68	52	54	71	61	69	66
08-05-17	70	62	70	59	76	72	74	69	71	80	67	59	75	68	51	51	68	62	71	64
09-05-17	69	60	72	62	77	73	75	70	68	75	69	62	75	69	50	50	72	60	72	66
10-05-17	68	60	69	57	76	73	75	70	79	70	68	59	76	68	52	51	68	57	70	63
11-05-17	67	59	67	58	76	73	74	70	73	75	66	58	75	68	50	51	65	57	70	64
12-05-17	69	61	69	58	76	73	74	70	72	76	67	59	76	68	50	51	68	58	69	64
13-05-17	67	55	69	58	76	73	74	70	72	77	67	59	76	68	50	51	68	58	72	63
14-05-17	66	54	69	60	75	72	74	69	72	76	67	61	74	68	49	50	68	58	69	65
15-05-17	65	60	67	61	76	72	74	70	76	75	66	62	75	70	50	49	67	60	69	66
16-05-17	65	62	69	62	76	73		76	72	73	67	62	75	70	50	50	67	60	70	65
17-05-17	65	66	67	64	76	73	74	71	61	67	65	66	75	72	52	52	65	62	70	69
18-05-17	66	61	68	60	76	73	83	67	66	68	67	62	80	75	50	50	66	59	70	65

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
19-05-17	66	66	69	65	76	73	74	71	72	76	66	65	75	73	52	50	67	63	70	69
20-05-17	65	63	68	61	76	73	74	70	65	63	67	62	75	71	51	50	66	60	70	66
21-05-17	64	62	68	61	75	72	87	74	75	68	67	61	79	75	51	51	66	60	69	66
22-05-17	66	61	69	60	76	72	74	70	77	75	68	61	75	69	51	50	68	58	71	65
23-05-17	65	61	68	61	76	73	74	71	76	68	66	61	75	69	50	50	66	61	69	65
24-05-17	65	66	68	65	76	73	74	71	72	71	67	64	75	70	51	50	66	63	70	67
25-05-17	63	61	67	62	76	73	74	71	78	79	65	61	78	75	51	50	65	62	70	66
26-05-17	65	57	67	58	76	73	74	73	71	73	66	59	79	76	51	51	65	58	69	63
27-05-17	66	61	68	62	76	73	77	80	72	75	67	62	75	70	55	54	68	62	70	66
28-05-17	63	58	65	58	74	72	74	69	73	72	64	59	74	68	51	51	65	59	69	65
29-05-17	68	66	67	63	75	72		76	73	73	67	64	75	72	51	51	68	64	72	69
30-05-17	69	67	70	66	75	73	76	73	71	71	68	66	76	73	53	52	70	66	71	69
31-05-17	66	64	71	62	76	73	75	71	72	72	69	63	75	70	55	53	67	61	71	67
01-06-17	66	64	71	63	76	74	75	71	72	71	68	63	75	70	53	50	68	62	70	67
02-06-17	68	64	74	63	77	74	75	71	71	72	69	63	76	68	51	50	70	62	71	66
03-06-17	66	60	71	62	76	73			72	74	68	61	76	69	52	51	69	60	70	66
04-06-17	66	62	70	61	75	73	74	71	69	72	67	62	74	70	51	51	68	61	69	66
05-06-17	65	62	68	60	76	73	74	70	67	68	68	61	74	69	52	51	66	59	71	65
06-06-17	68	61	67	63	76	73	74	72	71	73	66	63	75	71	52	51	66	62	70	68
07-06-17	70	62	66	64	76	73	75	72	69	70	66	65	75	72	52	51	66	63	71	69
08-06-17	68	62	66	61	76	73	76	71	70	69	67	62	75	70	57	51	69	62	71	66
09-06-17	69	63	65	65	76	73	75	72	65	66	66	65	75	72	53	53	70	66	72	68
10-06-17	70	65	67	64	76	73	76	72	73	72	67	65	77	74	53	52	72	69	72	70

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
11-06-17	67	65	69	65	75	73		70	73	71	69	65	77	73	52	52	72	67	72	69
12-06-17	67	62	70	62	76	73	74	70	66	70	68	62	76	69	52	52	72	63	72	66
13-06-17	67	61	71	65	77	74	77	68	65	70	68	61	76	70	52	59	72	65	73	67
14-06-17	67	57	73	66	77	74	75	72	72	72	67	62	76	71	52	54	71	68	73	69
15-06-17	65	55	67	63	76	74	71	71	71	74	68	61	75	70	51	52	65	61	71	66
16-06-17	65	57	67	63	76	74	74	70	67	73	66	59	75	72	52	53	66	61	71	68
17-06-17	66	58	70	60	77	73	74	71	70	66	68	61	75	68	52	52	68	60	71	65
18-06-17	69	60	66	61	75	73	74	71	74	71	67	62	73	69	52	52	65	59	70	66
19-06-17	68	59	66	63	77	73	75	71	69	76	66	63	75	69	53	52	65	63	72	68
20-06-17	68	60	66	61	77	74	75	75	72	72	67	63	75	70	53	51	70	59	71	66
21-06-17	67	59	68	61	77	74	75	70	67	73	67	62	76	70	51	54	70	58	71	65
22-06-17	65	55	67	60	77	74	75	71	76	73	67	64	76	68	52	51	67	58	71	65
23-06-17	65	55	69	65	76	74	75	73	71	74	67		76	72	52	51	66	57	71	68
24-06-17	65	59	67	61	77	74	75	75	75	71	67		75	69	55	50	67	56	72	66
25-06-17	65	55	69	60	76	73	74	70	69	72	68		74	69	52	58	68	58	71	66
26-06-17	62	54	68	59	76	73	75	69	73	75	67		76	68	54	57	66	58	71	65
27-06-17	66	64	69	63	77	74	74	68	68	72	68		76	71	54	54	69	58	72	69
28-06-17	67	64	67	63	76	74	75	71	72	77	68		76	71	51	53	69	61	73	68
29-06-17	69	65	69	64	76	74	76	73	69	72	69		78	72	52	51	68	58	73	69
30-06-17	65	57	67	62	76	74	76	71	74	73	66	59	77	71	53	51	67	59	72	68
01-07-17	64	65	66	64	76	74	75	71	73	78	66	64	76	70	52	51	75	71	71	68
02-07-17	66	62	67	61	76	73	74	70	63	66	66	62	74	69	51	51	74	70	71	66
03-07-17	65	60	66	61	76	73	75	70	72	76	66	61	75	69	52	59	75	70	71	66

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
04-07-17	66	58	67	58	76	73	75	71	67	74	67	60	75	68	51	53	75	71	71	64
05-07-17	67	63	71	63	76	73	76	72	70	70	68	62	76	71	53	52	76	72	72	67
06-07-17	66	64	68	63	76	74	75	72	73	65	67	64	76	71	51	50	73	70	71	67
07-07-17	62	56	65	58	77	74	75	71	73	70	65	60	76	68	50	50	65	61	71	65
08-07-17	62	58	65	59	76	74	74	71	63	67	65	61	75	69	51	50	63	61	70	65
09-07-17	64	62	67	61	75	74	74	71	69	72	67	64	74	70	51	47	66	64	70	67
10-07-17	65	57	66	61	77	73	75	70	67	66	66	61	76	68	52	48	66	62	71	64
11-07-17	64	58	73		76	74	77	69	69	68	66	61	75	69	51	50	67	61	71	65
12-07-17	63	62	60	57	77	74	75	73	70	68	65	64	75	71	49	43	65	66	72	69
13-07-17	64	58	60	59	77	74		77	74	73	66	61	76	70	53	52	66	61	72	65
14-07-17	64	59	58	53	77	74			69	73	67	61	76	69	52	52	64	61	71	66
15-07-17	64	57	62	55	76	74	79	87	79	76	67	61	76	68	51	51	65	59	71	63
16-07-17	63	54	65	57	75	73	76	84	78	83	66	59	75	67	51	52	65	59	70	63
17-07-17	64	61	65	60	77	73	74	71	79	79	67	63	76	70	51	50	65	62	71	67
18-07-17	67	60	66	59	76	74	74	71	78	78	67	61	76	70	52	50	66	61	72	66
19-07-17	69	62	69	60	77	74	75	71	76	78	69	62	78	70	51	49	67	59	73	66
20-07-17	68	61	69	59	77	74	74	67	70	72	68	60	78	69	52	51	68	59	72	65
21-07-17	67	64	70	62	77	74	65	66	66	73	68	65	76	71	52	51	67	65	71	70
22-07-17	68	61	70	61	76	74	74	71	79	78	68	63	76	69	52	51	71	61	70	66
23-07-17	67	62	68	61	76	73	74	70	75	73	67	62	74	68	52	51	68	61	70	66
24-07-17	66	56	68	58	77	73	75	70	72	75	66	59	76	66	58	52	67	58	71	63
25-07-17	66	59	68	59	77	74	74	71	73	81	68	62	76	68	52	51	67	61	71	65
26-07-17	65	62	69	62	77	75	74	72	73	78	66	63	75	70	52	50	67	64	70	67

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
27-07-17	65	60	68	61	77	75	82	84	70	79	66	63	75	69	59	55	66	61	72	66
28-07-17	67	62	70	62	77	75	75	76	77	77	68	63	76	71	66	64	68	61	71	68
29-07-17	63	59	68	62	77	74	74	76	80	79	65	62	75	70	57	55	65	62	70	66
30-07-17	62	60	65	59	76	73	74	72	75	80	65	62	73	68	56	54	70	62	70	65
31-07-17	63	66	65	66	77	73	74	72	73	75	65	65	75	72	55	55	64	65	71	69
01-08-17	65	65	68	65	76	74	75	74	77	78	65	65	75	72	54	56	66	63	71	68
02-08-17	64	63	67	63	77	74			79	80	65	64	75	73	50	53	66	62	71	68
03-08-17	64	60	66	60	77	74	68	78	79	81	65	61	74	69	51	50	66	59	71	65
04-08-17	65	59	65	59	77	74	86		77	80	66	62	75	69	52	51	67	60	71	65
05-08-17	64	57	70	58	77	74	86		82	83	66	60	75	71	49	48	66	60	71	64
06-08-17	63	58	71	58	76	73	84		77	82	66	62	73	67	51	50	66	58	70	64
07-08-17	62	60	66	59	77	73	76		76	83	65	61	74	69	50	51	64	63	70	66
08-08-17	64	59	67	61	77	74	78		83	84	65	60	74	69	53	50	66	60	71	64
09-08-17	66	60	67	62	77	74	83		81	84	67	61	76	69	51	50	66	60	71	66
10-08-17	63	58	66	61	77	74	85		83	82	66	61	75	68	52	52	65	60	71	65
11-08-17	65	58	70	63	77	74	84		84	81	67	60	76	68	52	51	67	59	71	64
12-08-17	63	58	66	60	76	74	88		81	81	65	61	75	68	56	55	66	63	70	64
13-08-17	65	60	66	62	76	73			73	82	65	61	74	69	52	51	68	60	70	64
14-08-17	63	56	67	58	76	73			75	80	66	59	74	65	52	50	66	60	69	62
15-08-17	63	59	65	59	76	73			77	80	66	61	73	68	50	50	65	59	69	66
16-08-17	65	60	66	59	77	74			76	76	67	61	75	69	48	50	68	61	71	66
17-08-17	64	59	64	63	77	74			73	61	67	62	75	69	50	50	65	60	71	66
18-08-17	64	61	68	69	77	75			68	51	67	64	76	71	51	47	66	62	71	67

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
19-08-17	66	58	67	66	77	74	74	76	69	49	67	62	76	70	51	50	66	59	71	65
20-08-17	65	56	66	59	76	73			70	47	68	61	75	68	51	51	65	60	70	63
21-08-17	64	60	65	59	77	73			69	48	67	61	75	69	53	52	65	60	72	65
22-08-17	62	57	65	58	77	74	71	75	67	58	66	60	75	69	52	51	63	58	71	64
23-08-17	63	59	65	59	77	74	80	82	70	57	65	61	76	70	52	52	65	58	71	66
24-08-17	63	62	65	62	77	74	82	81	68	62	66	63	76	71	54	52	64	63	71	68
25-08-17	61	60	65	61	75	74	74	81	65	59	63	61	73	69	62	61	65	62	69	66
26-08-17	64	59	67	60	76	73	74	75	70	57	66	60	76	69	55	55	65	62	71	64
27-08-17	63	57	65	64	76	74	77	80	64	45	65	60	75	69	51	50	65	68	71	65
28-08-17	64	58	66	59	77	73	74	75	65	52	65	61	76	70	56	54	63	58	71	65
29-08-17	67	61	66	60	77	74			67	56	68	60	77	69	56	58	65	59	71	65
30-08-17	65	60	67	60	77	74			66	59	65	61	76	69	54	51	65	61	71	65
31-08-17	63	59	65	60	77	74	70	76	68	63	65	61	76	70	54	51	67	60	71	67
01-09-17	62	55	66	59	77	74	73	75	64	59	65	60	76	69	62	63	72	62	70	61
02-09-17	62	56	66	58	76	74	69	70	70	50	64	59	75	68	55	57	71	61	70	63
03-09-17	63	55	67	57	76	73	73	71	70	59	66	60	75	68	59	62	70	62	69	63
04-09-17	62	57	66	58	76	73	72	76	68	63	64	59	75	68	58	59	64	62	69	65
05-09-17	64	60	66	60	77	74	71	72	69	60	65	61	76	69	61	57	64	61	69	66
06-09-17	64	59	67	59	77	74	78	77	70	69	65	61	76	69	59	54	65	61	70	66
07-09-17	65	58	68	61	77	74	71	76	69	64	67	61	76	69	51	48	66	61	71	66
08-09-17	65	60	67	59	77	74			69	64	67	61	76	69	61	57	66	58	70	65
09-09-17	63	56	67	60	77	74			68	69	66	59	76	68	61	64	66	58	69	64
10-09-17	63	55	67	57	76	73			70	65	65	58	74	67	62	59	67	57	70	63

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
11-09-17	65	56	69	60	77	73			68	67	67	60	76	67	62	58	67	58	69	63
12-09-17	64	57	67	61	77	74	79	81	68	66	65	61	76	68	53	54	64	58	69	64
13-09-17	67	57	70	60	77	74	77	78	68	66	69	61	76	67	56	54	67	58	71	66
14-09-17	65	61	68	61	77	74	79	79	67	68	66	62	76	71	54	53	65	58	71	67
15-09-17	62	58	66	58	77	74	71	74	61	64	65	60	75	69	61	54	64	58	69	65
16-09-17	62	59	66	60	77	74	74	75	67	69	65	62	75	70	53	53	65	60	70	64
17-09-17	67	61	66	63	76	73	72	76	70	67	66	61	75	69	53	51	65	58	69	66
18-09-17	67	62	67	61	77	73	68	73	69	70	68	64	77	71	53	50	67	62	70	67
19-09-17	67	56	66	59	77	74	67	73	68	66	66	59	77	68	52	49	66	58	70	66
20-09-17	67	61	68	60	77	74	69	68	63	66	68	62	77	70	54	53	66	62	70	67
21-09-17	66	62	67	61	77	74	73	72	61	63	67	62	76	70	52	51	68	59	69	67
22-09-17	62	55	65	58	77	74	64	70	62	64	64	58	75	68	52	53	64	57	69	64
23-09-17	63	57	66	58	77	74	73	76	65	66	65	59	75	69	51	53	65	57	69	64
24-09-17	62	58	63	60	76	73	77	79	66	67	63	59	74	69	51	51	65	56	68	64
25-09-17	64	58	66	58	77	73	79	79	65	64	65	60	75	70	52	51	65	57	69	65
26-09-17	62	54	65	57	77	74	76	77	73	71	64	59	75	68	52	51	63	57	69	63
27-09-17	62	56	65	57	77	74	72	74	66	68	64	59	75	69	56	54	66	62	69	65
28-09-17	63	55	66	58	77	74			67	69	66	60	76	69	54	52	71	76	70	64
29-09-17	62	56	64	57	76	73	75	78	65	66	64	59	74	69	55	53	64	57	69	64
30-09-17	60	57	64	58	76	72	72	79	66	64	64	59	74	69	56	55	64	56	69	66
01-10-17	60	62	64	63	75	73	80	78	72	68	62	63	73	69	47	48	64	61	73	68
02-10-17	62	57	65	60	75	73	75	78	66	60	63	58	74	68	51	51	64	58	68	63
03-10-17	63	58	68	60	77	74	70	78	71	66	65	59	77	69	71	52	65	59	69	65

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
04-10-17	64	60	66	60	77	74	80	79	66	66	66	62	76	72	52	57	64	67	69	69
05-10-17	62	55	65	57	77	74	81	82	67	68	64	59	76	69	56	54	65	57	70	63
06-10-17	64	55	67	57	77	74	78	82	63	63	67	61	76	70	52	60	66	56	70	63
07-10-17	65	57	68	60	77	74	78	80	62	64	66	61	77	69	52	64	68	59	73	67
08-10-17	65	59	68	60	76	73	76	79	61	61	65	60	76	69	55	60	67	59	69	65
09-10-17	65	55	68	60	77	73	79	82	66	62	65	59	77	67	53	57	66	58	70	63
10-10-17	63	56	66	58	77	74	78	82	71	68	65	58	76	68	52	52	65	57	70	63
11-10-17	63	56	66	59	77	74	77	83	64	65	65	59	76	69	57	54	65	57	70	63
12-10-17	62	58	65	57	77	74	83	84	66	69	64	60	76	70	53	51	64	60	70	65
13-10-17	62	56	65	57	77	74	81	78	68	64	67	59	76	70	52	51	63	58	70	63
14-10-17	61	55	66	58	77	74	80	79	63	66	67	60	76	70	52	52	64	59	70	63
15-10-17	61	58	64	57	76	73	77	78	60	66	67	61	75	70	52	52	64	59	69	64
16-10-17	63	59	65	57	77	73	79	76	62	61	65	60	77	70	55	52	65	62	71	65
17-10-17	64	61	66	62	77	73	80	77	68	70	65	61	77	71	52	52	66	66	71	67
18-10-17	69	62	73	62	74	72	75	81	68	66	73	63	75	70	55	55	73	64	75	67
19-10-17	63	59	66	59	75	71	69	74	64	66	69	64	74	67	54	52	66	60	73	63
20-10-17	64	62	67	61	76	73	76	77	66	63	68	65	76	71	53	51	65	59	70	66
21-10-17	65	61	68	61	76	73	74	76	61	61	68	63	76	71	55	52	65	61	70	65
22-10-17	61	56	65	57	75	73	71	71	62	60	65	60	75	69	52	52	63	55	68	62
23-10-17	62	54	65	58	77	73	73	73	66	64	63	57	76	68	54	53	63	56	70	63
24-10-17	63	55	66	58	77	74	74	70	64	63	64	58	76	69	53	54	67	58	69	62
25-10-17	65	54	68	56	77	74	76	77	67	67	65	58	76	68	52	52	66	57	71	63
26-10-17	65	56	66	57	77	74	79	80	70	68	64	58	76	69	53	52	64	57	71	63

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
27-10-17	67	56	69	59	77	74	78	79	61	61	67	59	76	69	53	52	67	64	71	65
28-10-17	66	56	68	58	77	74	74	79	67	65	65	59	76	69	51	51	65	57	71	64
29-10-17	72	59	73	62	75	73	75	75	62	62	68	60	75	68	52	51	69	61	74	67
30-10-17	65	59	66	64	78	74	72	74	72	72	66	62	73	68	56	55			72	66
31-10-17	63	61	65	61	77	75	74	64	72	72	64	61	74	66	45	42			71	67
01-11-17	65	60	66	61	77	74	72	70	71	73	65	61	75	68	42	43		79	72	66
02-11-17	69	57	68	63	77	74	70	69	71	73	66	61	75	68	48	53		79	73	66
03-11-17	67	60	68	66	76	74	68	64	71	72	66	63	70	41	59	62	66	67	72	66
04-11-17	63	59	64	60	77	73	62	65	73	74	66	59	75	67	58	59			66	59
05-11-17	67	56	68	56	75	72	67	69	77	81	66	58	73	66	48	44			66	58
06-11-17	63	55	65	56	77	72	70	70	80		64	57	75	65	47	52	73	70	64	57
07-11-17	62	55	64	56	77	73	66	67	81		65	59	75	67	44	58	65	67	65	59
08-11-17	67	54	68	56	77	74	78	74	48		66	58	75	67	61	60			66	58
09-11-17	70	56	70	57	77	73	69	73	54	41	66	60	76	67	58	58			66	60
10-11-17	65	55	67	58	77	74	66	75	46	45	65	59	75	68	64	64			65	59
11-11-17	71	58	71	60	76	73	68	68	46	42	64	59	75	67	58	61			64	59
12-11-17	68	61	67	62	76	73	65	67	58	58	66	60	73	68	63	56	70	68	66	60
13-11-17	66	62	65	62	77	74	73	70	47	45	64	60	73	66	56	54			64	60
14-11-17	65	58	66	58	77	74	70	69	49	50	64	58	73	65	49	45			64	58
15-11-17	62	55	65	56	77	73	75	72	51		63	57	73	66	56	54		73	63	57
16-11-17	63	54	65	55	76	73	73	68		78	64	57	73	66	52	51		73	64	57
17-11-17	63	55	65	55	77	73	71	70	49	44	64	57	75	68	52	50	70	68	64	57
18-11-17	63	54	66	55	76	73	68	69	42	42	65	57	74	67	54	55	78	73	65	57

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
19-11-17	63	53	65	56	75	73	69	68	56	51	64	56	72	66	55	56	80	72	67	58
20-11-17	65	54	67	58	76	73	73	72	54	46	65	56	74	66	51	52	79	74	69	61
21-11-17	66	55	68	57	76	73	70	71	46	45	65	57	72	57	51	51		77	71	65
22-11-17	66	56	68	58	77	74	70	70	48		65	58	74	41	51	50	79	79	72	65
23-11-17	64	54	65	56	77	74	69	69	52	43	64	59	75	44	51	50	76	75	69	63
24-11-17	63	54	66	57	77	74	70	71	50	52	64	59	73	51	51	50	75		68	60
25-11-17	70	59	71	62	76	73	70	70	53	47	67	62	71	47	51	50		78	77	70
26-11-17	64	63	65	64	76	73	67	71	52	46	64	61	66	46	50	51	73		72	71
27-11-17	69	60	70	64	77	74	76	74	54	41	67	63	76	49	51	42		76	77	74
28-11-17	69	57	69	61	77	74	73	71	47	47	66	66	75	67	50	50		78		
29-11-17	69	60	71	65	77	74	66	63	52	54	66	62	75	68	51	47	79	71	79	71
30-11-17	69	63	69	65	77	74	74	74	78	83	67	65	75	68	43	40		77		74
01-12-17	72	65	72	68	77	75	74	69	82	76	69	67	73	67	48	43	66	63	72	65
02-12-17	69	63	69	65	76	73	68	69	64	51	66	64	73	66	51	51	66	62	69	63
03-12-17	67	60	70	63	76	73	70	74	66	56	66	61	72	65	51	51	67	72	68	60
04-12-17	66	54	68	58	77	73	71	70	63	59	67	58	74	65	50	51				64
05-12-17	66	56	67	62	77	74	70	72	67	68	67	61	74	66	50	50		76		
06-12-17	66	58	68	62	77	74	68	69	71	73	66	61	74	66	50	50	78	73	78	73
07-12-17	65	54	66	56	77	74	71	71	69	70	64	57	74	66	61	62	78	74	78	74
08-12-17	63	53	65	55	77	74	74	72	70	69	64	58	74	66	60	63	76	71	76	71
09-12-17	61	52	64	56	77	74	74	72	65	66	64	58	73	66	60	64	72	75	71	73
10-12-17	62	52	64	55	76	73	70	70	73	72	63	57	72	65	60	64	77	72	76	72
11-12-17	62	52	65	54	77	73	71	72	73	71	64	57	74	65	54	52	74	76	74	

Table 2: Ambient Noise Monitoring Data of Chennai for the year 2017

Date	ANNA NAGAR (S)		EYEH (S)		GNDY (I)		PALLIKARANAI (C)		PRMB (C)		SOWCARPET (R)		TNGR (C)		TRLN (R)		VELACHERRY (R)		WASHERMANPET (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
12-12-17	63	53	66	55	77	74	76	72	66	70	64	57	74	66	50	50	74	78	70	73
13-12-17	64	54	66	56	77	74	77	75	65	70	64	57	74	66	50	50	67	74	68	55
14-12-17	65	52	67	56	77	74	74	77	72	78	65	57	74	66	50	49	72	76	73	72
15-12-17	68	54	70	61	74	74	75	70	72	71	66	59	74	67	50	50	72	73	75	68
16-12-17	68	64	70	66	77	74	70	70	74	72	66	64	75	68	50	49	71	68	72	72
17-12-17	71	63	72	66	76	73	71	69	72	71	68	64	73	67	50	50	75	69	76	73
18-12-17	70	66	71	68	77	73	66	68	76	80	67	64	75	69	51	50		76	75	75
19-12-17	71	61	73	67	77	74	71	73	81		68	63	75	69	51	51		68	79	73
20-12-17	70	58	70	61	77	74	71	70	74	82	68	59	75	68	51	51		70	79	69
21-12-17	68	60	69	63	77	74	73	72	71	74	66	59	75	68	50	50		74	76	68
22-12-17	69	55	70	57	77	74	76	78	73	70	66	59	75	67	50	50	75	79	76	65
23-12-17	66	56	68	60	76	74	74	73	64	68	66	60	74	67	51	50	68	73	71	67
24-12-17	66	54	68	57	76	73	74	73	72	74	65	58	73	66	51	50	73	74	74	64
25-12-17	66	54	68	56	76	73	76	75	69	70	64	58	73	66	50	55	69	69	75	63
26-12-17	69	54	70	57	77	73	73	73	68	66	66	58	74	66	50	50	67	67	76	63
27-12-17	69	54	69	62	77	74	71	73	71	72	66	59	75	67	51	50	67	68	74	69
28-12-17	66	53	68	58	77	74	71	70	72	74	66	59	75	67	51	51	67	67	72	67
29-12-17	67	56	69	62	77	74	72	74	69	67	66	58	75	67	51	51	62	63	75	68
30-12-17	67	53	68	60	77	74	72	71	67	65	65	58	75	67	51	52	64	65	71	61

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-01-17	66	64	62	60	63	58	52	48	53	53	71	69	50	44	56	54	56	54	60	55
02-01-17	67	64	61	60	66	55	54	50	53	53	72	67	50	44	56	55	57	52	58	52
03-01-17	67	64	61	60	66	56	53	48	53	53	72	67	60	48	57	56	57	51	58	51
04-01-17	67	64	61	59	66	56	54	48	53	53	72	67	57	50	58	57	57	51	59	52
05-01-17	66	64	61	60	65	56	55	49	53	53	72	67	57	49	58	56	56	52	58	53
06-01-17	67	63	62	61	69	53	54	47	53	53	72	67	50	46	56	55	59	52	61	56
07-01-17	68	64	62	58	63	58	52	50	53	53	71	68	57	47	57	54	60	56	56	49
08-01-17	67	63	62	60	66	55	51	48	53	53	70	67	57	47	57	56	56	50	56	47
09-01-17	68	63	62	60	66	56	55	48	53	53	72	67	58	44	57	56	57	50	57	50
10-01-17	67	64	61	60	66	56	55	51	53	53	72	67	56	47	57	54	59	51	59	50
11-01-17	68	64	63	59	66	56	54	50	53	53	72	67	56	45	59	54	59	51	56	50
12-01-17	67	64	62	60	66	56	56	49	53	53	72	67	52	47	57	54	57	51	61	51
13-01-17	68	64	62	59	66	57	54	51	53	53	72	67	51	49	57	55	57	51	61	51
14-01-17	67	64	61	59	65	56	52	47	53	53	70	67	59	50	56	54	56	53	62	53
15-01-17	67	64	61	59	64	55	53	49	53	53	70	67	60	49	56	53	56	50	61	51
16-01-17	67	64	62	59	67	57	54	50	53	53	72	67	56	47	57	53	59	53	61	52
17-01-17	68	64	61	59	67	56	54	48	53	53	72	66	56	47	57	53	57	50	59	53
18-01-17	67	64	63	61	67	56	54	49	53	53	72	67	60	48	57	54	57	51	56	52
19-01-17	67	64	62	60	66	58	55	51	53	53	72	67	58	49	58	53	59	52	60	49
20-01-17	67	63	62	59	67	57	55	51	53	53	72	67	51	48	58	54	59	52	62	50
21-01-17	67	63	61	59	66	57	53	49	53	53	71	67	58	47	57	53	58	52	63	53
22-01-17	67	64	60	59	64	56	53	49	53	53	70	67	58	44	56	53	57	52	59	52
23-01-17	67	64	62	59	67	58	55	50	53	53	73	67	58	47	57	54	59	52	61	53

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
24-01-17	66	64	62	60	68	57	56	49	53	53	72	67	57	48	57	54	58	51	60	51
25-01-17	67	64	62	60	67	57	55	50	53	53	72	66	57	47	56	54	63	53	56	50
26-01-17	67	63	61	58	64	56	56	49	53	53	71	67	60	48	57	50	59	53	55	50
27-01-17	68	63	64		67	56	54	47	53	53	72	66	57	46	58	51	62	50	62	50
28-01-17	67	64	66		66	56	54	46	53	53	71	67	58	48	57	51	60	50	61	52
29-01-17	67	64	62	61	64	56	52	48	53	53	71	67	53	48	57	52	58	53	63	54
30-01-17	67	64	62	59	67	57	55	46	53	53	73	67	55	47	57	53	58	51	64	55
31-01-17	67	64	62	60	68	57	56	48	53	53	72	67	56	46	58	54	58	51	55	50
01-02-17	67	63	63	61	67	57	55	49	50	53	72	67	55	49	58	55	59	51	63	52
02-02-17	67	63	62	61	67	58	56	48	53	53	72	67	54	49	58	56	58	52	60	56
03-02-17	67	64	62	60	67	57	56	50	52	53	72	67	55	48	57	55	58	51	63	54
04-02-17	69	63	62	61	66	58	55	48	53	52	72	67	56	46	58	53	62	54	64	54
05-02-17	66	63	61	60	64	57	55	48	53	53	71	67	52	48	58	53	59	54	61	54
06-02-17	67	63	62	60	67	58	57	49	53	53	72	67	57	47	58	54	60	51	64	53
07-02-17	67	63	62	60	67	57	58	50	48	52	72	67	58	49	60	54	60	52	63	53
08-02-17	66	63	62	59	67	58	57	49	53	52	72	67	54	48	59	54	61	53	63	53
09-02-17	67	63	62	59	67	56	59	50	53	52	72	67	60	48	59	54	61	52	62	53
10-02-17	67	63	63	60	67	57	55	50	53	52	72	67	58	49	59	54	61	51	60	54
11-02-17	67	64	61	59	66	57	54	49	53	52	71	68	53	48	59	55	57	52	58	53
12-02-17	66	63	61	59	64	57	54	50	53	52	70	67	52	48	59	55	58	53	59	53
13-02-17	67	64	62	59	67	57	57	48	53	52	72	70	58	48	59	55	60	52	62	54
14-02-17	67	63	62	59	67	58	57	50	53	52	72	67	58	49	59	55	60	52	63	54
15-02-17	67	63	62	59	67	58	56	51	53	52	72	68	56	49	58	55	59	52	63	56

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
16-02-17	68	63	62	59	67	59	56	51	53	53	72	67	58	50	58	55	60	54	63	55
17-02-17	67	63	62	59	67	58	59	53	53	53	72	67	57	50	58	54	60	53	63	55
18-02-17	66	64	61	60	66	58	63	59	53	53	71	68	58	50	57	55	60	52	61	54
19-02-17	67	63	60	59	64	59	67	59	53	53	70	68	52	48	56	55	58	52	59	53
20-02-17	66	63	62	59	67	58	59	57	53	53	72	68	54	47	58	54	58	52	63	54
21-02-17	67	63	64	59	67	57	55	52	53	53	72	69	57	48	57	54	60	52	64	53
22-02-17	67	64	62	60	67	58	55	49	53	53	72	67	59	48	57	55	59	52	63	53
23-02-17	68	63	63	59	67	59	56	50	53	53	72	67	62	50	58	56	63	53	64	55
24-02-17	67	63	63	60	65	58	55	49	53	53	70	67	65	51	58	54	65	56	64	54
25-02-17	67	63	63	60	66	58	55	51	53	52	71	67	61	52	58	54	63	57	63	54
26-02-17	67	63	62	59	64	58	54	50	53	52	71	70	58	49	57	54	61	52	61	53
27-02-17	67	63	62	59	67	59	56	50	53	52	72	68	55	51	58	55	59	53	62	54
28-02-17	66	64	61	61	67	58	55	51	53	52	72	68	53	48	56	57	58	52	60	55
01-03-17	67	63	61	60	67	59	55	51	53	53	72	68	55	47	56	55	58	52	63	54
02-03-17	67	63	62	60	67	58	55	49	53	53	72	69	53	49	57	52	58	52	62	54
03-03-17	67	63	62	60	67	58	55	51	53	53	71	68	58	48	57	54	59	52	59	54
04-03-17	67	63	61	59	66	58	54	50	53	53	71	67	58	49	58	55	60	53	59	54
05-03-17	67	63	62	59	64	58	55	50	53	55	70	68	60	49	57	54	60	52	60	54
06-03-17	67	63	62	59	67	58	55	51	53		71	67	58	49	58	54	60	51	60	53
07-03-17	67	64	61	59	67	58	55	49	53	53	72	68	51	48	58	55	57	51	58	53
08-03-17	67	64	62	60	67	57	57	50	53	53	72	67	58	52	59	52	60	53	62	55
09-03-17	68	64	62	59	67	58	55	51	53	53	72	68	55	47	57	53	60	53	61	53
10-03-17	69	66	62	60	67	58	57	49	53	53	73	68	56	50	57	52	62	56	62	57

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
11-03-17	70	67	61	60	66	57	56	50	53	52	71	68	52	51	56	53	58	55	60	56
12-03-17	68	67	60	59	64	58	53	50	53	52	70	68	56	49	57	54	58	53	59	56
13-03-17	62	62	60	56	62	55	54	48	53	52	67	66	56	47	55	51	58	50	58	52
14-03-17	66	63	61	57	66	55	54	49	53	52	71	66	55	47	56	53	58	48	57	52
15-03-17	68	64	62	59	67	56	55	49	53	52	72	67	58	48	57	54	59	51	59	52
16-03-17	68	65	61	59	66	57	56	49	53	52	72	67	54	48	57	53	58	51	59	53
17-03-17	68	65	62	59	67	56	57	51	53	52	72	67	60	48	57	53	61	51	59	53
18-03-17	68	65	61	60	66	57	55	49	53	53	71	67	53	48	57	54	58	52	58	53
19-03-17	67	65	60	59	64	57	54	50	53	53	70	68	55	47	57	54	58	52	58	54
20-03-17	68	65	62	59	67	57	56	52	53	53	71	67	59	49	58	54	60	51	61	53
21-03-17	68	65	62	59	67	59	56	50	53	53	72	67	56	48	57	54	59	52	60	53
22-03-17	68	64	62	59	67	58	56	52	53	53	72	67	57	48	59	56	60	52	60	53
23-03-17	67	64	61	60	66	58	55	53	53	53	71	67	51	49	56	55	57	51	60	52
24-03-17	67	65	62	59	66	58	60	57	53	53	71	67	57	49	57	53	59	52	60	53
25-03-17	68	64	61	60	66	58	56	53	53	53	71	68	60	52	57	53	61	52	59	53
26-03-17	67	64	61	59	64	58	55	52	53	53	70	67	63	51	57	53	62	54	60	52
27-03-17	68	65	62	59	67	58	55	50	53	53	71	67	61	53	57	53	62	54	60	52
28-03-17	67	65	62	59	66	58	55	52	53	53	71	67	58	51	57	54	59	51	58	53
29-03-17	67	64	62	59	66	57	55	50	53	53	71	67	60	51	59	56	60	51	62	53
30-03-17	68	65	63	59	66	57	56	51	53	53	71	67	58	50	59	55	61	52	62	53
31-03-17	67	64	62	59	67	58	57	52	53	53	71	67	54	48	58	57	59	51	60	53
01-04-17	68	64	61	59	66	58	55	49	53	53	70	67	57	48	56	54	60	52	62	53
02-04-17	68	64	61	59	64	58	55	51	53	53	70	68	58	48	57	53	60	52	59	52

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
03-04-17	67	64	62	59	67	57	54	51	53	53	71	68	56	49	57	54	59	53	61	53
04-04-17	67	64	62	61	65	57	55	50	53	53	70	68	62	50	56	55	61	54	62	53
05-04-17	69	65	64	62	67	59	57	52	53	53	72	68	64	55	58	58	68	60	67	59
06-04-17	68	64	63	61	66	59	56	52	53	53	71	67	59	55	58	56	63	63	64	57
07-04-17	67	64	63	60	66	57	55	49	53	53	71	67	57	48	56	54	59	53	61	54
08-04-17	68	64	62	62	64	57	53	51	53	53	70	67	55	48	56	56	58	53	58	54
09-04-17	68	64	63	62	63	58	53	49	53	53	70	71	65	56	57	53	63	54	60	52
10-04-17	69	65	64	61	66	58	56	51	53	53	71	68	65	52	59	54	67	54	64	53
11-04-17	68	64	64	63	66	58	56	52	53	53	71	67	64	51	59	55	65	54	64	53
12-04-17	68	65	64	62	66	58	55	49	53	53	71	67	61	50	58	55	62	53	60	53
13-04-17	67	65	64	63	66	59	56	53	53	53	71	68	52	48	57	57	56	53	61	54
14-04-17	67	65	63	63	64	58	56	52	53	53	70	68	52	49	56	56	56	53	60	55
15-04-17	68	65	65	64	65	58	55	50	53	53	70	68	59	49	56	57	60	53	61	55
16-04-17	68	65	64	64	63	58	53	52	53	53	70	69	53	48	55	55	55	52	57	54
17-04-17	67	65	65	64	67	58	55	51	53	53	72	68	56	46	56	54	58	52	61	54
18-04-17	67	65	65	65	66	58	56	50	53	53	71	67	58	48	58	56	58	52	62	54
19-04-17	68	64	65	65	66	59	55	53	53	53	71	67	56	50	56	57	59	52	62	55
20-04-17	68	65	64	63	66	58	53	50	53	53	71	67	55	47	56	56	58	53	61	54
21-04-17	67	65	63	61	67	58	54	49	53	53	71	67	55	46	56	52	59	54	63	56
22-04-17	67	65	63	62	66	58	54	51	53	53	70	67	59	47	55	53	61	54	62	54
23-04-17	67	64	63	62	62	58	55	49	53	53	70	67	56	48	55	54	56	52	57	53
24-04-17	68	65	65	64	67	58	55	51	53	53	71	67	60	53	57	54	60	56	62	54
25-04-17	68	66	66	65	66	59	55	52	53	53	71	67	60	51	57	54	62	55	62	55

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
26-04-17	68	64	64	64	66	59	55	50	53	53	71	68	58	48	56	54	59	53	62	54
27-04-17	68	65	64	63	66	58	55	52	53	53	71	68	58	50	56	55	58	53	61	55
28-04-17	67	64	65	64	67	59	55	52	53	53	71	68	60	48	57	55	63	54	63	55
29-04-17	68	65	65	64	65	59	54	51	53	53	70	68	55	48	56	55	59	53	60	55
30-04-17	68	64	63	64	64	59	53	52	53	53	70	68	55	52	56	53	59	57	61	55
01-05-17	68	64	64	63	66	58	54	50	53	53	71	68	56	47	56	54	58	51	62	55
02-05-17	68	64	63	63	66	59	56	50	53	53	71	69	56	47	56	55	58	51	62	55
03-05-17	69	65	64	63	66	59	56	52	53	53	72	68	58	47	57	54	60	53	62	55
04-05-17	68	65	64	62	67	59	56	50	53	53	72	68	59	48	57	54	60	52	62	56
05-05-17	68	65	64	63	67	59	55	52	53	53	71	68	58	48	57	55	60	52	62	55
06-05-17	67	64	62	62	66	59	55	52	53	53	71	68	55	50	56	56	57	52	60	56
07-05-17	68	69	61	61	63	59	54	49	53	53	69	68	52	50	55	56	55	52	58	54
08-05-17	68		62	61	66	58	56	51	53	53	71	67	53	46	57	54	57	52	60	55
09-05-17	68	65	63	61	66	59	55	51	53	53	71	67	54	48	55	54	60	54	61	55
10-05-17	69	65	62	63	64	59	54	50	53	53	70	67	55	53	55	53	60	58	60	56
11-05-17	68	64	62	61	66	59	55	52	53	53	71	67	50	49	56	54	57	55	59	56
12-05-17	68	65	62	61	66	59	55	51	53	53	71	71	50	47	56	54	58	51	58	55
13-05-17	68	65	61	61	65	59	56	50	53	53	70	68	54	48	56	55	57	51	57	55
14-05-17	68	66	60	61	63	59	53	52	53	53	70	68	52	46	55	55	55	51	57	54
15-05-17	68	65	62	61	66	59	55	49	53	53	70	67	56	46	56	55	59	51	60	54
16-05-17	67	65	62	61	66	59	56	51	53	53	71	67	58	54	56	53	58	54	58	55
17-05-17	69	65	62	62	66	60	57	53	53	53	71	67	52	47	56	54	58	56	58	56
18-05-17	68	66	63	61	66	59	55	49	53	53	71	67	53	46	56	54	58	53	59	56

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
19-05-17	68	65	64	62	66	59	56	52	53	53	72	68	54	45	57	53	60	51	61	55
20-05-17	68	65	61	62	65	59	55	51	53	53	70	67	52	49	56	54	58	53	60	55
21-05-17	69	66	62	61	64	59	57	50	53	53	71	68	55	50	55	54	58	53	59	55
22-05-17	69	65	64	62	66	59	57	53	53	53	72	68	54	48	58	54	59	52	59	55
23-05-17	68	65	63	62	65	58	55	51	53	53	71	68	55	47	57	54	57	51	58	55
24-05-17	68	65	63	62	66	59	56	51	53	53	71	68	52	46	56	53	58	51	59	55
25-05-17	69	65	63	62	65	59	57	52	53	53	71	68	52	46	56	53	57	52	57	54
26-05-17	68	66	63	62	65	59	57	50	53	53	71	67	54	53	56	53	58	55	58	57
27-05-17	68	65	63	63	65	59	57	54	53	53	70	67	58	54	57	55	62	60	61	57
28-05-17	68	67	63	64	63	60	56	54	53	53	70	68	60	57	57	54	63	64	62	60
29-05-17	69	65	64	63	66	59	57	52	53	53	72	68	57	50	56	54	62	58	61	58
30-05-17	68	66	64	62	66	64	60	52	53	53	72	68	56	50	55	53	57	53	59	56
31-05-17	68	65	65	63	66	66	56	52	53	53	72	68	56	50	59	54	61	56	62	56
01-06-17	68	65	64	63	66	63	58	52	53	53	72	68	56	49	56	55	57	52	60	56
02-06-17	68	65	65	63	65	61	60	53	53	53	71	68	53	49	57	55	57	53	58	55
03-06-17	69	66	64	63	65	60	57	52	53	53	70	67	59	49	57	55	60	54	59	55
04-06-17	68	65	64	63	63	59	61	52	54	53	69	67	58	48	56	56	61	51	58	54
05-06-17	68	65	65	63	66	58	59	53	53	53	71	67	60	48	57	54	64	54	62	56
06-06-17	68	66	65	65	65	59	60	51	53	53	71	67	56	54	57	54	61	58	61	57
07-06-17	70	67	66	65	66	59	58	53	53	53	72	68	59	52	57	54	64	61	63	58
08-06-17	69	66	63	63	66	58	56	52	53	53	71	68	56	46	57	54	59	52	60	55
09-06-17	68	66	63	62	66	57	58	51	53	53	71	67	53	46	56	54	58	52	58	56
10-06-17	69	65	62	63	65	58	59	52	53	53	70	67	55	45	56	54	58	52	60	56

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
11-06-17	69	66	62	63	63	59	58	51	53	53	70	68	54	52	56	54	56	57	58	57
12-06-17	69	66	63	62	66	58	59	50	53	53	71	67	59	47	56	54	58	52	58	54
13-06-17	68	66	64	63	65	58	57	52	53	53	71	68	57	49	56	55	60	53	59	54
14-06-17	69	67	65	64	65	58	57	51	53	53	71	68	59	51	57	54	61	54	61	55
15-06-17	69	66	64	63	66	58	57	50	53	53	71	68	57	47	56	53	58	51	58	53
16-06-17	69	67	65	64	66	60	55	54	53	53	72	68	54	52	57	56	59	56	62	58
17-06-17	69	66	65	65	65	59	57	51	53	53	71	68	54	47	57	54	58	53	59	56
18-06-17	69	67	65	64	63	58	55	53	53	53	70	68	54	48	56	55	59	52	60	55
19-06-17	69	66	64	65	66	60	56	56	53	53	71	68	57	51	57	55	58	54	59	58
20-06-17	68	68	64	62	66	60	56	55	53	53	72	69	55	51	57	56	58	56	60	56
21-06-17	69	68	64	62	66	60	56	56	53	53	72	69	56	51	57	56	59	54	63	57
22-06-17	68	67	64	61	66	59	55	55	53	53	72	68	56	49	57	55	58	52	61	56
23-06-17	68	67	63	61	66	58	56	54	53	53	71	68	54	48	56	56	57	51	61	56
24-06-17	70	68	61	61	66	58	55	55	53	53	70	68	51	48	55	54	56	51	60	55
25-06-17	69	67	60	61	63	58	54	56	53	53	70	68	50	46	56	54	57	52	58	54
26-06-17	68	66	60	60	63	58	54	55	53	53	70	68	51	49	55	54	58	55	60	55
27-06-17	69	65	63	61	66	58	55	55	53	53	72	68	55	48	55	53	62	53	62	55
28-06-17	70	67	64	62	66	60	57	56	53	53	73	69	56	52	57	56	61	56	63	59
29-06-17	69	70	64	62	66	59	58	55	53	53	72	68	52	48	57	57	59	54	64	57
30-06-17	69	67	64	62	66	59	59	56	53	53	73	68	53	50	58	56	60	52	62	57
01-07-17	69	66	63	62	65	59	57	55	53	53	71	68	56	50	57	56	59	51	62	56
02-07-17	70	72	63	62	64	59	56	55	53	53	70	68	53	49	56	55	58	53	62	57
03-07-17	64	62	64	62	66	60	56	55	53	53	71	68	54	50	57	55	59	52	62	56

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
04-07-17	65	63	65	63	66	59	56	53	53	53	71	67	58	52	57	55	61	53	63	56
05-07-17	64	63	64	63	67	59	55	54	53	53	71	67	58	49	57	54	60	53	63	56
06-07-17	67	68	65	63	66	59	56	54	53	53	72	68	59	47	56	54	59	56	63	56
07-07-17	69	68	65	64	67	59	58	55	53	53	72	67	59	48	56	54	59	53	63	57
08-07-17	69	67	65	65	65	58	55	55	53	53	70	67	53	48	56	55	56	54	57	54
09-07-17	68	65	67	66	63	59	54	53	53	53	70	68	54	46	56	55	60	53	59	54
10-07-17	68	65	67	66	66	59	55	53	53	53	71	67	58	48	56	55	60	53	62	55
11-07-17	69	66	66	65	67	59	55	53	53	53	72	67	60	50	55	54	59	52	63	55
12-07-17	69	67	65	65	66	59	53	52	53	53	72	67	61	49	56	56	59	55	61	55
13-07-17	69	66	66	65	67	59	52	51	53	53	72	67	62	48	55	55	62	52	61	55
14-07-17	69	66	64	63	67	58	53	52	53	53	72	67	62	48	55	55	60	52	61	57
15-07-17	69	66	64	63	65	58	54	58	53	53	71	68	60	48	55	56	60	52	62	55
16-07-17	69	66	62	63	63	58	52	52	53	53	70	68	52	46	55	55	56	52	59	56
17-07-17	68	66	64	62	67	59	53	53	53	53	72	67	60	46	55	55	59	51	62	54
18-07-17	69	66	62	59	67	58	53	54	53	53	72	67	58	46	55	55	59	50	61	55
19-07-17	69	67	62	60	67	59	52	54	53	53	72	67	60	47	54	56	58	50	61	55
20-07-17	69	71	63	61	67	61	55	57	53	53	72	68	59	49	55	56	59	53	62	57
21-07-17	69	68	62	60	68	59	53	57	53	53	72	67	60	50	55	56	61	54	62	58
22-07-17	69	66	62	61	66	58	56	56	53	53	72	67	62	54	56	55	63	61	63	59
23-07-17	68	66	63	60	64	58	55	56	53	53	71	68	58	50	56	57	62	55	60	56
24-07-17	68	66	63	59	67	59	55	56	53	53	72	68	59	50	57	58	62	56	62	57
25-07-17	68	65	62	60	67	59	58	56	53	53	73	68	59	50	57	58	61	56	62	56
26-07-17	68	66	63	59	67	58	59	57	53	53	72	67	60	48	56	60	59	50	63	55

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
27-07-17	68	65	63	60	67	58	56	56	53	53	72	68	60	48	56	59	62	50	62	55
28-07-17	68	66	63	60	67	58	56	56	53	53	72	67	62	48	56	60	63	52	63	56
29-07-17	68	65	62	60	66	58	54	57	53	53	71	67	58	50	57	58	64	57	63	56
30-07-17	68	65	60	59	64	58	53	57	53	53	70	68	53	48	56	56	56	51	59	54
31-07-17	68	65	63	59	67	58	57	56	53	53	72	67	58	49	57	57	59	51	59	53
01-08-17	68	66	64	59	67	58	59	57	53	53	72	67	62	49	58	57	60	50	62	54
02-08-17	69	65	63	59	68	59	56	58	53	53	72	67	59	48	58	56	60	50	61	54
03-08-17	68	66	63	60	67	59	55	57	53	53	72	68	60	49	57	56	63	56	62	55
04-08-17	68	65	63	60	68	58	54	57	53	53	72	67	57	50	57	55	60	56	61	57
05-08-17	69	66	61	60	66	58	53	57	53	53	71	67	57	48	56	55	59	50	60	53
06-08-17	69	68	60	59	64	59	53	57	53	53	70	68	54	47	56	54	58	51	56	53
07-08-17	68	69	62	58	65	58	54	57	53	53	71	67	55	47	57	55	57	48	59	54
08-08-17	68	70	62	59	67	58	55	57	53	53	72	67	57	47	58	58	58	49	63	55
09-08-17	68	67	63	59	67	58	56	57	53	53	72	67	58	47	58	57	59	49	62	54
10-08-17	68	65	63	60	67	59	55	57	53	53	72	67	58	48	58	56	60	50	62	55
11-08-17	68	65	63	63	67	59	56	58	53	53	72	68	60	50	58	56	64	60	63	59
12-08-17	68	65	63	64	66	59	56	57	53	53	71	67	56	52	57	54	63	62	61	61
13-08-17	68	65	60	61	64	58	53	56	53	53	69	68	53	49	56	55	59	59	58	57
14-08-17	68	65	62	59	66	58	55	56	53	53	71	66	57	47	56	55	58	54	61	55
15-08-17	68	65	59	59	62	57	52	57	53	53	69	66	54	48	55	55	56	54	58	54
16-08-17	68	64	62	59	67	58	54	57	53	53	71	67	58	48	57	54	62	52	60	54
17-08-17	68	65	63	61	67	59	54	56	53	53	72	67	58	48	56	55	61	53	61	55
18-08-17	69	65	62	60	67	59	53	56	53	53	71	67	58	47	56	54	60	52	61	55

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
19-08-17	68	65	61	61	67	59	55	56	53	53	71	67	59	49	57	53	61	54	63	55
20-08-17	67	64	59	59	64	59	52	56	53	53	70	68	54	48	55	53	58		60	54
21-08-17	68	64	62	60	68	58	54	56	53	53	72	67	57	48	56	54	61	54	62	55
22-08-17	68	64	62	60	67	58	54	56	53	53	72	67	58	47	57	54	60	53	62	54
23-08-17	71	65	62	60	68	58	53	55	53	53	72	68	57	46	57	54	61	50	63	54
24-08-17	68	67	62	60	68	58	56	55	53	53	72	68	56	46	56	54	58	51	63	54
25-08-17	68	65	62	60	69	58	57	56	53	53	72	67	58	46	56	54	60	50	64	56
26-08-17	68	64	60	61	66	57	54	55	53	53	71	68	58	46	55	54	60	50	63	54
27-08-17	68	65	59	60	64	57	53	54	53	53	70	68	53	47	55	54	56	50	61	54
28-08-17	68	65	63	59	67	57	57	54	53	53	72	67	59	48	57	53	64	53	63	56
29-08-17	68	65	63	60	68	58	57	55	53	53	73	68	61	48	56	53	64	53	65	55
30-08-17	69	66	63	61	68	58	56	55	53	53	72	69	59	52	57	54	62	59	64	57
31-08-17	70	67	64	60	68	58	57	56	53	53	73	68	58	46	59	53	60	52	62	54
01-09-17	69	68	63	60	68	59	56	57	53	53	72	69	57	47	58	55	59	50	64	55
02-09-17	68	66	61	60	65	58	55	56	53	53	71	68	56	48	57	54	58	50	59	54
03-09-17	68	65	61	59	64	58	53	56	53	53	71	68	52	51	56	54	55	52	60	54
04-09-17	68	67	63	60	68	58	56	57	53	53	72	69	57	51	57	54	60	50	62	54
05-09-17	69	65	62	60	69	59	55	55	53	53	72	68	57	50	56	54	59	50	61	53
06-09-17	69	65	62	59	67	57	55	55	53	53	74	68	56	49	57	54	60	50	64	54
07-09-17	69	65	64	59	68	58	58	56	54	53	73	69	57	49	56	55	58	53	62	55
08-09-17	68	65	61	57	67	57	60	56	53	53	73	69	59	48	57	55	60	49	61	54
09-09-17	69	65	60	57	67	58	56	56	53	53	72	69	52	47	56	55	57	49	58	53
10-09-17	70	66	58	57	64	57	53	56	53	53	71	69	50	47	55	54	55	49	57	52

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
11-09-17	68	65	61	57	68	58	56	55	53	53	73	69	57	48	56	54	59	49	60	54
12-09-17	68	65	63	57	68	57	57	55	53	53	73	69	56	47	55	54	57	50	62	54
13-09-17	69	65	63	57	68	57	57	56	53	53	73	69	54	46	55	54	57	50	61	54
14-09-17	68	65	63	58	67	58	57	57	53	53	73	69	54	47	55	54	57	49	61	53
15-09-17	68	66	63	57	68	58	55	56	53	53	73	68	54	46	55	53	57	50	61	55
16-09-17	69	66	62	58	66	57	55	55	53	53	72	69	54	47	55	53	57	50	61	55
17-09-17	68	65	58	57	64	59	54	56	53	53	72	69	56	47	55	52	56	50	57	53
18-09-17	68	66	65	57	57	66	56	56	53	53	73	68	57	48	56	53	59	50	60	52
19-09-17	68	66	62	57	57	67	55	55	53	53	73	69	53	49	55	53	57	50	61	53
20-09-17	68	66	62	57	58	67	55	55	53	53	73	69	52	48	56	54	57	51	61	54
21-09-17	68	65	62	58	57	67	55	55	53	53	73	69	54	47	56	52	58	53	62	54
22-09-17	69	66	63	58	57	68	56	55	53	53	74	69	58	49	57	52	65	61	64	54
23-09-17	69	66	62	57	57	66	58	56	53	53	73	69	55	53	57	54			61	55
24-09-17	68	65	59	57	57	65	55	55	53	53	72	69	54	49	56	53	58	61	58	54
25-09-17	68	65	61	57	64	56	56	55	53	53	73	69	53	47	57	54	58	57	60	55
26-09-17	67	65	62	58	68	58	56	56	53	53	73	69	55	48	56	54	59	51	58	55
27-09-17	67	65	61	57	67	58	57	55	53	53	73	69	52	47	56	56	57	52	58	54
28-09-17	68	66	62	59	67	58	56	55	53	53	73	69	52	48	56	55	56	51	58	53
29-09-17	68	66	64	57	66	59	56	54	53	53	73	69	52	47	56	55	57	51	59	54
30-09-17	67	65	59	58	65	59	52	53	53	53	72	69	52	50	56	56	58	52	59	54
01-10-17	67	65	58	56	63	57	51	52	51	52	71	69	52	48	55	54	57	51	57	52
02-10-17	67	65	58	56	63	57	51	52	51	52	71	68	55	47	55	54	57	54	58	53
03-10-17	68	66	60	57	68	58	55	52	55	52	73	69	57	47	56	54	60	63	58	53

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
04-10-17	68	65	64	58	68	58	55	53	55	53	73	69	57	47	56	54	59	61	58	52
05-10-17	68	65	59	57	67	59	55	53	55	53	73	68	54	50	56	55	58	66	58	54
06-10-17	68	65	63	57	66	58	56	53	56	53	73	69	59	50	56	54	59	66	59	55
07-10-17	68	65	61	57	66	58	57	55	57	55	72	69	56	47	55	55	59	65	58	54
08-10-17	68	65	56	56	64	57	53	51	53	51	72	69	58	47	54	54	55	65	57	53
09-10-17	67	65	65	56	67	57	56	51	56	51	73	69	56	46	56	55	59	63	61	54
10-10-17	69	65	65	57	67	58	55	51	55	51	73	69	55	46	56	55	58	66	60	54
11-10-17	68	65	62	57	67	58	56	52	56	52	73	69	57	47	55	55	59	63	61	54
12-10-17	69	65	63	57	67	58	55	51	52	50	74	70	56	48	56	55	58	61	59	55
13-10-17	69	65	62	57	67	58	56	52	52	50	73	70	55	47	57	56	59	63	59	55
14-10-17	68	66	60	58	66	58	53	50	52	49	72	69	49	47	56	56	55		57	54
15-10-17	69	67	59	58	64	58	51	49	51	49	72	70	50	48	56	57	55		57	52
16-10-17	69	67	63	58	67	58	54	49	51	54	73	69	55	47	57	56	56		57	53
17-10-17	70	67	63	59	67	58	53	50	53	50	73	69	56	47	57	55	59	64	61	53
18-10-17	69	69	63	59	66	59	52	51	51	49	73	69	52	47	57	56	57	52	58	52
19-10-17	67	68	58	60	64	60	51	54	51	48	71	69	49	51	56	58	55	56	57	57
20-10-17	69	65	60	56	64	60	53	51	50	48	72	68	50	50	57	55	56	54	58	55
21-10-17	69	65	60	58	65	57	52	49	50	50	72	68	50	48	56	54	56	50	57	53
22-10-17	68	65	59	58	63	63	51	48	51	51	71	69	48	47	55	54	55	51	56	52
23-10-17	68	66	62	59	67	64	54	48	49	49	73	69	55	47	57	55	58	51	60	53
24-10-17	68	66	62	59	67	63	55	48	49	49	73	69	57	47	57	55	58	50	61	53
25-10-17	67	65	62	59	67	62	54	48	52	49	73	69	55	48	57	55	58	51	60	53
26-10-17	67	65	60	59	66	60	54	48	51	47	73	69	48	49	56	54	57	51	59	53

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
27-10-17	67	65	63	60	67	58	54	53	53	53	73	69	55	52	56	54	59	52	61	55
28-10-17	67	65	61	60	66	58	53	48	53	53	73	69	58	46	56	55	58	51	60	54
29-10-17	67	65	61	61	64	57	52	47	53	53	72	70	50	44	55	54	57	51	59	54
30-10-17	68	65	63	60	67	57	54	48	53	53	74	69	56	60	57	55	59	50	60	54
31-10-17	69	66	62	60	67	59	54	49	53	53	74	69	53	46	57	57	60	50	60	55
01-11-17	68	65	62	60	67	58	54	49	53	53	74	70	55	45	56	53	59	52	61	53
02-11-17	68	64	62	60	67	58	55	49	53	53	73	69	55	45	56	53	59	51	61	54
03-11-17	68	65	63	60	67	57	54	49	53	53	74	69	55	46	56	54	59	51	61	56
04-11-17	67	65	61	60	65	57	51	48	53	53	73	69	49	44	56	54	56	51	60	54
05-11-17	67	64	62	62	64	57	51	48	53	53	72	70	48	46	56	54	56	51	58	53
06-11-17	67	64	65	61	67	57	54	47	53	53	73	69	55	46	57	55	59	52	61	53
07-11-17	67	65	62	61	67	57	54	46	53	53	74	69	54	45	57	54	59	48	62	54
08-11-17	67	64	62	61	67	56	54	45	53	52	74	69	53	46	57	54	58	50	60	53
09-11-17	68	65	62	61	66	56	53	48	53	52	73	69	50	46	57	55	56	51	57	53
10-11-17	68	65	62	61	67	57	54	48	53	52	74	69	49	46	57	55	56	51	57	55
11-11-17	67	65	69		66	59	52	47	53	52	73	69	51	47	56	55	56	51	57	53
12-11-17	67	65		66	64	58	52	47	53	52	72	69	50	47	56	55	57	51	56	52
13-11-17	67	65		65	67	57	53	47	53	52	74	69	55	45	57	54	58	51	61	53
14-11-17	67	65		65	67	58	52	47	53	52	73	69	55	46	57	52	59	53		
15-11-17	68	65		64	67	57	53	49	53	53	74	69	54	47	56	52	59	53	66	56
16-11-17	67	65		62	67	57	52	48	53	53	74	69	56	48	56	53	58	52	63	55
17-11-17	68	64	61	60	67	57	53	49	53	53	74	69	56	46	57	53	59	51	62	55
18-11-17	67	64	61	60	66	57	53	49	53	53	73	69	54	49	57	53	59	52	60	53

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
19-11-17	67	64	61	60	64	57	51	50	53	53	72	69	55	50	57	53	57	52	57	52
20-11-17	67	64	62	60	67	57	52	48	53	53	74	69	56	48	57	55	59	52	62	54
21-11-17	67	64	63	60	66	57	53	48	53	52	74	69	56	48	58	55	60	51	62	54
22-11-17	67	64	62	60	66	57	53	49	53	52	73	69	55	49	58	55	59	51	62	55
23-11-17	67	64	61	60	68	58	53	49	53	52	73	69	64	50	58	57	59	55	62	55
24-11-17	67	65	61	60	66	58	53	48	53	52	73	69	65	62	58	58	57	53	62	55
25-11-17	67	64	61	60	66	58	53	49	53	52	73	69	62	69	58	57	57	55	61	55
26-11-17	67	65	60	60	64	57	52	48	53	52	72	70	55	55	57	57	56	54	57	55
27-11-17	68	65	61	59	67	57	54	49	53	52	73	70	63	54	58	56	59	54	61	55
28-11-17	67	65	61	60	67	58	54	49	53	52	73	69	61	53	57	58	58	54	62	54
29-11-17	67	64	62	61	66	58	53	49	53	52	73	69	56	53	57	58	58	54	62	55
30-11-17	67	65	62	60	67	58	52	48	53	52	73	69	54	51	58	58	59	54	60	56
01-12-17	67	65	61	59	66	58	53	49	53	52	73	69	56	49	57	58	61	53	62	55
02-12-17	67	65	60	60	65	57	51	48	53	52	72	69	53	47	57	57	56	51	58	54
03-12-17	67	64	60	59	63	57	50	49	53	52	73	69	52	47	56	56	56	51	59	55
04-12-17	67	64	61	58	66	57	51	50	53	52	74	69	62	48	57	57	58	52	62	54
05-12-17	67	65	61	59	67	57	52	47	53	53	74	69	55	47	57	55	58	50	62	53
06-12-17	67	64	61	59	67	56	52	47	53	53	73	69	55	48	57	54	58	51	61	53
07-12-17	67	64	64	58	66	56	53	47	53	53	73	69	59	50	57	55	60	51	61	54
08-12-17	67	64	63	58	66	57	54	48	53	52	73	68	57	49	57	56	60	52	62	55
09-12-17	67	65	63	59	66	58	55	48	53	52	73	69	55	49	57	58	58	52	58	54
10-12-17	67	65	61	59	64	57	52	49	53	52	72	70	59	50	57	57	55	53	59	54
11-12-17	67	65	61	59	66	58	55	50	53	52	74	70	62	47	57	56	59	54	63	56

Table 3: Ambient Noise Monitoring Data of Delhi for the year 2017

Date	ANAND VIHAR (C)		CIVIL LINES (C)		CPCB (C)		DCE (S)		DILSHAD GARDEN (S)		ITO (C)		MANDIR MARG (S)		NSIT (S)		PUNJABI BAGH (R)		RK PURAM (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
12-12-17	67	65	61	58	67	57	56	48	53	53	74	69	60	46	57	53	59	51	62	55
13-12-17	67	65	60	56	66	56	53	46	53	52	74	69	60	45	57	54	58	49	62	51
14-12-17	67	64	60	56	67	56	54	45	53	52	74	69	60	47	57	53	59	50	62	51
15-12-17	67	64	60	56	67	56	62	48	52	52	74	69	62	49	58	54	59	51	62	54
16-12-17	67	64	59	56	65	56	56	48	53	52	73	69	59	50	58	54	61	55	59	54
17-12-17	66	64	60	57	64	57	56	49	53	52	72	69	59	50	57	54	61	54	60	54
18-12-17	67	63	60	58	67	56	56	49	53	52	73	69	57	51	58	55	60	53	61	54
19-12-17	67	64	60	57	67	56	55	50	53	52	73	69	57	49	58	55	59	51	61	54
20-12-17		64	60	56	67	56	53	48	53	52	74	69	58	48	57	55	58	53	61	54
21-12-17	67	63	60	57	66	56	52	47	53	52	74	69	59	47	58	55	60	55	61	53
22-12-17	67	64	62	58	67	57	54	49	53	52	74	69	62	50	58	56	61	53	61	55
23-12-17	66	63	60	59	66	57	52	48	53	52	73	69	66	49	58	56	60	53	59	55
24-12-17	66	64	59	58	64	56	51	46	53	52	72	70	55	48	57	57	57	51	58	54
25-12-17	66	63	60	58	64	56	50	47	53	52	72	69	63	47	58	56	58	51	58	54
26-12-17	66	63	61	58	67	56	53	47	53	52	74	69	60	49	58	56	59	52	58	54
27-12-17	67	63	61	58	66	56	52	47	53	52	73	69	62	48	58	56	58	52	58	53
28-12-17	67	64	61	58	66	57	51	47	53	52	73	69	58	48	58	57	58	53	59	54
29-12-17	66	64	61	58	66	57	51	48	53	52	74	69	59	48	58	57	59	53	59	54
30-12-17	67	64	60	59	66	56	51	48	53	52	73	69	58	48	58	56	58	51	60	53
31-12-17	67	63	60	63	64	56	48	45	53	52	72	70	57	47	56	55	56	51	58	55

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-01-17	72	68	55	50	71	63	62	57	58	58	71	66	68	66	73	73	58	53	54	51
02-01-17	74	65	55	50	75	61	64	58	60	54	71	64	69	64	73	73	59	52	53	49
03-01-17	74	66	58	51	71	61	66	57	61	54	72	66	69	65	74	72	60	52	54	49
04-01-17	74	65	56	51	68	59	66	58	61	54	71	66	68	66	73	73	60	53	53	49
05-01-17	74	66	58	51	71	60	66	59	61	54	71	65	69	66	73	72	60	53	53	50
06-01-17	74	66	55	51	67	57	66	59	61	55	72	65	68	66	72	72	60	52	56	50
07-01-17	75	67	55	51	71	60	65	57	61	55	72	65	68	65	72	71	60	52	53	49
08-01-17	74	66	57	53	75	71	64	57	59	54	73	65	69	65	72	71	59	52	55	48
09-01-17	74	66	57	56	75	75	64	56	61	54	72	64	69	65	72	71	61	52	53	48
10-01-17	74	66	56	50	75	75	66	58	60	54	72	65	69	66	72	71	61	53	53	47
11-01-17	74	66	57	51	77	76	66	59	61	54	72	65	69	66	72	71	60	54	53	48
12-01-17	75	67	56	51	76	73	66	59	61	54	71	65	69	66	72	72	60	53	55	49
13-01-17	74	67	58	52	75	69	65	58	60	55	71	64	68	66	72	71	59	52	57	50
14-01-17	73	66	59	51	76	71	61	56	59	54	69	63	67	63	72	71	59	52	56	49
15-01-17	72	65	59	49	74	69	61	55	59	53	71	63	67	62	72	72	58	50	56	48
16-01-17	74	66	57	49	78	72	64	56	60	53	71	64	68	64	72	71	60	51	53	49
17-01-17	74	66	59	52	78	77	65	57	61	54	71	64	69	66	75	72	60	52	55	49
18-01-17	74	66	62	52	78	76	65	58	62	55	72	65	70	65	72	71	62	58	56	48
19-01-17	75	66	59	50	81	76	64	57	62	55	72	65	69	65	73	71	61	52	55	48
20-01-17	74	66	58	51	76	77	64	58	61	56	72	65	69	65	75	72	61	52	56	49
21-01-17	75	67	62	51	74	73	65	60	62	56	71	65	70	66	72	71	61	52	56	50
22-01-17	73	67	56	50	75	73	64	60	59	55	71	65	68	65	72	71	59	51	55	50
23-01-17	74	67	60	50	78	76	65	60	61	54	72	65	70	65	72	71	61	52	55	49
24-01-17	74	67	61	51	74	77	66	61	62	55	71	64	69	66	72	71	61	52	56	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-01-17	75	66	58	51	77	74	66	59	62	55	72	65	69	67	72	71	61	52	55	50
26-01-17	74	66	59	53	74	71	63	58	61	55	70	65	69	66	73	72	60	52	56	47
27-01-17	74	66	55	51	75	74	66	58	61	55	72	65	69	65	73	73	60	52	54	48
28-01-17	75	68	58	51	77	76	66	58	60	56	72	65	70	66	72	71	61	52	54	49
29-01-17	73	67	54	53	75	74	65	60	58	55	71	65	68	66	72	71	59	53	53	48
30-01-17	74	66	57	51	75	74	64	59	61	54	71	62	69	66	72	72	60	52	52	49
31-01-17	74	66	55	50	76	72	66	60	61	55	71	66	68	66	73	73	62	57	53	50
01-02-17	74	66	60	52	75	70	66	59	61	55	72	69	69	66	73	73	61	52	54	49
02-02-17	74	67	60	53	73	69	67	59	62	55	72	65	70	66	73	73	60	53	55	48
03-02-17	74	67	58	52	76	68	67	61	61	55	71	65	69	67	71	72	63	57	55	49
04-02-17	75	68	58	51	73	73	66	61	61	56	71	66	70	66	73	73	63	55	55	49
05-02-17	74	68	53	50	71	67	66	60	58	55	71	66	68	66	73	72	59	51	53	48
06-02-17	74	66	57	49	73	69	65	58	60	54	71	65	69	66	73	73	60	52	53	48
07-02-17	74	66	57	51	72	70	67	59	60	54	71	66	69	66	72	72	60	52	53	48
08-02-17	74	67	58	51	73	66	66	59	61	55	71	66	69	66	72	72	61	53	54	50
09-02-17	74	66	57	51	73	69	66	60	61	56	71	67	69	66	73	73	60	52	54	50
10-02-17	74	67	62	53	75	72	67	58	62	56	71	66	69	66	73	73	63	56	56	48
11-02-17	74	69	64	61	75	79	67	59	62	57	71	66	70	67	72	71	61	53	57	49
12-02-17	74	70	63	57	71	71	65	59	60	56	72	66	70	67	72	71	61	53	56	49
13-02-17	75	67	65	52	71	73	66	59	63	55	71	65	70	66	72	71	64	59	56	48
14-02-17	75	68	61	50	75	72	67	61	62	55	72	65	70	66	73	72	61	52	61	49
15-02-17	75	67	60	50	74	73	67	61	61	55	72	65	70	67	73	73	62	57	55	49
16-02-17	74	67	60	51	74	73	66	59	61	54	72	66	70	66	72	73	61	60	54	49
17-02-17	74	66	64	51	73	76	67	60	62	55	72	65	71	66	73	72	62	57	56	52

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
18-02-17	74	67	64	51	73	78	67	60	62	55	72	65	70	67	73	73	62	54	55	51
19-02-17	72	66	63	51	72	75	66	61	59	55	71	66	69	66	73	73	62	55	54	52
20-02-17	73	66	58	50	73	73	65	61	59	54	71	65	68	66	72	72	60	55	52	49
21-02-17	73	66	58	50	66	72	67	61	60	54	71	66	68	66	72	72	62	57	53	50
22-02-17	73	66	57	51	71	70	67	61	60	55	71	66	69	66	73	73	58	51	52	49
23-02-17	73	66	59	51	71	68	67	61	60	55	71	66	69	67	73	73	62	57	53	50
24-02-17	72	66	59	52	65	65	66	60	60	56	70	64	69	66	73	73	60	52	55	51
25-02-17	73	66	61	51	69	71	65	59	59	55	70	64	69	66	73	73	61	53	53	49
26-02-17	72	65	62	49	69	66	65	59	60	55	70	65	69	65	73	73	60	53	55	50
27-02-17	74	66	60	50	60	64	65	60	61	55	71	65	69	66	73	72	62	58	54	49
28-02-17	74	66	64	52	64	63	67	62	61	55	71	65	69	66	73	73	61	53	55	50
01-03-17	74	66	61	50	64	62	67	61	62	55	71	65	70	66	72	72	61	53	56	50
02-03-17	74	66	61	52	62	64	66	61	61	55	71	65	69	67	73	72	61	53	54	49
03-03-17	73	66	61	57	66	56	67	60	61	55	71	65	69	66	73	73	61	53	54	49
04-03-17	74	67	55	55	61	61	67	60	60	55	71	65	69	66	73	73	60	54	53	49
05-03-17	72	66	57	55	71	71	65	60	59	55	71	65	68	66	73	73	59	51	58	50
06-03-17	74	66	58	55	73	70	65	59	61	54	72	65	69	66	73	73	61	53	55	49
07-03-17	74	67	61	56	74	63	66	59	62	55	72	65	69	66	73	73	62	57	57	49
08-03-17	74	66	58	52	74	67	67	60	60	54	72	65	69	67	73	73	61	53	54	48
09-03-17	74	67	55	52	76	70	67	62	61	55	72	65	69	66	72	72	60	53	54	48
10-03-17	74	67	61	52	76	71	68	61	60	55	71	66	69	66	72	72	62	53	58	48
11-03-17	74	67	64	50	74	78	67	62	60	54	71	64	70	68	72	72	63	58	54	49
12-03-17	71	66	58	52	74	76	65	60	58	54	72	68	68	66	72	72	59	54	53	49
13-03-17	73	65	57	51	72	75	64	60	59	53	71	68	69	65	72	72	60	53	54	48

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
14-03-17	74	67	59	55	72	76	67	61	62	54	72	64	69	66	72	72	62	53	57	48
15-03-17	75	74	61	56	68	70	67	60	62	55	72	68	69	67	72	72	62	54	59	50
16-03-17	75	74	56	53	68	71	67	62	60	55	72	65	69	67	73	72	60	54	57	48
17-03-17	75	72	60	53	74	72	67	61	60	54	72	65	69	67	73	73	61	53	55	49
18-03-17	75	73	61	52	75	74	67	61	60	55	71	65	69	66	73	73	61	53	54	49
19-03-17	73	68	60	51	74	75	65	60	58	55	71	65	69	65	73	73	59	52	54	50
20-03-17	74	71	61	50	74	75	65	60	60	53	71	64	69	66	73	73	61	54	53	49
21-03-17	74	66	60	50	73	75	67	61	61	55	71	65	69	67	72	72	60	52	63	50
22-03-17	74	66	62	51	74	75	67	60	61	56	71	65	69	66	72	72	60	53	56	50
23-03-17	74	66	59	51	72	74	67	60	61	55	71	65	69	66	72	72	63	52	58	50
24-03-17	74	66	57	51	74	76	67	60	60	55	71	65	69	67	73	73	61	53	60	50
25-03-17	74	69	58	52	75	77	67	61	60	56	71	66	69	66	73	73	60	53	55	50
26-03-17	72	66	58	51	73	76	65	59	59	55	70	66	68	65	73	73	58	52	55	50
27-03-17	74	66	59	53	73	77	65	59	61	54	71	64	69	65	73	73	60	52	55	49
28-03-17	74	66	58	52	75	75	67	60	61	55	71	65	68	66	73	73	60	52	56	49
29-03-17	72	66	56	52	73	74	62	59	59	57	69	64	66	64	73	73	58	52	53	49
30-03-17	74	66	58	52	71	74	67	60	60	55	71	64	68	65	73	73	60	52	53	49
31-03-17	74	67	61	53	72	73	67	61	61	55	71	64	68	66	73	73	60	53	57	49
01-04-17	74	68	58	54	71	75	67	61	59	55	71	65	69	67	74	73	60	53	53	48
02-04-17	72	66	58	53	72	76	65	59	58	54	70	65	68	65	74	73	58	52	55	49
03-04-17	74	67	59	54	72	75	66	58	60	53		75	69	66	74	73	60	53	56	50
04-04-17	74	66	59	53	68	74	68	60	62	55	72	65	69	67	74	73	61	53	55	49
05-04-17	73	66	59	50	69	70	66	60	60	54	71	65	69	65	73	72	61	57	59	48
06-04-17	74	66	60	53	72	74	66	61	61	55	71	64	69	66	73	72	61	53	53	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
07-04-17	75	67	57	55	72	72	67	60	61	55	71	65	70	66	73	72	61	53	56	49
08-04-17	74	67	59	55	73	70	67	61	60	56	71	66	69	66	75	73	61	60	54	50
09-04-17	73	67	54	51	74	63	65	59	58	55	71	67	68	65	74	73	58	58	54	49
10-04-17	74	67	59	49	74	67	65	59	60	54	71	65	69	66	74	73	59	58	54	49
11-04-17	73	67	65	51	77	72	67	60	61	55	70	66	69	66	74	73	62	59	56	51
12-04-17	73	67	61	51	76	79	66	61	60	56	70	66	68	66	74	73	60	61	55	51
13-04-17	73	67	58	49	71	76	66	60	60	56	71	66	68	66	74	73	60	58	59	50
14-04-17	73	67	54	51	76		66	60	59	55	71	65	68	66	74	73	58	60	55	50
15-04-17	74	67	57	50	72		66	60	60	56	71	66	68	66	74	73	60	60	56	50
16-04-17	72	67	62	49	73	71	65	60	58	55	70	66	69	67	74	73	61	61	54	51
17-04-17	73	67	61	49	65	61	65	60	60	53	70	65	69	65	74	73	61	60	53	51
18-04-17	74	67	61	50	65	65	66	60	60	55	71	65	69	66	74	73	60	59	54	50
19-04-17	74	67	60	52	78		66	60	60	56	71	66	69	66	74	73	62	59	54	51
20-04-17	73	67	60	49	73	77	65	60	59	55	78	75	68	66	74	73	63	53	57	52
21-04-17	73	67	60	50	71	71	66	60	60	56	70	66	68	66	74	73	62	53	58	51
22-04-17	74	68	62	50	67	65	66	61	60	57	71	66	69	67	74	73	64	59	57	51
23-04-17	72	67	63	54	64	59	65	60	58	57	70	66	70	68	74	73	62	60	55	50
24-04-17	73	67	64	52	65	61	65	59	60	55	71	65	70	67	74	73	63	59	57	54
25-04-17	73	67	62	51	64	65	66	59	61	57	71	66	70	66	74	73	62	60	59	53
26-04-17	73	67	59	50	60	62	66	60	60	56	79	75	69	66	74	73	59	59	58	51
27-04-17	73	66	60	56	62	64	66	60	61	56	71	66	68	66	74	73	59	59	58	51
28-04-17	73	68	59	63	71	76	66	62	60	57	71	66	69	69	74	73	60	66	56	51
29-04-17	74	68	58	58	74	74	66	60	60	57	71	66	69		74	74	61	55	60	52
30-04-17	72	68	60	63	77	80	65	60	59	57	70	66	69	68	74	73	65	57	56	52

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-05-17	73	67	57	62	72	79	63	60	59	55	70	65	68	67	74	73	59	55	55	51
02-05-17	74	67	58	59	74	77	66	58	60	55	71	65	68	66	74	73	60	52	56	50
03-05-17	74	67	59	57	73	79	66	58	61	56	71	65	69	66	74	73	60	53	56	50
04-05-17	74	68	58	55	74	75	66	58	60	56	71	66	69	66	74	73	59	52	55	50
05-05-17	73	67	55	55	71	71	65	58	60	56	71	66	69	66	74	73	59	52	56	51
06-05-17	74	68	53	56	68	70	65	58	60	56	79	75	69	66	74	73	60	53	55	51
07-05-17	72	67	64	55	70	70	64	58	59	57	79	76	70	72	74	73	59	54	56	50
08-05-17	74	67	63	55	72	76	65	59	60	55	77	75	69	72	74	73	60	54	56	49
09-05-17	74	68	61	54	64	69	66	60	61	57	79	75	70	72	74	73	59	55	56	52
10-05-17	74	69	58	58	78	79	66	60	62	59	77	75	69	69	74	72	60	61	60	55
11-05-17	74	67	57	52	79	79	66	59	61	56	71	66	69	66	74	73	59	53	57	54
12-05-17	73	68	59	50	73	75	66	58	61	56	71	66	68	67	74	73	60	52	58	52
13-05-17	74	67	55	56	73	71	66	57	60	56	71	66	69	66	74	73	60	53	58	50
14-05-17	72	67	53	58	74	74	64	58	57	56	70	66	68	67	75	73	58	55	57	51
15-05-17	74	68	62	59	79	78	66	62	61	56	71	66	70	70	74	73	63	61	58	51
16-05-17	72	66	62	56	77	79	67	60	61	55	71	66	71	67	74	73	63	56	58	50
17-05-17	74	67	64	55	71	72	69	60	62	54	71	65		68	74	73	67	55	59	48
18-05-17	74	66	63	55	68	68	67	60	61	55	71	66	71	67	74	73	63	55	58	50
19-05-17	73	66	61	54	69	59	66	58	60	55	71	66	70	69	71	73	61	58	60	50
20-05-17	74	66	61	57	65	60	66	58	60	55	71	66	71	67	75	74	63	54	59	49
21-05-17	75	67	63	62	64	65	65	60	58	56	70	66	71	67	74	73	63	57	58	53
22-05-17	74	67	61	57	65	65	65	59	60	54	71	66	70	67	74	73	61	55	56	49
23-05-17	73	67	63	56	66	61	67	58	61	54	71	66	70	66	74	73	62	52	57	49
24-05-17	74	67	59	54	62	63	67	60	59	54	71	66	69	67	74	73	59	53	56	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-05-17	73	67	59	56	64	70	67	59	60	54	71	65	69	67	74	73	59	53	57	49
26-05-17	73	67	61	54	68	71	67	60	61	55	72	66	70	67	74	73	60	53	57	49
27-05-17	73	67	62	63	71	72	67	60	60	57	73	68	71	69	74	73	63	59	55	54
28-05-17	73	67	58	63	68	68	65	59	58	55	72	67	70	68	74	73	60	54	56	52
29-05-17	74	67	64	60	69	59	68	59	62	54	73	65	73	69	74	73	64	58	55	51
30-05-17	72	67	68	66	72	72	69	67	62	57	71	67	74	72	74	73	66	62	57	53
31-05-17	73	67	61	63	75	75	66	65	60	56	71	67	69	69	74	73	62	63	55	52
01-06-17	74	66	54	57	64	62	66	61	60	55	71	66	69	68	74	73	60	58	55	50
02-06-17	74	66	59	55	62	64	66	58	60	55	76	66	69	66	74	73	60	53	57	51
03-06-17	74	68	65	58	66	56	66	58	60	56	71	66	69	67	74	73	61	53	55	52
04-06-17	73	69	67	64	61	61	65	61	58	57	71	67	69	71	74	73	59	60	55	53
05-06-17	74	69	60	61	71	71	66	62	61	54	71	65	72	68	74	73	64	57	55	52
06-06-17	75	70	62	59	73	70	67	62	62	57	72	66	72	69	74	73	64	60	55	52
07-06-17	75	70	57	57	74	63	68	64	62	56	72	66	74	70	73	73	65	61	55	50
08-06-17	75	71	52	59	74	67	67	64	61	59	72	68	72	70	73	73	63	62	55	54
09-06-17	75	69	59	58	71	61	67	61	62	55	72	66	72	68	73	73	63	57	57	51
10-06-17	75	70	59	58	68	66	67	62	62	56	72	66	71	68	73	73	62	57	57	53
11-06-17	74	70	58	49	60	64	65	61	59	56	72	67	69	67	73	73	60	59	56	52
12-06-17	75	70	56	50	76	71	66	63	62	59	72	66	70	68	73	73	63	61	57	52
13-06-17	76	69	55	50	70	74	66	58	62	59	73	67	70	67	74	72	62	55	57	53
14-06-17	75	69	53	56	57	65	67	59	61	61	72	64	70	66	73	73	61	53	57	54
15-06-17	75	70	55	58	67	60	67	59	61	61	77		70	67	73	73	62	56	58	55
16-06-17	75	70	54	57	71	76	66	60	60	55	72	65	70	68	73	73	61	56	57	53
17-06-17	75	71	56	55	75	73	67	60	60	55	72	65	70	67	73	73	62	55	58	52

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
18-06-17	74	71	56	54	75	74	65	59	60	55	72	67	71	66	74	73	63	53	56	51
19-06-17	76	71	54	51	74	75	66	60	61	55	73	67	72	67	73	73	62	54	56	50
20-06-17	75	72	67	64	74	75	67	63	61	57	72	67	70	68	73	73	62	60	55	51
21-06-17	75	72	64	60	64	54	67	63	62	57	72	67	70	68	73	73	63	60	56	52
22-06-17	75	71	62	61	71	60	68	63	62	62	72	67	72	68	74	73	64	59	55	51
23-06-17	76	72	64	61	66	69	68	60	62	55	73	67	72	67	74	73	64	56	55	50
24-06-17	76	73	64	60	52	58	68	62	62	63	72	66	71	67	74	73	63	58	56	51
25-06-17	77	75	67	61	50	55	67	62	60	62	72	67	70	68	73	73	62	61	57	52
26-06-17	72	73	61	53	48	57	66	62	60	59	71	66	70	67	73	73	62	60	57	52
27-06-17	75	69	63	59	51	50	69	64	62	56	72	66	72	68	73	73	65	60	55	53
28-06-17	75	69	61	56	59	58	68	62	62	62	73	66	70	68	73	73	63	58	56	51
29-06-17	76	69	64	58	67	63	68	65	62	62	72	66	70	68	73	72	64	62	57	52
30-06-17	77	71	63	55	56	54	70	65	62	62	72	66	71	69	74	73	66	64	58	54
01-07-17	76	71	62	62	60	63	68	66	61	62	72	67	70	69	73	73	65	63	55	51
02-07-17	74	70	59	62	53	63	66	66	60	57	72	67	70	69	74	73	61	64	56	50
03-07-17	76	69	63	54	63	67	67	64	61	55	72	66	71	68	73	73	64	60	55	49
04-07-17	76	69	65	57	68	64	69	63	62	56	72	66	74	68	73	73	65	60	56	49
05-07-17	76	69	62	58	66	73	68	64	61	55	72	66	70	68	73	73	63	61	58	49
06-07-17	76	69	61	56	66	71	67	60	62	55	73	65	71	68	74	73	64	57	56	50
07-07-17	75	68	61	54	68	62	67	60	62	57	73	66	72	68	74	74	64	56	57	50
08-07-17	75	69	59	50	72	72	67	60	61	56	72	67	72	67	74	73	64	57	54	50
09-07-17	74	68	57	51	66	64	66	59	60	55	72	67	71	67	74	74	63	55	55	50
10-07-17	75	68	57	50	71	66	65	59	61	54	72	66	72	68	74	74	63	56	54	50
11-07-17	75	68	58	50	67	70	67	60	61	54	72	66	72	68	74	74	65	56	55	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
12-07-17	75	69	62	56	71	69	68	61	62	55	73	65	73	68	74	74	65	58	54	49
13-07-17	75	69	60	55	64	61	67	62	62	56	72	66	72	69	74	73	63	58	55	50
14-07-17	75	69	59	55	66	57	67	62	61	56	72	68	71	68	73	72	63	59	56	52
15-07-17	76	70	59	59	64	66	67	63	61	57	73	67	71	69	73	73	64	61	55	52
16-07-17	73	69	57	55	64	54	65	61	58	55	72	70	70	68	73	72	61	58	55	51
17-07-17	75	68	61	55	54	42	67	62	63	55	73	66	72	68	73	72	63	56	57	51
18-07-17	76	69	59	61	65	65	67	64	62	58	73	67	70	68	72	72	62	59	54	52
19-07-17	76	69	63	62	78		68	65	63	56	73	66	71	69	74	72	64	61	54	53
20-07-17	76	69	63	61	54	63	67	63	62	56	73	67	70	68	73	73	65	62	54	52
21-07-17	77	69	64	60	60	63	69	64	63	56	72	66	71	68	73	73	66	63	57	52
22-07-17	77	70	66	63	69	71	70	66	63	58	72	66	73	70	73	73	67	64	56	51
23-07-17	75	70	63	59	66	69	68	64	60	57	72	66	70	69	73	73	65	63	55	51
24-07-17	77	70	63	58	70	67	68	64	62	56	72	67	72	69	73	73	66	63	55	51
25-07-17	77	69	65	58	69	66	69	64	63	57	72	66	72	70	73	73	65	62	56	51
26-07-17	76	69	65	60	74	72	69	64	62	57	72	66	72	69	73	73	64	62	56	50
27-07-17	76	69	61	56	65	60	70	65	62	56	72	66	71	68	73	73	65	61	54	50
28-07-17	76	69	62	54	55	65	68	61	62	55	72	66	71	68	74	73	64	59	55	50
29-07-17	75	69	56	51	61	65	67	59	60	55	73	66	71	68	73	73	61	55	53	50
30-07-17	74	68	58	53	71	71	66	61	60	56	72	66	72	68	73	73	63	56	54	50
31-07-17	75	68	57	54	67	72	66	60	61	54	72	66	72	69	74	73	62	55	52	50
01-08-17	75	68	57	53	65	63	65	58	61	54	72	66	70	69	74	73	63	56	53	51
02-08-17	75	68	59	55	72	71	67	61	61	55	72	66	72	69	73	73	63	59	53	50
03-08-17	76	69	60	55	65	70	67	62	61	55	72	66	71	68	73	73	63	59	54	50
04-08-17	75	69	59	51	67	66	66	60	60	55	72	66	71	68	73	73	62	58	56	51

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
05-08-17	76	68	62	52	70	73	67	60	62	56	73	66	74	68	73	73	65	55	54	50
06-08-17	74	68	60	50	72	73	65	58	60	55	72	67	72	67	74	73	64	53	54	50
07-08-17	75	67	56	49	68	73	66	57	60	53	72	66	71	67	73	73	60	53	52	51
08-08-17	75	67	59	50	72	74	66	58	61	54	73	66	71	66	74	73	63	52	54	50
09-08-17	76	69	53	52	71	60	66	57	61	56	73	67	70	66	72	72	61	55	55	53
10-08-17	75	67	56	50	68	66	67	57	61	54	73	66	71	66	73	73	61	54	53	51
11-08-17	75	68	56	51	60	64	66	58	62	55	73	67	71	67	73	73	62	53	55	52
12-08-17	76	69	60	53	76	71	67	60	62	56	73	69	72	69	73	72	63	55	55	52
13-08-17	74	68	54	50	70	74	65	56	59	54	72	66	70	66	73	72	59	52	55	53
14-08-17	77	69	55	52	57	64	66	58	60	54	72	66	71	67	73	73	60	54	56	53
15-08-17	77	69	56	51	67	60	62	56	60	54	71	66	69	66	73	72	62	52	54	52
16-08-17	75	68	59	50	71	76	67	58	62	53	73	66	71	66	73	73	63	54	55	54
17-08-17	75	68	59	50	43	54	67	58	62	54	73	66	71	66	73	73	64	53	64	55
18-08-17	75	68	57	51	46	68	67	59	61	56	72	66	71	67	73	73	63	55	61	56
19-08-17	76	69	60	57	66	69	68	62	61	55	73	67	71	68	74	72	62	56	62	55
20-08-17	75	69	63	60	48	69	67	63	60	56	72	66	70	69	73	72	64	60	59	56
21-08-17	75	68	58	52	40	66	66	59	61	55	73	65	70	67	73	72	62	56	52	54
22-08-17	75	67	58	51	46	63	66	58	61	54	72	66	71	66	73	73	61	53	53	53
23-08-17	75	67	60	51	53	66	67	58	62	55	72	66	72	67	74	73	65	54	53	52
24-08-17	75	68	59	50	45	68	67	57	63	55	73	67	72	67	73	73	64	54	56	53
25-08-17	73	69	55	57	65	65	63	62	58	58	70	67	70	69	73	73	61	60	63	60
26-08-17	75	69	59	57	59	73	67	64	62	57	73	67	71	71	73	72	63	58	55	57
27-08-17	74	68	54	56	45	68	65	62	59	55	72	66	71	68	73	72	61	57	55	55
28-08-17	75	69	53	56	58	68	66	62	60	54	73	65	70	68	73	72	61	58	65	54

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
29-08-17	76	69	58	57	48	67	67	62	62	56	73	66	70	67	73	72	62	57	60	56
30-08-17	75	69	58	49	56	54	68	59	61	55	73	66	70	67	73	72	62	54	54	54
31-08-17	75	69	58	51	42	65	67	60	61	56	73	67	70	67	73	73	61	56	53	53
01-09-17	75	69	55	51	63	67	66	58	61	55	72	67	70	67	74	73	62	54	55	51
02-09-17	73	69	55	51	51	66	65	58	59	55	72	67	70	67	74	73	60	52	53	52
03-09-17	73	70	53	51	47	67	64	58	59	55	71	66	69	65	74	73	60	53	53	53
04-09-17	75	69	58	51	54	66	65	57	61	54	72	65	70	66	74	73	62	52	53	52
05-09-17	75	73	59	50	52	65	65	57	60	54	71	65	70	65	74	73	62	52	54	52
06-09-17	75	72	55	49	73	66	66	58	60	53	73	66	70	66	73	73	60	53	60	54
07-09-17	75	67	57	49	53	67	66	57	69	57	72	66	70	66	73	72	60	52	56	56
08-09-17	75	67	57	49	56	67	65	58	61	55	72	66	70	66	74	73	60	53	57	53
09-09-17	75	68	52	50	53	68	66	56	60	56	72	66	70	67	74	73	61	53	57	54
10-09-17	73	67	58	49	58	67	63	57	60	56	72	67	70	66	73	73	59	53	58	50
11-09-17	75	67	62	52	56	63	65	57	63	55	72	66	71	67	73	73	61	52	58	51
12-09-17	75	67	54	51	59	65	65	57	61	55	72	66	69	66	74	73	60	54	55	50
13-09-17	74	67	55	50	57	67	66	57	60	54	72	66	69	66	74	73	61	53	54	49
14-09-17	75	69	53	55	55	55	66	60	61	59	73	68	69	67	73	72	60	56	54	53
15-09-17	74	67	57	51	69	56	67	58	61	57	73	67	70	66	73	72	61	55	56	50
16-09-17	75	68	54	50	71	76	67	59	61	56	73	67	70	66	73	72	61	53	55	50
17-09-17	74	67	53	49	43	49	65	59	58	55	72	67	69	65	74	74	59	54	56	50
18-09-17	76	69	60	55	46	61	67	63	62	56	73	66	71	68	74	73	63	61	55	50
19-09-17	76	69	63	55	55	55	68	64	62	57	72	66	70	67	73	72	65	63	56	50
20-09-17	74	69	56	53	63	52	67	63	61	56	72	66	69	68	75	72	63	63	54	50
21-09-17	75	69	59	54	79	59	69	63	65	59	73	65	72	68	73	72	63	60	56	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
22-09-17	75	68	56	49	75	64	67	59		66	72	66	71	67	73	72	60	55	57	48
23-09-17	75	67	59	49	70	44	66	59		66	73	66	71	67	74	72	60	53	55	49
24-09-17	74	67	58	50	51	50	64	57		67	72	67	71	66	74	73	61	51	53	49
25-09-17	75	66	56	50	77	62	66	58		65	73	65	71	67	60	72	60	54	56	49
26-09-17	75	67	58	50	82	79	70	61	55	62	72	66	71	66	47	62	61	52	55	50
27-09-17	75	67	55	50	81	69	81	72	56	61	73	67	70	67	46	54	61	53	57	50
28-09-17	74	67	55	49	79	69	64	50	55	62	73	66	70	67			60	52	57	50
29-09-17	75	67	58	50	77	70	66	60	60	57	73	65	71	66		44	60	52	57	50
30-09-17	73	67	53	50	73	71	65	60	59	57	70	64	70	65		41	57	52	56	51
01-10-17	71	68	53	50	75	70	63	60	59	55	71	64	68	64			57	50	56	50
02-10-17	74	70	60	50	80	71	66	58	60	55	70	64	70	65		40	61	51	57	51
03-10-17	74	67	55	50	77	69	66	58	61	56	72	65	71	66		43	60	51	54	53
04-10-17	75	67	56	50	76	69	63	66	61	56	73	66	70	66			60	51	54	52
05-10-17	75	66	55	50	76	68		67	61	55	72	65	70	66	41	40	60	51	55	51
06-10-17	75	67	56	50	80	70		64	69	57	73	66	70	66		40	60	52	55	50
07-10-17	75	67	54	49	77	68		61	62	57	73	67	70	66		41	60	52	56	51
08-10-17	74	66	52	50	75	68	78	60	59	57	72	67	69	66		41	59	50	55	51
09-10-17	75	66	54	53	80	70	80	61	62	58	72	66	70	67	41	42	60	54	53	51
10-10-17	75	67	54	50	78	69	65	59	61	57	73	66	70	66	42	44	60	52	53	50
11-10-17	75	67	54	50	79	70	67	60	61	56	73	67	69	66	41	40	60	52	53	50
12-10-17	75	67	54	50	78	67	77	68	62	58	72	67	69	66	57	51	61	52	53	49
13-10-17	75	67	55	50	79	69	79	61	62	59	74	67	70	66	60	53	60	53	55	50
14-10-17	75	67	54	50	75	67	71	63	61	58	75	67	70	66	60	52	60	52	52	48
15-10-17	74	67	53	50	74	69	67		60	58	74	67	70	66	59	51	59	51	53	48

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
16-10-17	75	67	58	51	78	67	70		62	57	73	66	71	66	61	52	61	52	56	48
17-10-17	75	67	58	52	79	67	70		61	57	72	67	70	66	62	53	62	53	56	49
18-10-17	75	68	58	52	80	67	69		62	59	72	68	70	67	62	55	62	55	54	50
19-10-17	74	70	57	54	81	70	74	69	60	62	72	70	70	68	74	65	64	59	56	53
20-10-17	74	68	53	51	80	67	82	80	59	58	71	67	70	67	65	66	61	55	56	53
21-10-17	75	67	52	49	80	66	81	81	60	57	72	67	70	67	58	62	60	52	54	49
22-10-17	73	68	51	47	78	68	81	78	59	56	71	67	70	66	57	61	60	53	53	47
23-10-17	75	66	57	48	79	65	82	75	61	57	72	65	72	68	61	64	61	51	53	49
24-10-17	75	67	58	51	77	65	82	76	62	55	72	72	71	67	77	71	60	52	54	49
25-10-17	75	66	57	51	79	68	84	80	62	56	71	71	71	67			60	52	55	50
26-10-17	75	66	56	50	77	68	85	83	62	56	72	70	71	67	65	71	60	53	55	50
27-10-17	75	67	54	51	79	66	81	80	62	56	71	65	71	67	62	66	60	52	56	50
28-10-17	75	67	55	50	77	68	79	80	61	56	71	65	71	67	59	64	60	52	54	49
29-10-17	73	67	58	50	78	66	76	78	61	56	72	66	71	66	60	68	59	51	57	50
30-10-17	75	66	64	50		67	69	75	63	55	71	65	72	68	61	70	62	52	58	50
31-10-17	74	66	59	52	79	66	72	75	62	56	71	69	70	67	64	73	60	53	56	50
01-11-17	74	66	58	52	79	67	70	71	62	56	71	67	71	67	61	73	60	52	56	49
02-11-17	74	66	62	52		65	65	68	63	56	71	65	71	66	61	74	61	52	56	49
03-11-17	74	67	62	51		64	66	58	60	56	71	66	70	67	60	73	61	54	58	49
04-11-17	75	67	60	52	78	65	65	61	58	57	71	67	71	68	61	72	60	53	57	51
05-11-17	74	67	60	50	79	66	66	62	61	54	72	66	70	67	60	66	60	52	56	50
06-11-17	75	66	57	51	76	65	67	62	62	57	71	64	71	68	62	68	60	52	54	49
07-11-17	74	66	54	51	76	67	68	64	62	56	71	66	70	67	63	70	60	52	53	50
08-11-17	75	69	57	51	77	66	67	64	61	59	71	66	71	67	65	75	59	53	53	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
09-11-17	74	69	57	52	78	67	67	61	62	55	71	66	70	66	61	71	60	53	53	49
10-11-17	74	66	59	51		66	67	62	62	56	71	65	70	67	62	72	60	53	55	49
11-11-17	75	67	61	51		66	65	61	59	56	71	66	71	67	62	74	61	53	55	49
12-11-17	74	66	55	50	76	68	66	63	62	59	72	67	70	67	60	66	59	54	54	49
13-11-17	75	66	57	50	78	68	66	58	62	59	71	65	71	68	62	72	60	53	52	48
14-11-17	75	66	55	50	76	66	67	59	61	61	71	66	70	67	60	70	60	53	55	49
15-11-17	75	66	63	51		68	67	59	61	61	71	66	71	67	62	68	63	56	56	48
16-11-17	75	67	63	54	81	67	66	60	60	55	71	65	72	68	60	67	63	57	55	48
17-11-17	75	67	58	52	80	64	67	60	60	55	71	65	70	66	58	73	61	53	56	49
18-11-17	75	68	54	50	74	63	65	59	60	55	72	65	71	67			59	52	54	49
19-11-17	74	67	54	51	64	59	75	69	59	56	72	65	70	66			58	52	54	48
20-11-17	75	67	56	51	67	59	69	64	62	54	72	65	71	66			60	52	54	48
21-11-17	75	67	56	51	68	60	79	74	62	56	72	65	71	66			59	52	57	49
22-11-17	75	67	53	49	68	59		72	61	55	71	66	70	66	69	64	60	53	55	50
23-11-17	74	67	53	51	69	60			61	56	71	65	70	68	65	65	60	53	52	49
24-11-17	74	67	54	51	69	60			61	56	71	65	70	67	59	63	59	52	54	50
25-11-17	75	68	60	54	72	59			61	57	71	65	71	68	73	65	60	52	55	49
26-11-17	73	67	54	51	63	58			59	56	71	65	69	67	77	71	58	51	54	49
27-11-17	75	67	54	51	63	56	73	70	60	55	71	65	69	66	75	74	59	52	54	48
28-11-17	74	66	54	52	64	55	77	73	60	56	71	65	69	66	76	77	59	53	53	51
29-11-17	75	67	57	52	66	59	75	76	62	55	71	65	70	67	74	75	62	52	55	50
30-11-17	75	67	56	52	64	58	73	74	62	55	72	65	70	67	74	75	59	67	54	51
01-12-17	75	68	58	53	67	59	71	74	63	56	71	65	71	67	74	74	60	52	57	51
02-12-17	74		60	54	65	57	72	70	62	57	71	65	70	67	73	76	60	52	57	52

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
03-12-17	76		59	53	65	62	73	71	61	56	72	65	70	66	70	78	59	51	56	49
04-12-17	76		59	53	67	60	74	69	63	55	71	65	71	67	75	77	61	52	54	49
05-12-17	77		60	61	69	66	67	63	63	58	72	65	71	68	70	76	61	53	55	50
06-12-17	75	72	55	56	66	61	68	66	62	57	72	66	70	69	75	72	60	52	53	49
07-12-17	75		56	52	65	57	70	66	62	55	72	65	70	66	74	71	60	52	54	49
08-12-17	75	72	62	54	71	57	74	70	62	56	71	66	70	67	74	72	61	53	56	50
09-12-17	77	68	62	56	68	55	74	76	63	58	71	66	71	68	74	72	61	55	56	53
10-12-17	75	67	61	53	68	55	73	71	59	56	71	66	70	67	73	75	60	52	56	51
11-12-17	75	67	55	52	64	55	74	75	60	55	71	64	69	67	76	81	59	52	54	50
12-12-17	75	67	55	52	64	57	74	75	61	56	71	65	69	66	78	78	61	51	53	50
13-12-17	75	67	57	52	66	58	69	69	62	56	71	65	70	66	74	73	61	52	54	49
14-12-17	75	67	58	52	68	61	72	71	62	56	72	65	70	67	71	69	62	52	54	49
15-12-17	76	67	60	52	70	58	69	71	63	56	72	65	71	67	72	71	61	52	56	50
16-12-17	75	67	58	52	67	57	70	70	63	57	72	66	71	67	71	73	60	52	55	50
17-12-17	74	67	59	51	66	55	68	69	62	57	72	66	70	67	71	75	59	52	57	50
18-12-17	75	66	61	52	67	56	73	71	63	55	72	64	71	66	73	77	61	53	54	49
19-12-17	75	67	61	53	67	55	75	74	63	56	71	65	70	67			60	54	55	49
20-12-17	75	67	57	52	65	55	74	76	63	57	71	65	70	68			60	52	54	49
21-12-17	75	67	56	52	64	55	69	73	62	57	71	65	71	67			60	52	54	51
22-12-17	75	67	57	52	67	57	75	72	62	57	72	66	70	67			60	52	56	50
23-12-17	75	68	56	52	64	56	73	76	61	57	71	66	70	67			60	53	54	50
24-12-17	74	68	53	51	63	58	70	71	60	57	71	66	69	66			60	51	54	49
25-12-17	74	67	55	51	63	57	74	73	59	55	70	64	69	66			58	51	52	49
26-12-17	75	67	60	52	66	57	74	72	62	56	71	65	70	66			59	51	55	49

Table 4: Ambient Noise Monitoring Data of Hyderabad for the year 2017

Date	ABIDS (C)		Gachibowli (S)		Gaddapotharam (I)		Jeedimetla (I)		jublee hills (R)		TSPCB (C)		JNTU (C)		Paradise (C)		Tarnaka (R)		Zoo (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
27-12-17	75	67	58	52	71	61	71	73	62	56	71	65	70	67			60	53	54	51
28-12-17	75	67	57	52	65	56	76	73	62	56	71	65	70	67			60	52	54	50
29-12-17	75	67	57	52	67	58	76	77	62	57	72	65	70	67			59	52	56	51
30-12-17	75	67	56	53	65	57	70	75	62	58	71	65	70	67			60	52	54	51
31-12-17	73	67	52	51	64	57	72	74	61	62	71	66	69	67			59	52	54	50

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-01-17	77	72	53	53	71	71	61	59	77	76	74	76	62	61	62	58	61	61	69	65
02-01-17	75	69	55	50	69	69	62	57	73	75	68	70	63	59	64	57	64	59	68	64
03-01-17	75	70	59	50	71	68	63	57	73	72	71	73	64	61	65	57	65	61	67	64
04-01-17	75	69	58	53	72	71	63	57	74	72	71	74	64	59	67	59	65	62	67	64
05-01-17	76	69	60	50	70	71	63	57	74	73	73	73	64	60	66	58	65	61	67	64
06-01-17	76	70	67	53	72	70	63	57	73	72	74	73	64	60	66	59	66	61	67	64
07-01-17	76	70	67	55	70	69	62	57	72	71	68	70	64	61	65	58	64	61	67	64
08-01-17	73	68	65	54	68	67	61	58	70	68	69	68	62	61	62	57	61	60	67	64
09-01-17	75	69	60	54	68	67	63	57	68	69	74	72	63	59	65	57	64	60	67	64
10-01-17	76	69	67	55	67	70	63	57	71	71	76	72	64	62	66	57	67	61	68	64
11-01-17	75	70	60	50	71	70	63	57	75	73	74	77	64	61	65	58	66	61	68	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
12-01-17		70	63	54	70	69	61	57	74	73	67	68	63	61	64	57	65	61	67	64
13-01-17	77	69	61	51	69	67	63	57	73	73	70	69	64	62	64	58	65	61	67	64
14-01-17	77	70	64	52	69	69	61	57	71	71	70	70	63	60	64	58	66	61	67	64
15-01-17	77	70	62	53	69	69	60	57	74	73	71	69	62	60	63	56	64	59	66	63
16-01-17	75	69	58	50	71	70	63	57	74	72	72	69	63	60	64	57	64	60	67	64
17-01-17	75	69	56	49	71	71	63	58	72	72	63	56	63	60	64	57	64	61	67	64
18-01-17	76	69	62	51	69	68	63	58	74	73	63	56	63	59	65	58	65	61	67	64
19-01-17	75	69	63	53	69	71	63	58	72	73	65	61	63	59	65	57	66	62	67	64
20-01-17	75	70	60	52	76	73	63	59	73	73	64	61	63	61	65	58	66	62	67	64
21-01-17	75	70	64	51	73	72	62	58	71	71	67	60	63	59	65	58	66	63	67	63
22-01-17	73	68	60	50	70	69	61	58	71	72	62	62	64	59	62	57	63	60	66	63
23-01-17	77	70	62	52	72	68	62	58	70	70	62	60	63	58	64	57	65	60	67	64
24-01-17	75	69	62	50	70	69	63	58	70	68	77	65	63	58	65	57	66	61	67	63
25-01-17	75	70	60	52	72	71	63	58	72	71	69	73	64	58	65	57	65	62	67	64
26-01-17	72	67	56	51	70	70	61	58	72	68	65	68	66	59	62	57	61	61	67	63
27-01-17	75	68	54	51	69	69	63	57	73	72	65	71	64	59	65	57	64	60	68	64
28-01-17	75	70	63	51	67	65	62	57	72	72	65	62	64	58	64	57	66	62	68	64
29-01-17	73	69	63	51	66	71	61	58	72	72	73	75	66	59	63	57	65	60	67	64
30-01-17	75	70	58	53	74	69	63	58	72	72	74	74	64	59	64	57	65	61	68	64
31-01-17	76	71	55	50	68	70	63	58	73	72	71	75	65	59	65	58	65	61	68	65
01-02-17	74	70	55	51	71	69	61	57	72	69	62	61	64	60	63	58	62	60	67	64
02-02-17	75	69	58	53	73	71	63	58	71	73	60	62	65	60	64	58	64	60	67	64
03-02-17	76	70	62	51	69	71	63	59	74	72	59	58	63	60	64	59	67	61	68	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
04-02-17	75	70	64	58	69	68	62	59	69	71	64	60	63	60	64	58	65	62	67	65
05-02-17	72	69	59	52	70	64	61	59	69	68	63	59	63	60	62	58	61	60	67	64
06-02-17	75	69	55	50	73	71	63	59	71	70	62	59	64	60	64	58	64	60	67	64
07-02-17	75	70	62	51	71	70	63	58	69	69	65	61	63	60	65	58	66	62	68	65
08-02-17	75	70	61	51	68	69	63	58	69	68	62	57	64	59	64	59	65	61	68	64
09-02-17	75	70	57	52	70	69	63	58	68	68	61	59	64	63	64	59	64	61	68	64
10-02-17	75	70	56	53	71	69	63	57	70	69	60	58	65	59	64	58	63	61	68	65
11-02-17	75	69	60	53	71	73	61	58	70	70	61	59	64	60	64	57	64	60	67	64
12-02-17	73	69	58	54	73	72	60	58	73	70	59	57	65	60	62	57	62	60	66	64
13-02-17	75	69	56	54	72	71	62	57	73	72	59	57	63	60	65	57	63	61	67	64
14-02-17	75	69	55	54	68	70	63	58	72	73	59	56	64	60	65	58	64	61	68	64
15-02-17	75	70	62	53	70	69	63	58	70	70	60	60	65	60	65	58	65	62	67	65
16-02-17	75	69	56	53	70	71	63	58	68	69	60	65	64	59	65	58	64	61	67	64
17-02-17	75	69	57	53	63	65	65	59	70	68	63	67	64	60	65	58	64	62	68	64
18-02-17	74	69	54	53	73	70	64	59	73	72	65	66	63	61	64	58	64	61	67	64
19-02-17	73	69	55	52	70	69	60	58	72	71	63	61	63	61	63	58	61	60	66	64
20-02-17	75	69	59	58	67	68	63	59	73	72	63	61	63	60	65	59	65	61	67	64
21-02-17	75	69	66	59	73	72	63	59	69	70	63	54	65	62	68	61	69	64	68	64
22-02-17	75	70	65	65	72	72	64	61	70	71	63	59	64	61	66	62	70	67	68	64
23-02-17	74	70	61	55	74	73	63	60	68	70	63	59	63	60	65	59	70	64	67	64
24-02-17	74	69	58	54	74	70	62	60	70	71	58	58	63	60	64	59	64	62	67	64
25-02-17	74	69	64	58	67	66	61	58	71	70	57	53	65	60	64	58	65	61	67	64
26-02-17	72	69	58	56	66	64	59	58	70	69	55	54	62	59	62	59	61	61	65	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
27-02-17	75	69	54	58	66	67	63	59	71	69	60	69	63	60	65	58	63	60	67	64
28-02-17	75	70	56	53	64	66	63	60	70	71	64	69	63	58	66	59	64	61	67	64
01-03-17	75	69	57	50	71	69	64	61	71	71	52	52	63	58	66	59	64	62	67	64
02-03-17	75	69	61	56	71	72	63	60	69	74	58	52	64	60	66	60	65	63	67	64
03-03-17	74	69	58	62	72	70	64	61	72	70	54	50	63	61	65	61	64	62	67	65
04-03-17	75	73	64	57	73	72	61	60	73	72	66	56	64	61	67	62	64	62	67	64
05-03-17	72	68	60	57	69	71	60	59	73	71	52	52	64	62	65	60	64	61	66	64
06-03-17	75	69	60	54	66	67	63	59	71	70	58	52	63	60	65	59	65	61	67	64
07-03-17	75	69	57	53	65	65	64	60	70	70	54	50	64	59	67	59	64	61	67	64
08-03-17	75	69	57	53	61	65	64	61	78	76	54	49	64	60	67	59	65	62	68	64
09-03-17	75	69	59	53	63	60	64	60			51	46	64	59	67	60	65	62	68	64
10-03-17	75	69	62	52	68	73	64	61	75		52	49	65	58	68	59	68	64	68	65
11-03-17	75	69	61	53	70	72	62	60	78		53		64	59	66	60	65	61	68	64
12-03-17	69	66	70	54	67	69	58	58			58	42	64	60	61	60	62	60	65	63
13-03-17	71	65	61	51	67	67	60	58	77	78	55	50	62	61	63	59	63	59	66	62
14-03-17	74	67	54	52	70	69	62	59		75	58	48	64	60	65	58	63	59	67	63
15-03-17	74	68	59	54	71	75	62	58			63	50	64	62	65	59	64	60	67	64
16-03-17	74	69	55	54	75	77	62	57			63	54	64	61	65	59	64	61	67	65
17-03-17	74	68	58	54	73	73	64	57	76		58	55	65	60	66	61	64	62	68	65
18-03-17	74	70	63	58	69	68	62	58	75		60	54	64	61	65	62	65	62	68	65
19-03-17	72	68	57	54	69	68	60	57	76	78	61	54	63	62	63	59	62	59	67	64
20-03-17	75	69	61	55	74	68	63	56			57	55	65	61	66	60	63	61	68	64
21-03-17	74	70	60	56	65	66	63	57	79		62	56	66	61	66	61	66	61	68	65

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
22-03-17	75	69	59	55	64	65	63	57	72	77	61	52	65	62	66	60	65	61	68	65
23-03-17	75	69	65	56	67	67	64	57	73	70	61	58	65	61	68	62	67	61	67	66
24-03-17	74	69	59	61	65	63	64	57	74	74	60	57	64	62	66	63	65	63	68	65
25-03-17	74	69	62	59	64	64	63	58	69	71	60	60	65	62	67	62	66	62	67	65
26-03-17	72	68	64	55	66	61	61	57	67	69	61	60	64	62	65	63	66	62	67	64
27-03-17	75	69	62	57	64	68	64	56	72	71	62	61	65	62	67	62	66	62	68	64
28-03-17	74	69	65	61	71	70	64	57	68	70	60	59	65	62	68	62	67	62	67	65
29-03-17	74	70	62	62	62	63	64	57	68	68	61	60	66	63	67	64	67	65	68	65
30-03-17	75	70	71	66	67	66	67	59	69	68	62	61	67	63	72	65	73	67	68	65
31-03-17	74	70	68	61	68	65	65	58	72	72	60	57	66	62	69	63	69	64	68	65
01-04-17	74	70	69	67	60	66	63	59	74	71	60	57	67	64	69	65	69	65	68	65
02-04-17	72	68	70	66	71	64	62	58	75	76	60	62	67	64	69	65	70	65	67	64
03-04-17	75	69	66	66	71	64	65	59	73	72	60	59	65	64	68	66	68	66	68	64
04-04-17	75	70	68	64	61	66	65	59	78	76	62	60	66	64	70	67	70	67	68	65
05-04-17	74	70	66	64	70	68	65	57	75	74	64	62	67	65	68	64	69	65	68	65
06-04-17	75	69	60	62	67	67	64	57	71	73	63	63	65	63	67	64	66	62	68	65
07-04-17	75	70	65	57	72	70	65	57	72	73	64	64	65	62	68	63	67	63	68	65
08-04-17	75	69	61	60	71	70	62	58	72	72	61	63	66	62	66	62	65	63	68	65
09-04-17	72	68	58	60	70	71	61	60	72	73	60	58	63	62	63	61	63	61	67	65
10-04-17	75	69	55	60	73	73	64	57	73	76	63	61	64	62	65	60	66	61	68	65
11-04-17	74	69	60	60	64	66	64	58	75	73	62	63	64	62	65	61	64	62	67	65
12-04-17	75	70	62	56	73	72	64	58	72	75	62	63	64	61	66	61	66	62	68	65
13-04-17	75	70	66	59	74	70	64	57	74	73	63	59	65	61	67	62	68	65	68	65

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
14-04-17	74	70	67	60	69	66	62	57	72	74	60	60	65	63	68	64	69	65	68	67
15-04-17	73	69	71	58	62	60	62	57	76	71	60	60	68	62	69	63	70	62	67	65
16-04-17	72	68	63	55	68	67	61	57	76	75	60	61	64	60	66	61	63	60	66	64
17-04-17	74	69	56	55	76	73	63	57	73	70	61	62	65	60	66	60	65	61	68	64
18-04-17	75	69	67	60	76	69	64	57	72	73	61	61	66	62	69	63	69	64	68	65
19-04-17	76	70	74	65	63	63	68	59	73	74	59	59	68	64	72	68	72	66	68	65
20-04-17	75	71	67	69	67	65	65	60	74	75	61	60	67	66	69	72	70	67	68	65
21-04-17	75	70	71	66	61	62	67	59	71	73	59	60	67	64	71	67	71	69	68	64
22-04-17	75	70	67	70	67	63	63	60	71	71	61	62	67	67	69	69	71	70	67	65
23-04-17	72	68	69	57	73	64	64	57	74	74	61	64	65	60	67	61	69	60	67	64
24-04-17	74	69	72	63	64	63	67	58	76	74	61	60	67	62	70	65	71	64	68	64
25-04-17	75	70	66	65	67	62	64	58	72	75	61	60	64	64	67	64	69	65	67	64
26-04-17	74	69	61	58	72	73	63	57	72	70	62	61	64	62	67	62	66	63	67	64
27-04-17	75	69	65	60	73	67	64	58	69	69	62	61	65	62	67	63	67	64	67	64
28-04-17	74	70	63	64	66	70	64	58	71	70	63	62	64	64	67	63	66	65	67	65
29-04-17	74	70	69	60	72	74	62	58	73	72	63	62	66	63	68	63	68	63	67	64
30-04-17	72	69	70	65	69	68	62	58	76		63	61	65	62	68	65	70	65	66	64
01-05-17	74	68	64	63	68	67	62	57	72	77	61	60	64	63	66	62	67	64	66	64
02-05-17	75	69	62	56	71	64	64	57	73	71	63	60	63	60	66	62	66	61	67	64
03-05-17	75	70	63	57	62	68	64	57	71	73	60	62	64	61	66	61	67	63	67	64
04-05-17	74	70	62	58	72	70	63	57	70	73	60	60	64	61	66	61	67	63	67	64
05-05-17	74	69	67	59	72	74	65	57	68	70	63	61	65	61	67	63	68	64	67	64
06-05-17	74	70	69	61	70	70	64	58	72	71	63	61	66	62	68	62	72	63	67	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
07-05-17	71	69	71	56	73	71	61	57	71	74	60	58	63	60	65	60	68	61	66	64
08-05-17	75	69	67	62	71	74	64	57	73	73	60	60	65	62	68	65	68	63	67	64
09-05-17	74	69	65	56	70	70	61	57	72	72	62	62	64	60	67	61	69	61	66	64
10-05-17	73	69	59	56	69	69	60	57	73	72	60	60	63	61	65	60	65	62	67	64
11-05-17	75	69	66	59	73	72	64	57	72	72	64	62	65	61	67	61	69	62	67	64
12-05-17	74	69	55	56	73	73	64	57	72	72	63	62	62	61	65	61	68	63	66	64
13-05-17	74	69	69	61	76	70	63	58	76	76	60	61	64	61	66	60	68	62	67	64
14-05-17	71	69	60	56	66	68	61	57	79		61	63	62	62	64	61	66	63	66	64
15-05-17	74	69	66	65	65	63	63	58			59	58	65	63	69	63	68	65	67	63
16-05-17	75	70	60	59	68	67	63	57	79		61	58	64	63	66	63	65	63	67	64
17-05-17	75	70	55	57	73	74	64	57	76		60	59	64	62	66	62	65	63	67	64
18-05-17	74	69	62	55	73	70	64	57	75	79	58	62	64	61	66	61	67	62	67	64
19-05-17	74	69	60	58	64	67	64	58	73	76	62	61	64	62	66	61	65	63	67	64
20-05-17	74	69	67	60	71	66	63	58	78	75	61	60	64	62	67	63	68	64	67	64
21-05-17	71	69	66	57	75	74	61	57	74	71	64	62	63	62	65	61	67	63	66	64
22-05-17	74	69	67	64	74	73	64	58	75	73	62	62	64	62	67	62	68	65	66	64
23-05-17	74	70	65	56	73	64	64	57	74	73	62	61	65	61	66	61	68	63	67	64
24-05-17	74	70	65	63	71	71	65	58	75		64	61	64	62	67	62	69	65	67	64
25-05-17	73	69	67	60	67	67	65	57	72	72	67	62	64	61	67	61	69	63	67	64
26-05-17	74	69	67	61	63	66	64	57	79	76	65	61	65	62	68	62	70	64	67	64
27-05-17	74	69	59	59	64	63	61	57	74	75	65	62	64	61	65	61	64	63	67	64
28-05-17	71	69	60	55	59	63	60	57	76	79	65	63	62	61	64	61	62	62	65	64
29-05-17	74	69	61	54	69	70	64	56	76		64	64	64	60	66	59	65	61	67	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
30-05-17	74	70	60	55	64	67	63	57	72	75	67	66	64	60	65	59	66	62	67	64
31-05-17	74	69	56	53	69	69	63	57	72	71	66	72	64	59	65	60	65	62	67	64
01-06-17	74	69	68	59	70	70	66	57	73	77	68	70	65	60	69	61	71	63	67	64
02-06-17	74	69	69	60	69	70	66	58	74	79	62	66	66	61	69	62	71	64	67	64
03-06-17	74	69	69	64	66	67	65	60	73	73	62	63	66	63	68	64	70	67	67	64
04-06-17	71	68	68	69	70	69	62	61	73	73	64	63	65	65	68	68	69	69	66	64
05-06-17	74	69	67	66	71	70	66	57	69	70	60	62	65	63	68	68	69	67	67	63
06-06-17	74	69	59	53	72	70	64	57	71	69	69	64	63	60	65	61	65	61	67	64
07-06-17	74	69	58	55	70	71	64	57	79	78	61	64	63	59	67	59	65	62	67	64
08-06-17	74	69	57	52	63	67	64	57			61	60	65	59	67	59	65	61	67	64
09-06-17	74	69	57	53	66	65	64	57	71	73	64	62	65	61	67	60	65	61	67	64
10-06-17	74	69	62	57	69	69	62	58	74	71	65	61	65	60	68	59	65	61	66	64
11-06-17	72	68	70	61	70	70	60	57		79	62	62	63	61	66	60	68	63	66	64
12-06-17	75	69	65	62	70	70	64	57	73	77	65	64	65	61	61	60	67	65	68	64
13-06-17	74	69	61	56	69	70	60	58	76	72	67	66	65	60	63	59	66	63	67	64
14-06-17	74	70	66	62	66	68	65	59	74	72	63	65	65	61	65	58	68	63	67	64
15-06-17	74	69	62	56	67	67	64	58	70	71	62	62	65	61	65	59	65	62	67	64
16-06-17	75	70	61	56	69	70	65	58	71	73	63	62	64	60	65	59	66	63	68	64
17-06-17	76	70	64	58	67	67	63	58	74	75	63	60	65	61	66	61	68	63	67	64
18-06-17	77	69	67	57	68	67	62	58	73	73	65	63	64	61	65	62	70	64	66	63
19-06-17	75	69	62	64	69	68	66	59	74		61	64	65	63	63	59	70	65	68	65
20-06-17	75	70	56	65	66	60	65	58	78		53	58	66	63	66	60	66	64	67	65
21-06-17	75	70	56	61	62	61	63	57	77	75	59	58	64	60	66	61	66	64	67	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
22-06-17	75	70	57	59	58	61	64	58	74	71	60	60	66	60	66	60	65	62	67	64
23-06-17	75	70	58	60	59	58	66	58	78	73	62	62	65	60	68	62	66	62	68	64
24-06-17	75	70	58	56	63	69	62	58	75	77	62	59	65	61	66	63	65	62	68	64
25-06-17	75	70	63	57	63	64	61	58		77	64	63	67	59	67	62	64	61	66	64
26-06-17	72	68	64	57	65	56	62	57	73	72	64	62	67	60	65	63	65	60	66	62
27-06-17	75	68	64	58	55	56	65	58	74	70	66	65	65	61	67	62	67	61	67	63
28-06-17	76	70	62	56	58	53	65	58	74	77	66	65	66	60	68	62	66	62	67	63
29-06-17	75	70	60	56	58	70	64	58			66	64	66	62	67	64	66	62	68	64
30-06-17	75	70	60	54	68	70	64	58			65	65	66	60	72	65	66	61	67	64
01-07-17	75	70	58	58	59	63	63	58	75	78	60	63	65	63	63	58	65	63	68	64
02-07-17	73	68	58	56	59	61	63	58	72	75	63	62	69	68	63	58	64	59	67	63
03-07-17	76	69	57	56	70	67	64	58			64	62	65	60	64	58	65	60	67	63
04-07-17	75	69	58	56	66	75	65	57	75	77	64	62	65	60	65	57	66	62	68	63
05-07-17	75	69	57	54	68	63	65	57	74	74	64	63	64	60	65	57	64	61	67	63
06-07-17	75	69	56	54	63	68	64	57	77	78	65	64	64	61	64	57	64	60	68	63
07-07-17	75	69	58	55	71	68	65	57	79		65	64	65	60	65	57	64	60	68	64
08-07-17	75	69	58	54	69	71	63	57		78	73	66	64	61	63	57	64	60	67	64
09-07-17	72	68	65	56	50	63	62	57	75	74	67	64	65	59	62	57	66	61	67	63
10-07-17	75	69	60	58	65	63	65	59	72	73	65	65	65	61	65	59	67	62	67	63
11-07-17	75	70	55	58	72	72	64	59	73	71	63	64	64	61	64	59	64	62	68	64
12-07-17	76	69	54	53	67	69	63	57	73	74	61	62	65	59	63	57	64	60	68	63
13-07-17	75	69	61	51	71	72	65	57	74	75	60	64	65	60	65	57	66	61	67	64
14-07-17	76	69	62	52	70	71	65	58	71	73	59	58	65	60	69	58	64	61	67	63

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
15-07-17	75	70	64	54	61	73	62	58	76	75	62	58	64	58	66	61	64	60	67	63
16-07-17	73	68	64	53	67	67	66	58	72	71	64	65	64	58	67	59	63	60	66	63
17-07-17	75	68	66	58	68	71	68	60	73	76	60	60	65	60	68	60	65	60	67	63
18-07-17	75	70	66	57	57	58	67	61	76	74	71	64	65	60	67	61	65	62	67	63
19-07-17	77	71	64	55	67	66	66	60			61	65	65	59	67	60	65	62	67	63
20-07-17	76	71	58	58	66	68	64	60			63	63	64	61	65	61	64	64	67	65
21-07-17		69	56	53	70	70	63	58	75	76	57	60	63	59	65	59	63	61	67	63
22-07-17	75	69	56	54	73	72	63	58		74	61	64	64	59	66	59	64	61	67	63
23-07-17	72	69	57	57	74	73	63	58			67	68	62	62	63	60	63	63	67	63
24-07-17	74	69	70	67	70	69	66	62			62	60	66	66	68	64	70	68	67	64
25-07-17	75	69	63	61	66	67	64	58	79	76	69	57	64	60	66	60	66	63	67	62
26-07-17	76	69	62	52	69	69	64	57	76	76	69	69	65	60	67	58	65	60	67	62
27-07-17	76	70	58	52	72	72	64	57	78	75	74	70	64	59	67	58	65	61	68	62
28-07-17	76	70	58	53	53	62	64	57	76	79	76	74	64	58	66	58	64	61	67	63
29-07-17	77	70	55	51	46	50	62	57	77	76	77	74	63	59	65	58	64	61	67	62
30-07-17	72	68	56	52	75	69	61	57	77	77	73	72	62	58	62	58	61	58	66	62
31-07-17	75	69	55	52	72	69	64	57	74	74	66	63	63	58	66	58	64	59	68	62
01-08-17	75	69	58	51	72	71	64	57	76	75	76	74	64	59	66	58	64	60	67	63
02-08-17	75	69	57	53	65	69	64	57	74	73	75	72	64	59	66	59	64	61	67	63
03-08-17	75	69	59	53	70	62	64	57	79	76	66	62	64	58	68	59	66	61	68	62
04-08-17	76	69	58	51	70	69	64	58	73	77	65	65	64	59	65	59	65	61	67	63
05-08-17	75	70	57	53	68	72	62	58	71	74	62	66	64	59	65	58	64	61	67	63
06-08-17	75	68	59	52	69	70	61	57	77	75	67	67	63	60	63	58	62	58	66	62

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
07-08-17		70	60	53	71	72	64	56	73	73	73	73	63	59	66	58	64	60	67	61
08-08-17	76	69	59	53	70	71	64	57	74	78	79	75	64	59	66	58	65	61	67	63
09-08-17	76	69	64	57	70	72	64	58	77	80	76	75	65	60	66	59	68	63	67	63
10-08-17	75	69	69	59	75	72	66	58	74	77	75	76	66	59	68	59	69	63	67	63
11-08-17	76	69	63	58	67	73	64	58	71	74	77	76	64	59	66	60	67	63	66	63
12-08-17	76	69	56	53	75	73	62	57	72	77	71	71	64	59	65	59	64	62	67	63
13-08-17	75	70	56	52	59	69	61	57	77	75	69	65	64	58	62	60	62	61	66	62
14-08-17	75	69	55	52		75	62	57	76	75	62	64	63	59	64	60	64	60	67	62
15-08-17	73	68	61	52	72	72	62	57	77	76	64	62	65	59	62	58	62	60	66	63
16-08-17	75	68	57	53	73	65	64	57	75	77	69	66	65	59	65	59	67	60	67	63
17-08-17	75	70	59	51	67	68	63	57	82	75	69	73	65	58	66	59	64	62	67	63
18-08-17	76	69	63	55	64	59	64	57	78	80	65	64	68	60	68	61	65	61	66	63
19-08-17	75	69	63	56	67	70	63	58	84	82	75	62	67	60	67	61	65	61	67	63
20-08-17	72	69	59	53	69	72	61	56	78	79	64	65	67	60	66	59	62	59	66	62
21-08-17	76	68	56	51	73	72	64	56	76	76	68	69	64	59	66	58	64	59	68	63
22-08-17	75	69	55	50	73	69	64	56	77	76	63	62	64	60	66	58	64	60	67	63
23-08-17	76	69	56	52	73	71	64	56	75	77	65	65	66	59	67	58	65	61	68	63
24-08-17	76	70	59	52	69	66	63	56	77	75	64	65	64	59	67	58	63	61	68	64
25-08-17	76	69	64	53	71	70	64	56	75	74	68	63	64	60	69	59	64	61	67	63
26-08-17	76	70	62	52	71	69	62	57	71	71	70	65	64	59	69	59	64	61	67	63
27-08-17	76	70	63	55	70	70	62	57	73	77	71	67	65	59	68	61	62	61	66	63
28-08-17	76	70	64	61	70	72	65	59	76	75	59	60	65	61	70	63	66	61	67	63
29-08-17	76	70	57	55	73	72	64	58	73	74	65	64	64	61	69	60	64	61	67	63

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
30-08-17	76	70	59	53	76	74	64	57	67	72	61	64	64	59		58	64	62	67	63
31-08-17	76	70	57	51	75	73	64	57	69	70	64	64	63	59		58	64	61	67	63
01-09-17	76	70	59	52	64	60	64	58	74	74	63	63	64	60		55	65	60	68	63
02-09-17	73	67	60	51	60	48	62	56	74	74	65	65	62	59	69	58	63	58	66	62
03-09-17	72	67	59	51	55	63	61	56	71	70	66	64	62	59	66	57	62	57	66	62
04-09-17	76	69	60	51	63	64	64	56	78	74	68	68	63	58	72	57	64	58	67	62
05-09-17	75	69	57	52	66	65	64	57	76	77	69	66	63	59	70	58	64	60	67	62
06-09-17	75	69	59	54	59	66	64	57	73	73	69	68	63	59	68	58	64	61	67	63
07-09-17	75	69	59	53	59	63	64	57	71	71	68	66	63	59	67	60	65	61	67	63
08-09-17	76	70	60	53	63	63	64	57	73	73	71	72	63	60	66	60	66	60	67	63
09-09-17	75	71	64	56	64	64	64	58	70	71	70	70	66	60	65	60	68	61	67	63
10-09-17	74	69	64	60	61	62	63	58	71	68	74	70	65	60	64	59	67	61	66	62
11-09-17	75	69	63	55	65	65	65	57	68	67	74	69	65	61	69	59	66	60	67	62
12-09-17	76	70	56	56	63	53	64	60	67	67	74	72	65	61	70	59	64	62	66	63
13-09-17	77	70	58	52	64	61	64	58	72	70	74	70	64	60	66	58	64	61	66	63
14-09-17	76	70	56	53	62	66	64	58	69	69	73	68	63	59	70	58	63	61	66	63
15-09-17	76	70	56	54	65	71	65	58	74	74	69	68	63	60	67	58	64	61	67	63
16-09-17	75	70	58	54	62	64	64	58	72	73	76	70	63	60	66	58	63	62	66	63
17-09-17	72	68	56	54	67	67	62	57	70	72	68	66	63	60	61	57	63	60	65	62
18-09-17	76	70	59	55	66	67	65	57	72	71	68	67	64	59	66	58	65	62	67	62
19-09-17	79	72	56	53	64	65	63	58	77	77	67	67	63	59	66	58	63	61	67	63
20-09-17	77	72	59	54	59	61	64	58	78	78	70	69	64	59	71	59	65	62	68	64
21-09-17	76	72	62	55	60	60	64	58	68	77	72	72	64	59	71	61	65	63	67	63

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
22-09-17	77	72	59	54	63	61	64	58	72	72	75	72	63	58	69	59	65	62	67	63
23-09-17	76	73	56	55	67	65	63	58	73	75	73	71	63	60	65	59	64	62	67	63
24-09-17	76	74	58	57	59	60	62	59	71	74	73	71	62	60	64	60	62	60	66	64
25-09-17	78	74	59	54	57	58	64	59	71	75	74	72	64	60	68	58	64	60	67	64
26-09-17	78	75	75	56	60	63	63	59	71	71	75	71	62	59	65	58	63	60	66	64
27-09-17	78	77	75	58	54	53	63	60	71	74	67	69	63	60	65	58	62	60	66	65
28-09-17	75	76	76	56	64	63	62	61	74	71	73	73	62	58	62	59	61	59	66	65
29-09-17	77		67	56	65	65	62	61	67	69	68	71	63	58	62	58	61	59	66	66
30-09-17	75		73	63	61	62	62	61	71	70	63	66	62	58	62	60	60	60	66	65
01-10-17	70	70	57	54	69	73	61	58	70	69	66	64	61	59	61	58	59	58	64	63
02-10-17	74	70	56	53	64	67	61	57	77	73	64	65	62	58	67	57	62	57	65	62
03-10-17	73	69	55	52	63	58	63	56	70	68	72	68	63	59	69	57	63	58	66	61
04-10-17	74	69	54	51	67	70	61	56	75	75	73	70	63	59	68	58	63	60	66	62
05-10-17	73	69	58	53	70	67	61	57	74	74	73	72	63	59	68	58	64	60	65	62
06-10-17	74	68	59	52	69	70	62	57	74	74	69	70	65	59	70	58	64	60	66	62
07-10-17	74	69	57	53	74	74	62	57			73	72	64	60	69	58	63	60	67	62
08-10-17	73	69	68	60			62	58	73	73	66	66	65	61	66	59	66	63	66	63
09-10-17	75	69			67		68	60	72	70	62	63	70	65	75	66			68	65
10-10-17	75	68	63	54	63	67	64	56	76	76	49	50	65	59	68	59	66	60	67	63
11-10-17	75	70	55	52	73	75	64	57	72	74	57	55	66	59	67	59	65	60	69	63
12-10-17	75	70	55	52	64	68	63	57	73	74	50	50	66	59	66	59	64	61	68	64
13-10-17	75	69	58	53	63	70	63	57	72	72	57	55	67	59	66	59	66	61	67	65
14-10-17	75	69	58	51	69	71	62	58	73	77	71	64	65	61	65	58	65	60	67	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
15-10-17	72	68	53	50	63	68	60	56	71	70	66	64	64	60	67	58	60	59	66	63
16-10-17	75	70	54	50	67	62	63	56	69	69	52	54	66	61	69	59	63	60	67	63
17-10-17	79	72	59	52	65	61	64	58	71	71	48	47	65	60	67	60	64	61	67	64
18-10-17	76	73	66	57	69	70	64	58	73	75	50	51	65	60	69	60	64	61	68	64
19-10-17	77	73	70	59			64	59	70	71	61	59	66	62	67	62	64	62	68	65
20-10-17	75	73	66	67			64	63	71	70	61	60	66	66	68	66	66	63	68	67
21-10-17	76	72	71	66	68	64	64	62	77	74	67	62	65	64	65	63	66	67	69	67
22-10-17	73	72	61	57	58	71	61	58	72	71	68	61	63	62	65	60	62	60	68	64
23-10-17	77	70	57	52	69	68	64	58	68	73	73	71	63	60	68	60	64	59	67	64
24-10-17	76	71	58	53	61	72	64	57	68	69	66	65	64	61	67	60	64	60	67	63
25-10-17	77	70	56	58	64	63	65	57	70	69	65	61	64	60	69	59	64	61	68	64
26-10-17	78	71	59	52	67	64	63	57	71	70	69	60	64	59	67	59	64	60	68	64
27-10-17	75	72	57	52	51	50	61	57	69	70	58	60	64	60	69	60	63	60	68	64
28-10-17	77	72	55	52	57	53	62	57	70	68	55	55	63	59	67	58	62	61	68	64
29-10-17	75	71	58	57	52	57	60	57	71	70	61	59	62	59	65	59	60	59	67	64
30-10-17	76	71	57	53	50	53	63	56	72	72	65	62	63	59	70	57	63	60	68	64
31-10-17	77	74	58	52	62	60	63	57	70	73	67	62	64	60	65	59	64	61	68	64
01-11-17	75	70	59	52	57	60	63	56	74	71	64	61	63	59	67	59	64	60	68	64
02-11-17	75	70	58	51	58	61	63	56	73	71	58	60	65	59	66	58	63	60	68	64
03-11-17	75	69	60	52	50	54	63	57	71	72	62	60	64	58	66	59	64	60	67	64
04-11-17	75	69	61	53	64	53	61	57	74	74	63	61	62	58	68	59	63	60	67	64
05-11-17	72	68	58	53	62	67	60	56	73	71	55	63	63	58	62	59	62	59	66	63
06-11-17	75	69	62	52	75		63	56	76	72	62	57	63	59	65	58	65	60	67	63

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
07-11-17	75	70	62	50			63	56	75	75	63	59	63	59	68	59	66	60	67	64
08-11-17	76	69	60	51			63	57	77	76	62	61	63	58	69	59	65	61	67	63
09-11-17	75	70	59	50			63	58	78	77	62	64	64	58	66	59	64	60	67	64
10-11-17	75	69	60	50	77		63	57	74	74	64	63	64	59	67	59	64	60	67	64
11-11-17	75	70	57	51			62	57	78	78	64	64	64	60	67	59	63	60	67	64
12-11-17	72	68	59	50			60	56	74	75	67	67	63	59	64	58	62	60	66	63
13-11-17	75	68	60	50			63	56	77	77	66	66	64	58		58	64	60	67	63
14-11-17	75	69	66	52			63	57	71	75	65	67	65	58	66	57	64	61	67	64
15-11-17	75	69	56	54			64	57	72	74	69	67	65	59	65	58	63	60	68	64
16-11-17	76	69	59	55		72	63	56	74	75	67	68	64	57	65	57	64	60	67	64
17-11-17	76	70	57	56	79	73	63	59	71	71	57	61	65	59	68	59	64	61	68	64
18-11-17	76	70	54	52	75		63	57	74	73	61	61	64	58		58	62	59	68	64
19-11-17	72	69	55	51			61	57	70	69	70	67	62	58	61	57	60	58	66	63
20-11-17	75	69	59	52			63	57	69	70	70	70	64	58	66	58	65	60	67	63
21-11-17	75	69	62	52			63	57	74	75	69	70	64	58	65	58	65	61	67	63
22-11-17	75	69	60	49			63	57	71	72	70	69	64	58	64	58	65	62	67	64
23-11-17	75	69	59	51			63	57	72	72	72	71	63	58	64	57	64	61	67	64
24-11-17	75	69	57	52			63	57	73	72	72	71	63	58	64	58	64	61	67	64
25-11-17	75	69	60	51			62	57	71	71	74	74	65	60	63	58	64	61	67	64
26-11-17	72	68	57	50	78		61	57	70	70	72	72	63	59	61	57	60	60	66	64
27-11-17	75	69	56	50	72	72	63	57	70	70	71	71	64	57	64	58	63	60	67	63
28-11-17	75	69	62	52	75	74	63	58	71	72	70	71	64	60	64	58	64	61	68	64
29-11-17	75	70	63	63	71	70	63	58	72	72	73	71	64	58	64	58	64	61	67	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
30-11-17	78	71	62	63	69	67	63	58	69	71	70	69	64	58	64	58	65	61	67	64
01-12-17	76	71	60	62	70	69	63	58	70	72	68	68	64	58	64	58	64	61	67	65
02-12-17	77	69	61	52	72	70	62	57	72	71	67	67	63	58	63	57	64	60	67	64
03-12-17	78	70	61	51	63	67	63	58	73	72	66	64	63	58	61	57	62	58	66	64
04-12-17	75	69	58	50	67	68	63	58	74	69	68	68	64	57	65	57	63	60	68	63
05-12-17	75	69	60	51	71	71	63	57	71	72	69	66	64	58	65	58	64	61	68	64
06-12-17	75	70	59	50	70	70	63	58	67	66	69	68	63	57	65	57	63	61	68	64
07-12-17	75	69	57	50	63	69	63	57	70	66	66	67	63	58	66	57	63	61	68	64
08-12-17	75	69	56	52	73	72	63	57	73	74	66	65	63	57	65	57	63	60	68	64
09-12-17	75	69	60	55	66	71	62	59	76	76	67	66	63	58	64	57	64	60	68	64
10-12-17	72	68	59	57	69	68	61	58	71	73	67	68	62	58	62	57	61	59	67	64
11-12-17	75	69	56	53	67	67	63	57	72	73	64	68	64	57	66	57	63	61	68	64
12-12-17	75	69	57	49	63	68	63	57	72	72	72	67	64	58	65	57	63	60	68	64
13-12-17	75	69	57	50	66	68	63	58	73	72	70	70	63	57	70	57	64	60	68	64
14-12-17	75	69	57	50	72	73	63	57	70	71	70	68	64	58	68	57	64	60	68	64
15-12-17	75	69	59	50	78	74	63	57	72	72	72	68	64	57	67	58	64	61	68	64
16-12-17	75	69	61	51	75	72	62	58	75	73	69	69	64	58	66	58	65	61	68	64
17-12-17	73	68	63	51	73	71	61	58	75	73	73	73	61	57	69	57	64	60	67	64
18-12-17	75	69	59	52	68	68	63	57	72	69	71	69	64	57	70	57	64	60	68	64
19-12-17	76	69	58	55	73	70	63	57	68	69	70	70	66	59	65	57	64	61	68	64
20-12-17	75	70	56	49	73	72	63	57	70	70	71	70	63	59	65	57	65	61	68	64
21-12-17	76	69	56	49	70	70	63	57	70	72	75	73	64	57	69	57	63	61	68	65
22-12-17	75	69	58	49	66	64	63	58	70	73	74	73	63	57	70	57	64	60	68	64

Table 5: Ambient Noise Monitoring Data of Kolkata for the year 2017

Date	BAG BAZAR (R)		BIRATI (R)		GOLE PARK (I)		HEAD QUARTER (C)		NEW MARKET (C)		PATAULI (R)		RGKAUR (S)		SSKM (S)		TARATALA (I)		TOLLYGUNJ (C)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
23-12-17	75	69	59	51	56	62	62	58	68	71	74	73	63	57	68	57	63	61	68	64
24-12-17	73	68	59	51	62	61	61	57	70	69	73	73	62	57	68	58	62	59	67	64
25-12-17	73	68	61	50	66	69	61	57	70	69	74	73	62	57	63	58	63	59	67	64
26-12-17	74	69	62	51	72	71	62	57	70	72	73	73	63	57	65	57	65	60	67	64
27-12-17	75	69	60	53	69	71	63	57	73	74	73	72	63	57	65	57	64	61	67	64
28-12-17	75	68	62	52	71	72	63	57	73	71	73	71	63	58	68	58	65	61	67	64
29-12-17	75	69	59	52	74	76	63	58	70	70	72	72	62	57	65	58	64	60	67	64
30-12-17	75	69	60	51	71	74	62	58	70	69	71	70	63	57	64	58	64	61	67	64
31-12-17	73	69	61	54	75	76	61	58	71	71	70	70	62	57	63	58	63	61	67	64

Table 6: Ambient Noise Monitoring D**ata of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
01-01-17	77	69	62	54	56	51	63	57	74	68	55	44	63	58	58	52	62	57	61	56
02-01-17	77	68	60	52	65	51	65	56	75	64	56	45	64	57	60	53	68	58	64	54
03-01-17	77	67	62	52	65	55	65	56	76	65	56	45	63	58	62	53	68	61	65	57
04-01-17	77	67	61	53	66	55	65	55	76	70	56	45	65	57	63	55	65	57	65	58
05-01-17	77	66	63	51	66	53	65	56	75	67	56	43	64	56	62	54	68	58	64	54
06-01-17	77	66	62	51	66	55	66	55	76	67	56	42	64	56	62	53	69	60	65	57
07-01-17	77	67	62	55	65	55	65	56	76	70	56	42	64	57	61	54	68	60	65	60
08-01-17	76	67	61	53	57	50	62	55	78	72	54	42	64	57	59	52	68	60	63	56
09-01-17	77	68	60	55	66	48	65	56	75	68	56	45	64	57	62	54	69	59	65	59

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
10-01-17	77	68	66	56	67	56	65	56	74	70	57	45	65	58	62	53	68	58	66	59
11-01-17	77	67	63	56	66	56	65	56	75	68	56	47	65	58	62	53	68	60	65	60
12-01-17	77	67	61	56	66	62	65	56	74	67	58	44	64	58	61	55	68	60	64	56
13-01-17	77	67	61	56	66	55	64	56	78	72	57	48	65	58	62	54	69	61	63	58
14-01-17	76	67	61	56	63	54	63	56	72	66	56	48	65	58	60	52	68	60	63	59
15-01-17	75	66	60	57	57	51	62	56	70	67	56	45	63	57	57	51	64	59	62	56
16-01-17	77	68	60	56	65	49	65	58	77	63	56	47	65	57	62	53	68	61	64	59
17-01-17	77	67	61	56	66	57	65	57	76	69	57	48	65	58	62	53	68	61	65	57
18-01-17	77	67	61	54	66	54	65	57	77	70	58	43	65	58	63	51	68	59	65	55
19-01-17	77	68	62	55	67	56	68	57	76	74	57	47	65	57	62	52	67	61	64	56
20-01-17	77	68	65	57	67	56	65	57	77	65	57	51	65	59	62	53	68	61	65	58
21-01-17	77	68	61	56	66	56	65	58	74	71	60	48	65	58	60	51	69	61	64	58
22-01-17	76	68	61	56	55	51	62	59	75	72	58	46	64	58	59	51	64	60	63	56
23-01-17	77	68	63	56	65	48	66	57	75	69	58	49	65	58	62	53	68	60	65	56
24-01-17	77	68	64	56	66	56	65	57	74	73	58	47	65	58	62	54	69	61	65	59
25-01-17	77	67	63	56	66	60	66	58	76	69	59	46	63	57	62	54	69	62	64	58
26-01-17	76	68	64	55	60	54	63	58	73	64	58	47	65	57	58	53	64	61	63	58
27-01-17	77	68	62	63	66	56	66	60	79	66	57	48	64	56	63	55	69	62	66	61
28-01-17	77	67	64	53	67	57	65	58	76	68	59	45	64	56	60	51	68	61	66	58
29-01-17	76	67	64	54	59	53	63	57	76	69	57	47	64	57	58	52	65	60	63	59
30-01-17	78	68	63	53	66	50	66	57	76	75	59	46	64	58	61	52	68	60	65	56
31-01-17	77	68	62	56	66	56	66	57	75	69	58	45	63	57	62	52	68	62	65	56
01-02-17	77	68	62	57	66	56	65	57	75	68	59	50	65	57	61	55	68	62	65	57

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
02-02-17	77	69	61	57	66	58	65	57	79	68	58	48	65	57	61	54	68	63	65	58
03-02-17	78	68	61	57	67	61	65	58	76	70	57	47	66	58	61	53	69	63	65	60
04-02-17	78	69	62	58	65	58	65	58	78	71	57	45	65	58	60	52	69	63	65	59
05-02-17	76	68	64	55	59	55	63	59	75	68	56	49	65	59	58	53	63	62	64	58
06-02-17	77	70	62	54	66	52	66	58	76	69	57	51	65	64	61	56	69	63	65	60
07-02-17	77	69	67	58	67	57	67	60	75	70	58	52	65	60	61	54	70	63	68	62
08-02-17	77	68	62	58	66	59	65	58	75	72	58	49	65	59	61	53	71	63	66	59
09-02-17	77	68	63	57	68	57	65	59	75	68	58	54	66	58	62	53	69	62	65	57
10-02-17	77	68	63	56	67	58	65	60	76	70	56	52	64	58	61	55	69	62	65	60
11-02-17	76	68	62	57	65	58	64	57	75	68	57	50	64	59	61	53	70	62	64	60
12-02-17	75	69	62	57	58	56	63	57	73	67	55	49	63	59	58	52	64	61	63	57
13-02-17	77	69	62	55	66	50	65	58	75	67	58	50	64	59	61	53	69	64	64	55
14-02-17	78	69	64	57	67	61	66	57	75	69	59	53	65	59	62	52	69	61	64	57
15-02-17	77	69	61	57	66	58	66	58	78	70	58	51	65	60	61	54	69	62	64	57
16-02-17	77	69	61	57	65	60	65	58	75	71	56	51	64	61	60	54	68	61	64	59
17-02-17	77	69	61	56	65	59	65	58	77	72	55	46	64	60	61	53	69	61	65	58
18-02-17	77	69	62	57	66	57	65	57	75	69	56	48	64	59	60	54	69	63	64	60
19-02-17	74	69	62	57	53	54	62	58	69	69	58	50	61	58	57	53	64	61	61	55
20-02-17	77	69	61	58	65	51	65	58	77	71	56	50	64	59	61	56	68	60	65	57
21-02-17	76	69	64	58	66	59	66	58	77	73	58	49	64	58	61	55	68	61	65	61
22-02-17	77	69	66	58	68	64	66	58	78	72	57	53	64	58	61	55	68	61	67	58
23-02-17	77	69	68	58	67	59	67	58	76	71	58	50	67	63	61	55	69	62	69	62
24-02-17	76	69	70	59	67	58	66	60	74	72	56	51	65	60	60	53	68	61	69	64

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-02-17	76	68	66	58	67	58	66	58	77	71	58	51	68	60	60	53	68	62	68	61
26-02-17	75	68	65	58	61	54	66	58	74	70	56	54	64	58	59	52	66	61	66	61
27-02-17	76	68	63	58	66	51	66	58	76	72	58	50	65	62	61	53	67	62	65	56
28-02-17	76	68	63	58	66	58	65	58	75	69	56	52	65	59	61	54	68	62	64	57
01-03-17	76	69	64	59	67	59	65	59	74	67	57	52	66	60	61	55	68	62	64	58
02-03-17	76	68	69	59	66	58	67	58	76	67	58	49	65	59	61	55	68	61	65	56
03-03-17	76	68	63	58	67	58	66	59	74	67	58	49	64	59	61	55	68	61	63	55
04-03-17	76	68	62	61	66	58	65	60	74	65	57	50	64	59	60	55	69	61	63	55
05-03-17	75	68	63	58	62	56	64	59	72	66	57	50	65	60	58	54	66	61	65	57
06-03-17	76	69	65	57	67	52	66	60	75	64	57	51	66	59	61	55	68	63	66	59
07-03-17	76	68	62	57	66	62	65	58	75	67	57	48	64	59	61	55	68	62	64	56
08-03-17	77	67	62	58	68	58	66	59	75	65	57	49	65	59	61	56	69	62	64	57
09-03-17	76	68	61	58	66	58	66	59	77	72	55	48	65	59	62	55	69	61	64	57
10-03-17	77	69	67	67	68	61	66	61	76	69	55	50	65	60	62	56	69	62	65	61
11-03-17	76	69	63	56	67	63	64	58	74	69	56	48	64	58	60	54	69	61	64	58
12-03-17	75	67	64	57	59	52	63	56	72	64	56	48	63	57	59	53	63	58	63	55
13-03-17	73	66	65	57	56	44	63	57	68	61	56	48	62	57	56	53	62	55	63	55
14-03-17	75	65	62	55	57	45	63	57	75	61	53	47	63	55	59	53	62	51	62	53
15-03-17	75	68	63	56	64	50	65	57	75	68	55	49	65	59	60	52	67	56	65	55
16-03-17	76	68	62	58	65	53	64	57	76	72	56	52	64	58	61	55	67	61	64	56
17-03-17	76	68	63	56	66	57	65	57	76	72	56	50	65	58	62	57	67	61	65	60
18-03-17	76	68	64	57	67	61	65	58	76	72	56	50	64	58	61	56	68	60	65	59
19-03-17	75	68	64	56	65	56	63	58	73	72	56	51	64	59	59	55	65	60	61	56

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
20-03-17		70	66	57	67	53	67	58	76	70	58	53	66	57	63	56	69	62	67	59
21-03-17	77		64	57	67	58	66	58	75	73	58	53	64	58	62	57	68	62	66	58
22-03-17	76	68	64	57	68	59	66	58	76	71	58	52	64	59	62	56	69	63	64	56
23-03-17	76	68	61	56	67	58	65	59	75	69	58	53	65	58	62	57	69	63	64	59
24-03-17	76	68	60	56	65	56	66	62	76	71	57	50	64	59	62	57	69	64	64	59
25-03-17	76	68	66	57	68	58	66	58	75	73	57	51	65	58	60	55	69	61	66	58
26-03-17	75	68	64	56	64	55	64	58	73	73	58	51	64	58	58	56	65	61	65	55
27-03-17	76	69	63	56	66	53	65	58	77	71	56	51	64	59	62	57	69	62	64	56
28-03-17	76	68	62	57	67	58	66	58	74	72	59	51	64	58	62	57	69	63	65	58
29-03-17	75	67	65	56	66	58	66	57	78	77	56	50	64	58	62	57	69	62	65	55
30-03-17	76	68	67	58	66	58	66	58	75	69	57	52	65	58	62	56	68	61	69	57
31-03-17	76	68	61	57	63	58	65	58	74	69	56	51	63	58	62	56	69	62	64	57
01-04-17	75	68	63	58	63	55	65	58	74	69	56	50	63	58	61	58	70	62	65	59
02-04-17	74	68	65	58	58	53	64	57	71	66	55	50	63	58	59	56	70	62	66	58
03-04-17	76	68	65	57	64	52	65	57	74	68	55	51	64	58	61	57	71	62	66	56
04-04-17	75	67	62	60	63	54	63	57	73	68	55	52	62	58	61	58	71	62	63	57
05-04-17	75	67	63	59	64	54	65	58	74	67	56	52	63	59	62	58	70	61	65	59
06-04-17	76	68	64	62	64	62	66	62	74	74	57	50	64	58	62	57	66	62	66	59
07-04-17	76	68	63	60	64	56	65	59	74	68	57	51	63	59	62	57	69	61	64	58
08-04-17	75	68	62	58	65	54	63	57	74	67	56	51	62	58	61	58	68	60	63	57
09-04-17	73	68	66	58	61	52	64	58	72	68	56	49	63	58	59	56	69	61	66	57
10-04-17	75	68	69	57	66	54	67	59	75	67	57	49	65	59	63	57	69	61	70	61
11-04-17	75	67	69	59	65	54	66	57	73	68	55	50	64	58	62	57	70	61	69	60

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
12-04-17	75	68	63	58	63	54	65	58	74	72	56	50	63	58	61	59	69	61	64	58
13-04-17	75	68	62	58	63	54	64	58	74	69	57	53	63	59	62	58	68	61	63	59
14-04-17	75	67	61	58	64	54	65	59	73	71	56	51	62	58	60	57	70	61	62	58
15-04-17	75	68	63	59	66	54	64	60	75	68	57	53	63	58	60	57	69	62	62	60
16-04-17	74	68	62	64	55	53	63	63	70	70	56	52	62	60	58	57	69	62	63	62
17-04-17	75	69	61	59	66	52	65	61	74	65	61	57	63	59	62	58	69	61	63	60
18-04-17	76	69	61	58	63	52	65	59	73	69	60	57	63	59	62	57	69	63	64	57
19-04-17	75	69	61	59	64	52	65	60	72	68	56	52	63	59	62	57	70	63	63	61
20-04-17	76	68	63	62	64	55	66	61	74	70	56	53	63	59	62	58	69	63	66	64
21-04-17	75	68	62	64	64	52	65	63	74	68	57	52	63	60	62	58	69	63	67	66
22-04-17	75	68	62	61	65	51	65	60	74	67	57	53	63	60	61	57	68	62	67	64
23-04-17	75	68	62	60	57	55	63	63	72	66	55	53	63	59	59	57	62	61	64	59
24-04-17	76	69	62	56	65	53	65	61	74	66	56	52	63	59	62	57	63	58	64	59
25-04-17	75	68	69	59	65	53	66	59	73	70	57	53	64	58	62	59	66	57		63
26-04-17	75	68	65	59	65	53	65	59	73	69	56	52	64	59	62	58	66	58		63
27-04-17	75	68	64	60	64	52	65	59	73	69	57	54	63	59	62	58	66	57	66	59
28-04-17	75	68	64	59	65	52	65	60	73	69	57	54	63	59	61	58	69	61	66	58
29-04-17	74	69	61	62	64	54	65	60	71	69	56	53	62	60	60	58	68	62	63	60
30-04-17	74	68	61	61	59	53	63	60	72	66	55	54	62	60	58	58	69	62	62	61
01-05-17	75	70	62	60	61	54	65	62	73	70	57	53	63	61	62	58	69	62	64	62
02-05-17	75	68	62	55	64	52	65	59	73	69	58	52	63	58	62	58	68	62	63	59
03-05-17	75	69	62	61	65	58	65	62	73	66	54	54	63	58	62	58	69	62	64	
04-05-17	75	68	64	60	65	57	66	63	73	67	57	53	63	59	61	59	65	61	66	65

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
05-05-17	75	68	64	56	66	54	65	59	74	69	57	52	62	58	61	59	69	61	66	58
06-05-17	75	69	63	57	65	54	64	60	73	70	57	53	63	58	60	59	68	62	65	59
07-05-17	74	69	64	56	64	53	63	59	71	69	55	52	62	60	58	59	69	62	63	60
08-05-17	75	69	64	66	69	57	66	63	74	70	57	53	63	59	62	59	68	62	66	65
09-05-17	75	69	66	62	70	55	66	61	73	68	57	53	63	59	62	59	68	62	66	58
10-05-17	75	69	65	64	70	55	66	63	74	70	55	51	63	59	60	58	68	63	67	63
11-05-17	75	68	64	57	71	54	65	60	74	70	57	54	63	59	62	57	65	61	64	59
12-05-17	75	69	62	56	72	55	66	60	74	66	56	52	63	60	61	57	68	64	64	59
13-05-17	75	68	63	56	73	55	64	59	73	70	56	51	63	60	61	56	69	66	63	60
14-05-17	74	68	64	56	73	55	62	58	70	68	55	52	63	59	58	57	68	62	62	58
15-05-17	75	68	61	56	73	55	65	59	74	66	61	53	63	59	62	58	69	62	64	59
16-05-17	77	69	63	57	74	59	66	60	74	70	59	54	64	58	62	57	68	62	65	60
17-05-17	76	68	68	60	72	58	68	62	75	71	58	52	64	59	63	58	68	62	68	63
18-05-17	75	68	63	55	72	58	65	58	74	71	57	52	63	59	62	58	63	61	64	59
19-05-17	75	68	65	56	72	59	66	59	76	70	55	52	64	60	63	58	67	61	67	59
20-05-17	75	68	65	56	73	60	66	59	73	69	56	51	63	59	61	57	67	61	63	58
21-05-17	74	68	65	56	72	59	62	59	72	67	56	52	62	60	60	57	67	61	63	58
22-05-17	75	69	65	61	68	52	65	59	74	67	56	53	63	59	64	58	68	63	65	58
23-05-17	77	69	65	58	67	53	66	59	74	67	56	51	64	59	64	58	68	62	64	58
24-05-17	76	68	63	55	63	51	65	58	75	68	55	51	63	59	65	58	68	63	63	57
25-05-17	75	69	63	56	68	52	65	59	75	68	55	51	63	60	66	59	64	61	63	56
26-05-17	75	68	62	61	67	56	65	61	75	74	56	52	63	59	66	60	68	62	63	58
27-05-17	76	69	68	68	68	54	69		74	70	57	56	65	62	64	59	66	61	69	67

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
28-05-17	75	69	66	64	67	58	64	62	72	72	57	53	63	60	65	59	69	63	65	64
29-05-17	77	69	62	61	67	55	66	62	76	71	56	54	64	62	65	59	69	62	64	60
30-05-17	77	70	64	58	68	54	69	60	76	73	56	52	66	60	65	57	68	61	69	59
31-05-17	76	68	63	57	68	52	66	59	75	69	56	53	64	60	66	56	69	62	69	67
01-06-17	76	68	63	56	56	51	65	59	76	71	55	53	63	60	66	57	67	60	63	57
02-06-17	76	68	65	56	65	51	67	58	76	71	54	53	63	59	67	57	69	59	65	58
03-06-17	75	69	67	56	65	55	65	59	75	72	54	53	63	59	66	58	68	63	65	59
04-06-17	74	68	62	56	66	55	62	58	72	70	54	53	61	59	67	57	69	62	61	57
05-06-17	76	68	66	61	66	53	65	60	77	70	56	51	64	60	67	57	70	64	64	59
06-06-17	78	70	67	61	66	55	69	61	77	70	57	53	66	61	66	57	71	64	69	62
07-06-17	77	69	62	57	65	55	65	59	75	69	55	52	65	62	66	57	70	64	64	61
08-06-17	76	68	65	55	57	50	65	58	75	75	57	52	65	61	67	58	67	62	64	60
09-06-17	76	68	63	58	66	48	65	58	75	73	54	52	64	61	67	58	69	60	64	59
10-06-17	76	69	63	57	67	56	64	58	75	70	55	51	64	60	66	58	69	63	65	61
11-06-17	76	69	64	57	66	56	62	58	72	68	54	52	63	61	65	57	70	64	63	57
12-06-17	77	69	64	56	66	62	66	59	75	71	54	51	64	59	64	58	70		65	56
13-06-17	77	69	64	56	66	55	65	58	74	70	53	50	65	60	63	57	72		64	58
14-06-17	76	69	63	58	63	54	66	59	75	72	53	53	65	61	63	58	69		62	53
15-06-17	76	69	63	58	57	51	65	59	75	71	55	52	65	60	60	52	65		65	55
16-06-17	77	69	63	58	65	49	69	60	76	70	58	54	66	62	64	57	69		64	56
17-06-17	77	69	64	56	66	57	64	59	75	70	55	55	67	62	64	56	69		65	60
18-06-17	75	69	66	56	66	54	65	58	73	70	54	51	66	63	62	60	68	63	65	59
19-06-17	76	70	62	57	67	56	65	61	75	69	55	51	66	62	64	59	68	63	61	56

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
20-06-17	76	69	64	59	67	56	66	60	77	70	55	51	66	63	65	58	69	63	67	59
21-06-17	76	69	63	58	66	56	66	59	75	71	55	52	67	61		58	68	63	66	58
22-06-17	77	69	66	58	55	51	66	60	79	74	55	52	66	61	63	56	65	61	64	56
23-06-17	76	69	64	57	65	48	65	60	76	71	55	52	66	61	63	57	68	62	64	59
24-06-17	76	69	62	57	66	56	65	59	76	71	55	52	66	61	62	56	70	63	64	59
25-06-17	76	69	64	59	66	60	64	60	75	73	54	51	65	62	60	55	69	64	66	58
26-06-17	76	69	64	58	60	54	64	60	73	73	54	52	66	62	62	57	69	63	65	55
27-06-17	78	69	64	61	66	56	66	61	77	67	54	52	65	61	62	56	70	63	64	56
28-06-17	77	68	66	62	67	57	67	62	76	69	54	52	67	64	62	57	69	63	65	58
29-06-17	77	69	64	61	67	60	66	57	77	72	55	51	67	63	62	55	65	62	65	55
30-06-17	78	69	61	56	68	57	66	59	76	70	55	53	66	61	62	55	68	62	69	57
01-07-17	77	69	62	56	67	59	68	60	74	71	58	52	66	61	60	55	74	64	66	58
02-07-17	76	69	62	58	62	57	63	61	73	70	57	52	66	61	62	55	65		64	61
03-07-17	78	69	61	57	66	58	66	60	76	71	56	53	66	61	62	57	67	61	65	62
04-07-17	77	68	62	58	66	55	66	60	77	71	56	53	66	61	61	55	68	61	65	59
05-07-17	77	70	61	59	67	64	66	61	74	69	57	56	67	62	58	56	67	64	66	62
06-07-17	77	69	61	59	61	59	67	61	76	73	57	54	67	62	59	59	68	62	67	60
07-07-17	78	68	61	57	61	57	67	61	76	74	57	52	68	60	60	53	70	62	66	60
08-07-17	77	69	61	57	61	57	65	59	75	71	55	52	69	61	60	62	68	62	64	59
09-07-17	76	68	60	57	60	57	62	58	75	75	55	51	66	61	57	60	64	60	63	59
10-07-17	77	69	62	57	62	57	66	59	74	67	56	51	66	61	67	57	67	60	66	61
11-07-17	77	68	65	58	65	58	66	58	74	63	57	50	67	61	65	55	70	60	66	61
12-07-17	77	68	62	59	62	59	67	60	74	68	56	51	68	61	60	57	69	59	67	61

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
13-07-17	77	68	64	62	64	62	67	61	73	69	56	49	67	62	60	53	70	60	68	63
14-07-17	77	69	65	59	65	59	67	59	75	69	56	51	66	61	59	54	69	61	66	60
15-07-17	77	68	61	58	61	58	65	61	74	69	56	50	66	62	58	53	69	59	65	59
16-07-17	75	68	62	58	62	58	62	58	70	69	53	50	65	60	57	54	65	58	63	58
17-07-17	77	69	61	57	61	57	66	58	74	68	54	51	66	61	60	54	70	60	64	59
18-07-17	76	68	62	58	65	58	66	59	75	70	56	51	66	60	62	54	68	60	65	59
19-07-17	76	68	62	58	68	55	67	58	64	59	56	52	66	60	62	55	69	64	66	59
20-07-17	76	68	64	58	67	58	68	59	71	60	55	52	67	60		66	70	62	68	61
21-07-17	76	69	64	60	67	62	67	59	55	61	58	52	67	60	63	57	68	62	68	61
22-07-17	77	68	66	60	67	59	66	60	66	58	57	50	67	60	62	54	67	62	68	63
23-07-17	76	69	63	58	59	52	64	59	64	61	55	51	65	61	56	51	65	60	65	61
24-07-17	77	69	61	57	67	51	66	58	68	62	57	54	66	61	59	51	68	61	65	59
25-07-17	77	68	61	59	67	56	66	59	69	61	57	52	67	60	61	52	70	62	66	61
26-07-17	77	68	62	58	66	56	67	60	65	58	57	51	68	59	60	53	68	63	67	61
27-07-17	77	69	67	60	68	54	68	59	66	61	56	53	67	60	60	53	69	61	70	61
28-07-17	77	68	65	61	67	54	66	59	63	59	56	53	66	60	60	52	70	61	66	61
29-07-17	76	68	61	58	66	54	67	57	66	60	57	52	66	60	60	53	68	60	64	59
30-07-17	75	67	60	58	64	53	63	61	63	59	56	50	65	60	56	52	64	58	63	59
31-07-17	77	68	60	58	67	53	66	59	66	59	57	52	66	61	59	52	67	59	64	59
01-08-17	77	68	61	59	66	54	66	58	61	60	58	52	66	60	59	51	68	60	65	61
02-08-17	77	68	64	58	67	54	66	58	59	56	57	52	67	61	60	51	68	61	67	60
03-08-17	77	68	63	58	68	53	66	59	60	54	56	50	67	61	59	52	67	60	66	60
04-08-17	77	69	61	58	66	55	66	59	64	58	57	52	66	60	59	51	67	60	65	60

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
05-08-17	76	69	61	58	66	55	65	58	64	60	56	50	66	60	58	52	69	60	64	60
06-08-17	75	69	61	58	63	55	63	61	62	57	55	51	65	59	60	56	65	60	64	59
07-08-17	76	68	61	58	57	54	63	59	59	55	55	53	65	61	57	57	62	61	62	60
08-08-17	77	68	61	58	64	56	66	57	63	59	60	51	66	60	58	53	67	58	64	59
09-08-17	77	68	61	57	66	61	66	58	62	57	58	51	67	61	64	56	67	61	66	59
10-08-17	77	68	62	57	67	54	66	58	62	56	58	50	67	60	61	60	67	60	66	59
11-08-17	77	68	63	59	68	59	66	59	61	56	58	52	67	61		63	67	60	66	60
12-08-17	77	69	65	63	67	61	65	64	62	60	57	53	67	67	58	60	67	61	66	66
13-08-17	76	68	62	60	65	58	63	61	59	57	55	52	70		55	52	66	60	63	62
14-08-17	77	68	62	57	67	55	65	58	64	56	58	52	69	60	59	53	68	59	65	60
15-08-17	75	68	61	57	57	54	63	58	61	57	56	54	67	58	56	52	61	59	62	58
16-08-17	77	69	62	57	67	52	66	58	64	54	56	56	67	61	59	53	68	61	65	59
17-08-17	77	69	62	57	66	55	66	58	66	61	56	54	66	60	59	53	67	61	64	58
18-08-17	77	68	62	57	67	54		60	65	59	57	53	67	59	60	53	68	60	66	59
19-08-17	76	68	66	62	68	58	68	61	63	59	55	52	67	60	58	53	69	61	67	63
20-08-17	75	68	66	58	66	55	66	61	63	60	55	54	65	60	57	53	63	59	67	60
21-08-17	77	68	64	60	66	55	67	60	64	62	56	53	66	60	60	54	68	61	66	61
22-08-17	76	68	64	58	64	54	67	58	63	59	56	52	66	60	60	55	68	61	65	59
23-08-17	77	67	61	58	68	55	66	58	61	58	58	52	68	64	66	53	67	61	65	59
24-08-17	77	68	62	58	67	56	66	58	64	56	57	52	66	60	59	54	67	60	64	61
25-08-17	76	68	61	59	67	56	66	59	62	55	57	51	66	60	67	56	68	61	65	58
26-08-17	76	69	62	60	68	58	65	60	55	54	57	54	66	62	60		69	64	64	61
27-08-17	75	68	63	58	65	60	63	58	54	51	55	51	66	59	63	51	63	60	65	61

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
28-08-17	77	69	64	61	67	65	67	62	57	56	55	52	67	63	62	59	68	64	67	64
29-08-17	77	68	67	63	69	58	68	62	59	54	57	52	67	61	61	53	69	63		67
30-08-17	77	68	65	61	68	56	67	59	58	54	58	53	67	60	60	51	68	61	66	62
31-08-17	77	68	62	59	67	55	66	58	59	55	57	53	66	61	59	52	69	61	64	59
01-09-17	77	68	62	57	66	53	66	59	58	55	59	55	67	62	60	54	69	62	66	60
02-09-17	76	68	63	58	66	54	64	58	57	57	56	52	65	60	56	51	68	60	64	61
03-09-17	76	67	61	58	64	54	62	58	58	59	57	53	65	59	55	50	64	59	68	58
04-09-17	77	68	64	57	66	55	66	58	57	57	55	51	66	60	60	53	67	62	66	62
05-09-17	77	67	63	58	67	55	66	58	57	57	58	51	66	61	59	53	69	61	65	58
06-09-17	76	68	62	59	66	54	66	59	56	54	56	50	66	62	60	54	68	61	64	58
07-09-17	76	70	63	61	67	55	66	59	56	55	56	52	66	59	60	54	70	60	65	58
08-09-17	76	67	64	59	68	59	65	59	57	54	56	50	66	62	59	54	68	61	65	61
09-09-17	76	68	64	60	68	56	65	58	64	62	56	51	66	61	59	54	69	62	64	58
10-09-17	75	68	64	60	62	55	63	58	60	62	53	51	65	61	57	54	63	61	62	58
11-09-17	76	68	62	58	68	55	65	58	58	63	55	50	68	65	61	55	68	60	64	57
12-09-17	77	68	64	60	67	55	65	58	59	61	55	50	66	63	60	55	68	61	64	57
13-09-17	76	68	62	59	66	55	66	60	60	60	55	50	67	65	60	55	69	60	63	57
14-09-17	76	67	62	59	68	56	65	58	59	62	56	51	68	62	60	54	68	60	64	58
15-09-17	77	67	62	59	67	58	66	58	60	57	56	52	68	63	60	55	69	61	64	58
16-09-17	76	68	62	60	67	56	64	58	64	60	54	53	66	62	59	54	69	60	64	59
17-09-17	75	67	61	60	64	56	62	58	63	62	54	51	64	64	56	54	66	60	62	57
18-09-17	77	67	63	60	65	54	67	58	61	61	56	50	66	59	61	55	70	59	65	57
19-09-17	76	68	63	61	67	58	66	58	64	60	53	52	66	63	60	54	70	61	64	58

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
20-09-17	77	68	63	62	64	56	65	59	61	61	54	50	68	69	60	55	70	61	65	60
21-09-17	76	68	63	61	67	56	67	61	60	59	57	53	68	71	63	55	71	64	66	62
22-09-17	78	68	66	63	68	58	68	61	61	54	57	50	67	62	60	66	70	63	69	65
23-09-17	77	68	64	60	69	58	65	60	64	55	56	52	67	63	57	50	66	61	64	
24-09-17	76	69	61	57	65	58	63	59	58	60	55	54	66	62	55	50	63	58	64	58
25-09-17	77	69	62	58	66	56	65	60	59	57	56	51	68	61	59	53	66	59	65	58
26-09-17	77	68	62	58	68	58	65	58	59	61	56	52	66	61	59	54	66	60	64	58
27-09-17	77	68	61	58	68	57	65	58	59	61	55	53	67	62	59	55	66	60	64	59
28-09-17	77	68	63	58	67	58	69	64	63	61	56	52	67	61	59	57	66	67	64	59
29-09-17	76	69	63	58	66	59			61	61	55	54	66	62	58	54	65	59	62	59
30-09-17	75	69	61	58	62	55	63	59	61	63	57	53	64	62	56	55	65	59	69	64
01-10-17	75	68	62	56	59	53	62	58	63	65	53	51	66	61	55	55	63	58	61	58
02-10-17	75	68	61	56	55	50	63	59	60	65	56	51	64	62	56	53	63	57	61	56
03-10-17	77	69	61	56	65	52	66	59	61	61	56	50	66	62	59	54	66	60	64	58
04-10-17	77	69	62	56	67	56	66	59	62	59	55	50	66	60	60	54	65	60	64	60
05-10-17	77	68	61	57	65	55	65	59	67	63	56	51	66	61	59	54	65	59	64	58
06-10-17	76	69	61	57	59	51	65	63	61	62	57	55	66	62	60	53	65	60	64	59
07-10-17	76	69	63	57	60	54	65	59	58	58	57	54	65	62	59	54	66	60	63	60
08-10-17	75	68	62	57	55	54	67	63	58	58	54	50	65	64	56	54	65	59	63	58
09-10-17	77	68	63	57	58	54	65	58	59	59	56	51	65	62	60	55	65	59	65	57
10-10-17	77	68	61	56	58	52	66	58	59	58	56	50	65	62	60	55	65	60	64	58
11-10-17	77	69	60	56	56	51	65	59	63	56	57	52	67	65	60	55	67	63	65	60
12-10-17	77	68	63	56	56	51	65	59	61	58	59	49	65	62	60	55	65	62	65	62

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
13-10-17	77	69	60	57	55	50	66	59	64	59	58	51	65	62	59	55	66	60	66	59
14-10-17	76	69	61	58	57	50	64	59	72	69	58	52	69	65	58	55	66	60	64	61
15-10-17	76	69	61	58	55	49	63	59	72	71	57	51	68	71	56	55	65	61	63	58
16-10-17	77	69	63	56	56	54	65	59	70	66	57	50	70	66	64	56	64	57	64	57
17-10-17	77	69	61	57	55	50	65	59	70	67	59	53	70	67	61	56	64	58	65	59
18-10-17	77	69	61	56	56	50	64	60	74	70	58	54	68	71	60	56	64	57	64	60
19-10-17	75	70	61	59	56	57	63	61	68	67	59	61	66	69	58	58	60	59	62	60
20-10-17	73	68	61	56	53	50	61	57	69	62	56	56	67	63	59	56	59	56	62	57
21-10-17	75	67	62	56	52	48	63	59	71	67	57	54	67	68	59	55	59	55	61	56
22-10-17	74	68	62	56	55	48	62	59	71	70	55	50	66	70	59	55	63	55	62	57
23-10-17	76	69	60	57	55	49	65	60	75	70	55	51	70	70	62	56	63	56	63	58
24-10-17	77	68	62	57	56	50	65	59	74	67	57	51	70	68	61	55	63	57	63	57
25-10-17	76	68	61	58	61	58	65	58	74	71	57	50	68	68	60	55	63	57	63	57
26-10-17	76	68	62	58	62	58	65	58	74	70	57	49	67	59	61	54	63	57	63	59
27-10-17	77	69	61	58	61	57	68	63	74	69	56	52	69	63	61	54	63	57	63	58
28-10-17	77	68	62	57	62	57	65	59	74	68	58	50	67	57	60	55	63	57	63	58
29-10-17	75	68	61	57	61	57	63	59	74	73	56	50	66	58	57	55	63	56	62	58
30-10-17	77	69	61	56	61	56	66	59	75	72	57	48	66	59	61	53	63	56	64	59
31-10-17	76	68	65	62	65	62	66	59	77	74	60	53	66	58	61	53	64	57	64	58
01-11-17	77	68	63	60	63	60	66	59	76	71	58	54	64	58	61	54	63	57	63	58
02-11-17	77	69	63	58	63	58	66	59	79	71	58	49	67	57	61	55	62	57	63	57
03-11-17	77	68	62	57	62	57	66	59	75	74	56	48	66	57	61	54	62	57	64	57
04-11-17	76	69	61	58	61	58	64	58	73	71	56	47	65	57	58	53	61	56	63	57

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
05-11-17	75	69	62	57	62	57	63	59	74	73	56	48	64	57	57	53	62	56	62	57
06-11-17	77	69	61	57	64	59	66	59	78	72	58	51	65	59	61	53	63	57	64	59
07-11-17	77	69	62	57	64	59	66	59	77	74	58	50	64	59	61	54	63	57	64	59
08-11-17	77	68	62	55	64	60	66	58	78	76	60	49	64	60	61	52	63	57	64	60
09-11-17	77	68	63	58	64	58	65	58	79	76	58	48	64	58	61	53	63	56	64	58
10-11-17	77	68	63	58	64	59	65	57	78	72	58	48	64	59	60	52	64	56	64	59
11-11-17	76	69	62	59	63	59	64	58	77	74	58	47	65	59	60	49	62	56	63	59
12-11-17	75	69	63	58	62	57	64	59	75	74	57	50	64	57	57	52	64	55	62	57
13-11-17	77	68	63	58	64	60	66	58	79	75	58	47	64	60	60	52	62	55	64	60
14-11-17	77	68	61	58	64	58	66	58	78	73	60	48	64	58	60	53	63	55	64	58
15-11-17	77	68	58	62	65	59	66	60	79	78	61	51	65	59	60	55	62	56	65	59
16-11-17	77	69	59	62	65	59	66	62	78	77	59	47	65	59	60	54	62	56	65	59
17-11-17	77	69	59	64	64	58	65	59	72	74	59	50	64	58	60	55	62	56	64	58
18-11-17	77	69	60	65	64	60	65	58	71	71	61	52	65	60	59	55	63	55	64	60
19-11-17	75	69	60	64	63	58	63	58	71	69	58	50	64	60	56	49	62	55	63	58
20-11-17	77	69	60	62	65	58	67	60	72	71	59	52	65	60	60	51	63	56	65	58
21-11-17	77	69	59	62	66	62	66	59	73	71	59	51	65	59	60	52	65	57	66	62
22-11-17	77	69	61	61	65	60	65	58	72	72	60	49	65	60	60	52	64	56	65	60
23-11-17	77	69	60	62	65	60	65	59	71	70	61	50	65	61	59	52	64	62	65	60
24-11-17	77	69	60	62	65	58	65	59	72	72	62	52	65	60	59	52	63	62	65	58
25-11-17	76	69	61	63	63	59	65	59	78	74	58	50	64	59	59	52	63	57	63	59
26-11-17	74	68	59	61	61	56	62	58	73	72	56	51	62	59	56	52	62	56	61	56
27-11-17	77	68	59	61	64	57	67	58	76	69	57	49	65	58	60	52	63	57	64	57

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
28-11-17	77	69	60	61	64	60	65	59	76	72	58	48	65	59	60	51	63	57	64	60
29-11-17	77	69	62	61	64	60	65	60	72	71	57	47	65	60	59	52	63	57	64	60
30-11-17	77	69	60	61	64	58	67	59	73	70	58	47	65	61	59	52	62	57	64	58
01-12-17	76	68	63	61	64	58	65	58	72	71	59	49	65	58	59	54	64	61	64	58
02-12-17	77	68	64	59	63	57	66	59	71	70	57	47	64	59	57	50	63	58	63	57
03-12-17	76	68	62	59	62	58	63	59	70	69	57	47	64	59	56	50	61	61	62	58
04-12-17	77	69	62	60	64	60	66	59	71	68	56	49	65	58	60	51	62	59	64	60
05-12-17	77	69	62	59	64	57	66	58	72	69	58	45	65	57	60	51	62	55	64	57
06-12-17	77	68	61	58	64	58	66	57	72	71	58	47	65	57	59	50	62	54	64	58
07-12-17	77	68	62	59	65	57	66	57	72	70	59	47	66	59	60	52	63	55	65	57
08-12-17	77	68	62	59	64	57	66	56	73	71	58	49	65	63	60	52	63	55	64	57
09-12-17	76	69	63	59	66	61	65	59	71	72	57	49	65	60	61	51	64	56	63	58
10-12-17	76	69	63	58	67	54	64	59	70	69	56	47	64	59	62	51	61	54	62	59
11-12-17	76	69	64	60	68	59	66	59	72	68	58	50	65	63	64	51	62	56	63	57
12-12-17	77	68	63	61	67	61	66	58	76	71	57	48	65	60	60	52	62	54	64	59
13-12-17	77	68	62	58	65	58	66	59	74	70	58	48	66	59	62	52	62	54	64	58
14-12-17	77	68	64	58	67	55	66	57	78	71	57	46	65	59	60	61	63	54	64	58
15-12-17	77	68	63	59	57	54	67	57	76	70	57	45	65	60	60	51	63	57	65	57
16-12-17	77	68	63	60	67	52	65	57	74	70	58	48	67	61	59	52	63	55	65	58
17-12-17	76	68	63	59	66	55	64	58	75	72	55	46	65	61	57	50	62	54	64	58
18-12-17	77	68	56	63	67	54	66	57	74	73	58	44	65	58	60	51	62	54	64	57
19-12-17	77	67	56	64	68	58	66	57	73	70	56	41	65	57	60	51	63	54	65	57
20-12-17	77	67	59	63	66	55	66	57	74	69	56	46	66	59	60	52	63	55	64	57

Table 6: Ambient Noise Monitoring **Data of Lucknow for the year 2017**

Date	Aliganj (C)		CCS Airport (C)		Chinhat (I)		Gomti Nagar (S)		Hazrat Gunj (C)		Indira Nagar (R)		IT College (S)		P.G.I. (S)		Talkatora (I)		Vibhuti Khand (R)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
21-12-17	77	68	65	63	67	62	66	58	72	70	58	47	65	58	60	51	63	55	64	58
22-12-17	77	67	57	62	67	59	66	58	73	71	57	48	67	56	60	50	63	55	65	58
23-12-17	77	68	58	63	59	52	66	58	73	70	60	47	65	57	59	52	63	53		61
24-12-17	76	67	59	62	67	51	64	57	72	70	57	45	64	57	57	50	67	66	63	57
25-12-17	76	66	57	63	67	56	64	56	72	72	55		65	55	56	48	69	61	63	53
26-12-17	77	67	57	63	66	56	66	57	73	71	59	44	65	58	59	49	66	61	64	57
27-12-17	78	68	59	64	68	54	66	58	72	71	59	45	65	58	60	51	67	59	64	58
28-12-17	77	68	59	64	67	54	66	57	75	73	58	45	65	58	59	51	74	67	64	57
29-12-17	77	66	58	63	66	54	66	55	73	72	56		65	56	58	49	64	61		53
30-12-17	77	67	58	64	64	53	65	55	74	75	56	40	64	59	56	48	70	63		54
31-12-17	76	67	58	63	67	53	63	58	73	72	56	43	64	57	55	48		60	70	56

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Standards	**50**	**40**	**65**	**55**	**75**	**70**	**65**	**55**	**65**	**55**	**75**	**70**	**75**	**70**	**55**	**45**	**65**	**55**	**50**	**40**
01-01-17	75	74	70	73	65	66	69	71	64	64	55	51	57	54	65	57	54	53	70	66
02-01-17	76	75	73	67	70	64	68	69	66	64	57	51	60	54	67	56	54	53	73	77
03-01-17	75	75	73	67	72	68	69	69	66	65	60	51	60	55	65	56	54	53	72	
04-01-17	75	74	73	67	70	67	69	69	66	65	57	51	60	55	62	56	54	53	72	74
05-01-17	74	75	73	66	70	68	68	68	66	64	57	50	60	54	63	56	54	53	73	79
06-01-17	74	75	73	67	69	66	69	69	66	64	59	53	61	54	63	56	54	53	73	76

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
07-01-17	75	76	72	68	70	66	69	68	66	63	58	57	60	54	63	56	54	53	73	69
08-01-17	74	75	71	69	68	66	66	66	64	61	55	50	60	53	64	56	54	53	70	73
09-01-17	75	75	73	67	70	66	65	64	66	62	57	49	60	54	62	55	54	53	73	79
10-01-17	76	77	75	67	71	66	66	67	66	63	60	52	64	61	63	57	54	53	72	71
11-01-17	76	76	73	67	70	66	68	68	66	63	57	51	64	64	63	57	54	53	73	67
12-01-17	74	75	73	67	70	66	68	67	66	62	59	52	64	65	66	56	53	53	73	66
13-01-17	74	75	73	67	70	67	71	70	67	63	56	51	61	54	67	57	54	53	72	69
14-01-17	74	73	72	68	69	67	65	68	66	62	59	51	61	55	69	56	54	53	72	
15-01-17	75	74	71	70	67	64	68	69	64	60	56	49	59	53	60	56	54	53	71	
16-01-17	77	78	73	67	71	65	71	71	66	62	57	52	61	53	66	56	54	53	74	
17-01-17	76	78	73	67	72	67	69	70	66	62	60	52	61	53	65	56	54	53	73	
18-01-17			73	67	72	67	69	69	66	61	58	51	61	54	69	56	54	53	73	
19-01-17			73	67	71	68	68	69	66	61	57	51	61	55	68	56	54	53	73	
20-01-17	77	77	73	68	70	68	68	67	66	62	61	54	61	55	68	56	53	53	73	
21-01-17			73	68	69	67	68	67	66	62	62	54	60	54	67	56	54	53	73	
22-01-17			71	69	68	66	68	67	64	60	54	50	58	54	61	56	54	53	72	
23-01-17			73	66	70	63	71	71	66	61	56	51	59	53	69	56	55	53	73	
24-01-17	75	74	73	67	71	68	69	67	66	62	57	52	61	54	68	56	54	53	73	
25-01-17	73	72	73	67	71	68	68	68	66	62	57	56	61	54	67	56	54	53	74	
26-01-17	73	72	71	68	69	67	69	69	63	61	57	55	57	52	61	57	54	53	74	
27-01-17			73	67	72	63	69	70	66	61	57	56	61	52	69	57	54	53	74	
28-01-17			72	69	70	68	69	67	65	61	56	54	61	54	65	58	54	53	73	
29-01-17	73		71	69	70	67	66	66	64	60	54	51	58	54	61	56	54	53	72	

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
30-01-17	75	77	73	67	71	67	68	65	66	61	57	55	60	54	65	56	54	53	75	
31-01-17	76	76	73	67	72	67	68	67	64	61	57	51	60	54	64	56	54	53	73	
01-02-17	76	75	73	67	70	68	65	66	66	63	56	51	59	54	64	56	54	53	74	
02-02-17	77	75	73	67	71	67	66	67	66	64	57	52	61	53	65	56	54	53	75	
03-02-17	77	77	73	68	71	69	68	67	66	62	56	51	61	54	64	56	54	53	78	
04-02-17	73	77	73	67	70	68	67	67	66	63	60	54	62	54	63	56	54	53	75	
05-02-17	76	75	72	69	70	68	66	67	64	61	57	51	60	52	61	56	54	53	73	
06-02-17	76	75	73	67	71	68	65	64	66	62	56	51	61	52	64	56	54	53	75	
07-02-17	72	75	73	67	69	67	67	67	66	63	56	52	61	53	65	56	54	53	74	
08-02-17	75	73	73	67	71	67	66	67	66	64	58	54	61	53	66	56	54	53	75	
09-02-17	74	74	73	68	71	69	65	65	66	62	58	52	61	53	65	56	54	53	74	
10-02-17	71	71	74	67	71	69	66	66	66	62	57	50	61	54	65	56	54	53	73	
11-02-17	72	77	72	68	71	69	69	68	65	64	56	51	61	54	64	56	54	53	67	65
12-02-17	77	74	72	69	72	69	67	67	63	60	54	50	59	53	61	56	54	53	69	66
13-02-17	76	74	73	67	73	69	72	67	67	61	56	50	61	53	65	56	54	53	71	
14-02-17	75	74	73	67	75	68	68	70	66	62	56	50	61	55	66	56	54	53	72	
15-02-17	73	72	73	67	72	66	65	67	66	62	57	52	61	54	66	61	54	53	72	
16-02-17	75	72	73	67	71	68	67	65	66	61	58	57	61	54	66	57	54	53	72	
17-02-17	72	72	73	68	71	68	67	67	66	61	57	51	63	68	66	57	54	53	72	
18-02-17	69	69	72	68	72	68	66	65	65	61	57	51	61	55	65	56	54	53	69	
19-02-17	72	71	71	69	73	68	66	65	63	61	55	51	59	54	61	56	55	53	71	
20-02-17	73	72	73	67	73	68	66	66	66	61	57	49	61	53	65	56	54	53	72	
21-02-17	71	72	72	67	70	67	68	67	66	61	59	51	60	53	65	56	54	53		

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
22-02-17	73	72	73	67	73	66	71	69	66	61	61	54	61	52	66	56	54	53	69	66
23-02-17	74	72	73	67	70	68	68	70	66	62	57	57	61	53	66	58	54	53	69	63
24-02-17	76	76	72	68	70	68	70	66	65	61	58	52	59	54	65	56	54	53	67	59
25-02-17	76	77	72	68	71	67	67	66	65	61	62	59	60	55	65	57	55	54	67	60
26-02-17	77	76	71	69	70	67	69	70	63	60	61	56	57	53	61	57	54	53	66	60
27-02-17	76	76	73	67	70	67	69	67	66	61	56	52	60	53	65	56	54	53	69	60
28-02-17	75	76	73	67	66	65	67	66	67	62	60	54	60	54	65	57	54	53	69	60
01-03-17	73	72	73	67	70	67	67	67	66	62	57	53	60	55	65	56	55	53	69	60
02-03-17	72	73	73	67	70	67	64	65	66	62	60	56	61	54	65	57	54	53	68	60
03-03-17	75	74	73	67	72	68	65	66	66	62	56	56	61	53	66	56	54	53	69	61
04-03-17	74	74	72	68	71	68	66	67	65	62	59	55	61	53	66	57	54	53	69	60
05-03-17	75	74	69	70	71	68	64	64	63	60	57	52	60	52	62	57	54	53	67	59
06-03-17	75	73	72	67	69	67	67	66	66	62	57	54	61	53	65	56	54	53	69	60
07-03-17	75	75	70	68	71	68	67	66	66	62	57	52	61	58	66	56	54	53	69	60
08-03-17	74	74	71	65	73	68	68	66	66	62	57	52	68	57	66	56	54	53	69	60
09-03-17	74	75	71	64	71	68	67	67	66	62	58	52	61	54	66	57	54	53	69	59
10-03-17	75	75	71	67	72	68	67	65	67	61	58	52	61	54	67	56	54	53	70	60
11-03-17	74	74	69	65	70	68	64	66	66	61	62	55	61	54	66	57	55	53	69	60
12-03-17	74	75	68	67	71	68	68	65	64	60	60	55	59	53	61	56	54	53	67	60
13-03-17	73	73	66	65	71	68	64	65	61	59	55	50	56	52	59	55	54	53	65	59
14-03-17	71	71	69	63	73	67	68	65	67	61	57	51	60	53	65	56	54	53	69	59
15-03-17	71	70	70	64	74	68	70	66	66	62	56	52	61	54	69	58	54	53	69	60
16-03-17	73	72	70	64	71	68	70	69	66	62	58	51	61	54	64	57	54	53	69	60

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
17-03-17	71	72	71	65	71	67	70	70	66	61	62	55	60	54	64	57	54	53	69	60
18-03-17	73	72	70	66	72	68	68	69	65	61	60	54	60	54	63	57	54	53	68	60
19-03-17	70	70	68	67	74	68	67	67	64	60	59	54	59	53	64	57	54	53	67	60
20-03-17	69	69	71	64	71	67	63	64	66	61	58	50	61	53	65	56	54	53	69	60
21-03-17	69	70	71	65	72	67	66	65	66	61	58	52	61	54	65	56	54	53	69	60
22-03-17	77	73	71	65	73	68	67	65	66	61	59	51	61	54	66	56	54	53	69	60
23-03-17		78	71	65	71	68	69	67	66	62	60	53	61	54	66	56	54	53	69	60
24-03-17	74	73	71	66	66	65	69	69	66	61	60	55	61	55	66	56	54	53	69	60
25-03-17	75	73	70	67	70	63	64	67	65	61	62	52	60	55	65	56	54	53	68	60
26-03-17	77	78	69	68	71	68	68	68	64	60	60	50	59	53	64	56	54	53	66	60
27-03-17	78	77	70	65	69	68	67	67	66	61	59	54	61	54	64	56	55	53	69	58
28-03-17	79	78	69	65	70	68	66	65	66	61	59	54	61	54	65	56	54	54	67	60
29-03-17	75	75	72	64	71	68	64	65	67	61	60	56	61	54	66	56	54	53	70	61
30-03-17	76	77	72	65	71	68	71	68	67	61	60	57	60	53	66	57	54	53	69	60
31-03-17	75	76	72	66	71	68	69	68	66	61	59	53	59	54	66	57	55	53	69	61
01-04-17	71	72	70	69	71	68	71	70	66	62	63	58	60	54	66	57	63	54	69	61
02-04-17	70	71	68	67	72	69	68	70	64	60	58	51	58	53	60	57	63	54	69	60
03-04-17	69	71	72	65	69	67	70	71	66	61	60	51	61	53	65	56	63	55	69	60
04-04-17	69	69	70	67	72	67	69	72	67	61	60	52	61	55	65	57	62	53	69	60
05-04-17	67	68	72	65	71	68	72	72	66	61	60	52	61	54	66	57	63	55	69	59
06-04-17	70	72	71	65	72	68	69	70	69	68	61	55	60	54	67	59	62	55	70	60
07-04-17	74	70	72	66	75	69	70	72	69	69	60	53	60	53	65	57	62	55	68	58
08-04-17	72	71	70	67	73	67	70	70	68	68	61	53	59	54	65	57	63	57	70	60

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
09-04-17	71	69	70	68	74	68	68	69	69	67	58	53	58	54	64	57	64	56	69	59
10-04-17	71	71	71	65	73	67	71	70	67	67	60	52	59	53	66	57	63	54	69	59
11-04-17	73	71	72	66	74	70	70	70	69	67	61	53	60	54	65	57	64	56	70	60
12-04-17	70	69	72	65	74	68	70	71	69	69	60	53	60	54	66	57	63	55	70	59
13-04-17	69	69	71	66	71	67	71	70	69	69	60	55	60	54	65	58	64	56	69	59
14-04-17	73	74	70	67	72	67	75	74	69	69	62	57	60	55	65	57	61	57	67	60
15-04-17	70	69	70	66	73	66	73	72	69	68	61	55	60	54	65	57	63	57	69	60
16-04-17	70	71	69	67	71	68	74	74	69	68	59	52	58	53	64	57	63	56	69	60
17-04-17	68	69	71	65	69	67	73	73	67	67	59	51	60	53	65	57	63	56	69	60
18-04-17	69	69	71	65	73	67	74	72	69	67	59	53	60	53	66	57	63	55	70	61
19-04-17	69	69	71	66	74	68	71	71	69	69	59	52	60	54	66	57	62	54	68	61
20-04-17	73	71	71	65	72	68	69	69	69	68	60	56	61	55	65	57	63	57	69	62
21-04-17	70	70	72	66	71	68	71	70	70	69	59	57	61	54	66	57	60	58	72	74
22-04-17	74	72	71	66	71	68	68	68	69	68	62	59	60	54	65	57	63	57	72	
23-04-17	70	70	69	68	70	67	71	70	69	68	59	53	59	54	64	57	62	56	73	
24-04-17	74	74	71	66	69	66	70	68	67	68	61	58	60	53	65	57	64	56	73	
25-04-17	72	74	71	66	72	67	69	67	69	67	60	57	61	54	65	57	63	54	74	
26-04-17	75	76	71	65	73	66	68	66	69	69	60	53	60	54	65	57	63	56	74	
27-04-17	71	71	71	66	73	69	66	67	69	69	60	54	61	54	66	58	63	58	74	
28-04-17	74	72	72	66	71	68	67	66	69	69	60	55	61	53	65	58	61	57	73	
29-04-17	73	74	70	66	70	67	67	68		69	60	56	60	56	65	58	64	57	72	
30-04-17	72	70	68	68	69	67	65	65	68	68	58	54	59	55	64	57	63	58	75	
01-05-17	70	69	69	67	70	66	66	66	66	66	57	53	57	52	60	56	63	59	73	

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
02-05-17	73	72	71	65	71	66	65	66	68	66	59	51	60	53	63	56	63	57	74	
03-05-17	72	75	71	65	72	68	64	64	69	68	60	53	60	54	63	56	64	58	75	
04-05-17	73	74	71	67	71	66	64	65	69	69	60	54	60	54	66	56	64	58	78	
05-05-17	71	72	71	66	72	67	64	63	69	68	60	53	59	54	65	57	61	56	75	
06-05-17	75	72	70	67	72	68	64	64	69	68	59	52	60	55	62	57	61	57	73	
07-05-17	74	72	68	67	72	68	65	64	68	68	57	52	59	54	62	56	63	59	75	
08-05-17	74	75	70	65	70	67	67	64	66	67	57	54	60	54	63	56	63	59	74	
09-05-17	69	71	71	65	72	67	65	64	68	66	57	53	60	55	62	56	63	58	75	
10-05-17	70	72	70	66	71	68	64	65	69	68	59	55	59	53	62	56	63	56	74	
11-05-17	74	73	72	66	72	67	68	67	69	68	59	57	59	54	63	57	64	57	73	
12-05-17	74	76	71	67	72	68	67	70	68	68	61	57		65	63	58	61	55	73	66
13-05-17	72	74	70	66	71	67	67	66	69	69	59	59	65		62	57	63	54	72	69
14-05-17	72	72	69	68	71	68	68	69			57	55	59	57	61	56	63	55	72	
15-05-17	71	76	71	66	69	67	71	69			60	51	60	67	64	56	62	55	71	
16-05-17	70	71	71	66	71	67	70	71			61	55	59	63	62	56	63	56	74	
17-05-17	76		70	66	72	68	70	70			61	55	60	64	62	57	62	55	73	
18-05-17	72		70	66	71	67	71	71			61	55	60	63	62	56	63	57	73	
19-05-17	75	73	70	66	71	68	67	68			59	53	61	63	63	57	62	56	73	
20-05-17	74	74	70	66	70	68	70	67			58	56	60	55	62	57	63	56	73	
21-05-17	70	70	68	67	70	68	69	70			57	55	59	56	60	56	64	57	73	
22-05-17	73	73	70	66	69	67	74	70			59	52	60	54	63	56	63	57	72	
23-05-17	72	71	71	65	71	67	68	70			61	55	60	54	63	57	60	56	73	
24-05-17	73	73	70	66	70	68	70	69			61	54	60	53	63	57	62	56	73	

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-05-17	73	72	71	65	72	68	70	72			59	55	60	53	63	57	61	57	74	
26-05-17	70	71	70	66	70	68	70	69			60	56	60	55	63	56	60	57	73	
27-05-17	73	71	70	66	71	68	68	69			59	52	60	54	62	56	62	56	69	61
28-05-17	72	72	69	68	71	68	69	69	64	59	61	55	59	54	62	56	62	57	70	61
29-05-17	71	73	71	68	69	67	71	71	66	60	61	58	61	55	64	57	63	56	69	62
30-05-17	71	71	71	68	71	67	69	70	66	62	62	56	61	55	64	57	63	56	69	60
31-05-17	73	72	71	66	71	67	65	67	66	62	61	58	60	54	63	57	63	57	69	61
01-06-17	73	72	71	66	72	67	67	67	66	60	62	57	59	53	64	57	55	54	68	61
02-06-17	76	72	71	66	73	67	70	69	63	56	63	58	59	52	63	57	55	54	68	61
03-06-17	75	73	73	68	72	66	69	69	63	57	60	59	61	53	66	58	54	54	68	60
04-06-17	70	71	71	68	70	67	70	69	62	56	58	56	59	53	64	60	54	54	67	60
05-06-17	75	74	71	67	67	65	72	73	64	55	60	56	60	53	65	58	54	54	69	61
06-06-17	70	73	72	67	69	66	71	70	64	56	61	54	61	54	64	57	54	54	68	61
07-06-17	69	67	73	69	70	66	70	71	64	55	61	55	60	54	65	58	64	55	68	60
08-06-17	71	71	72	67	70	67	66	66	62	57	60	57	60	56	64	58	62	57	68	61
09-06-17	74	73	72	68	70	68	66	64	63	56	61	60	61	57	64	62	63	56	69	63
10-06-17	74	74	71	68	69	68	64	64	62	56	61	59	61	61	63	64	62	56	68	63
11-06-17	73	72	70	68	68	66	66	67	61	56	62	55	63	53	62	62	61	56	67	61
12-06-17	70	69	72	69	72	64	67	65	61	56	60	57	61	55	64	63	61	56	70	61
13-06-17	74	73	72	67	73	68	67	60	61	56	60	54	61	54	64	64	61	56	69	61
14-06-17	73	73	72	67	72	68	71	71	60	56	62	56	61	55	63	63	60	56	69	61
15-06-17	74	73	72	67	73	68	70	70	60	56	61	54	61	55	64	64	60	56	69	61
16-06-17	73	72	73	67	73	68			61	56	62	54	61	55	64	64	61	56	69	62

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
17-06-17	70	72	71	68	72	67	75	74	61	56	63	54	61	54	63	63	61	56	69	62
18-06-17	74	73	69	69	70	67	73	71	61	55	62	57	59	54	62	61	61	55	67	61
19-06-17	75	77	72	67	72	67	71	70	62	56	63	53	61	54	64	62	62	56	70	61
20-06-17	74	76	72	70	74	68	71	70	62	56	62	56	62	56	64	63	62	56	69	61
21-06-17	72	72	74	72	74	69	72	74	61	57	62	58	62	56	65	62	61	57	70	61
22-06-17	69	71	74	71	75	70	76	74	59	56	62	54	62	56	65	67	59	56	71	61
23-06-17	70	70	72	68	73	71	72	71	61	55	62	55	61	59	64	67	61	55	70	62
24-06-17	71	74	71	68	76	72		74	67	56	61	56	61	54	65	66	67	56	69	61
25-06-17	72	72	72	69	69	70	72	72	62	56	63	58	60	55	64	66	62	56	69	67
26-06-17	73	74	72	68	72	67	74	74	61	56	61	55	61	53	65	67	61	56	68	62
27-06-17	74	75			74	71	71	72	63	56	63	58	62	58	66	68	63	56	70	63
28-06-17	71	71			76	74	71	72	60	56	63	60	64	60	66	68	60	56	67	61
29-06-17	69	70	75	71	76	70	70	70	59	56	62	60	63	58	66	66	59	56	70	61
30-06-17	69	72	74	71	76		75	72	63	56	61	58	63	57	65	67	63	56	69	61
01-07-17	72	72	72	71	75		76	74	61	59	62	60	62	60	65	65	55	54	71	62
02-07-17	71	72	71	70	72	73	73	74	57	58	60	62	62	60	63	64	53	53	70	60
03-07-17	70	70	72	67	73	67	75	75	59	58	60	59	62	56	64	63	54	53	70	63
04-07-17	70	70	73	69	73	68	73	72	54	53	59	59	62	56	64	62	54	53	70	61
05-07-17	68	68	73	68	73	69	68	69	59	59	59	55	62	55	64	63	55	54	69	60
06-07-17	68	68	73	68	74	68	73	72	67	61	59	53	62	55	65	61	54	53	67	60
07-07-17	72	73	72	68	73	67	73	72	67	61	59	53	62	55	64	59	54	53	70	63
08-07-17	71	71	71	68	71	68	69	69	66	60	59	52	61	55	64	61	54	53	70	62
09-07-17	69	69	69	69	72	67	69	70	64	59	57	55	60	54	62	59	54	53	70	62

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
10-07-17	69	71	72	67	72	65	69	69	67	60	59	51	62	54	66	61	54	53	71	63
11-07-17	72	74	73	67	74	69	70	68	67	60	59	53	62	56	65	63	54	53	70	62
12-07-17	70	70	73	69	76	72	71	69	67	60	60	53	62	56	66	62	54	53	70	77
13-07-17	70	69	75	70	75	73	68	70	67	61	60	56	62	57	66	63	53	53	71	72
14-07-17	71	70	73	71	75		70	70	68	62	61	63	63	57	66	64	53	53	76	70
15-07-17	70	70	74	70	77	73	71	72	68	62	62	64	64	56	67	63	53	53	72	70
16-07-17	71	71	70	71	72	69	73	72	65	60	58	61	61	55	66	64	54	53	74	70
17-07-17	73	74	75	70	73	68	71	71	68	62	63	62	64	60	69	68	52	53	72	72
18-07-17	73	73	75	69	73	69	69	69	68	62	63	63	64	61	67	66	52	53	69	70
19-07-17	72	72	74	68	72	68	73	71	67	61	60	58	63	57	67	65	53	53	73	71
20-07-17	72	73	74	71	75	69	70	74	67	62	60	55	64	57	67	63	53	52	70	74
21-07-17	71	73		73	76	72	71	72	67	62	61	57	63	57	68	64	53	53	71	72
22-07-17	73	75	74	73	77	73	74	73	67	62	60	62	63	59	68	66	53	53	74	73
23-07-17	71	73	72	73	76	73	74	74	65	60	57	59	60	56		65	53	53	74	74
24-07-17	70	69	73	72	75	71	74	73	67	60	59	53	62	56		65	53	53	74	73
25-07-17	69	69	74	69	73	70	71	71	67	60	58	54	62	56	69	63	54	53	71	71
26-07-17	67	68	73	69	74	71	72	72	67	60	59	54	62	55	67	62	53	53	72	72
27-07-17	68	68	74	70	73	70	72	72	67	61	58	54	62	56	67	62	53	53	72	72
28-07-17	68	69	74	69	73	70	75	73	67	61	61	53	62	55	66	62	54	53	75	73
29-07-17	67	69	73	69	74	70	74	73	66	60	58	53	62	56	66	61	55	53	74	73
30-07-17	67	69	71	70	74	68	73	73	64	59	60	51	60	54	65	60	54	53	73	73
31-07-17	71	73	74	68	73	68	72	74	67	60	58	51	62	54	66	60	54	53	72	73
01-08-17	67	69	73	68	74	69	72	69	67	61	58	53	62	55	67	59	54	53	72	69

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
02-08-17	68	70	74	70	75	70	72	71	67	60	58	53	62	56	67	61	54	53	72	71
03-08-17	70	69	74	69	75	70	71	72	67	61	61	55	62	56	68	61	53	53	71	72
04-08-17	70	70	74	68	75	71	70	70	66	60	59	52	62	55	66	61	55	53	70	70
05-08-17	73	70	72	68	74	70	69	73	66	60	58	53	62	55	66	60	54	53	69	73
06-08-17	73	71	70	69	72	68	69	70	64	59	57	54	61	54	66	59	59	53	69	70
07-08-17	73	71	72	67	73	67	72	68	66	59	60	53	61	54	65	60	54	53	72	68
08-08-17	73	72	73	67	74	69	67	69	66	60	60	52	62	54	65	62	54	53	68	69
09-08-17	70	70	73	67	74	70	69	71	66	60	58	52	61	54	65	62	54	53	71	62
10-08-17	70	71	74	68	74	69	71	71	66	60	59	52	62	56	66	62	54	53	71	63
11-08-17	72	71	73	67	75	70	71	70	66	60	59	53	62	55	66	63	54	53	71	72
12-08-17	70	71	72	69	74	70	71	71	65	61	59	54	62	55	65	60	54	53	70	63
13-08-17	71	70	71	71	74	70	72	72	64	60	57	55	61	56	64	62	53	52	69	63
14-08-17	70	71	74	68	73	68	70	71	67	60	61	56	64	57	66	65	53	52	72	64
15-08-17	71	72	71	68	69	67	72	72	64	59	58	55	61	53	63	64	53	53	69	
16-08-17	74	71	73	66	75	67	69	68	66	60	58	54	62	54	65	65	54	53	74	
17-08-17	72	71	72	66	75	69	71	72	66	61	58	54	63	55	65	64	54	53	70	63
18-08-17	70	71	73	67	75	69	70	69	66	60	58	52	61	54	65	61	54	54	71	64
19-08-17	70	70	73	67	73	70	69	69	67	61	62	56	63	55	66	63	53	53	72	64
20-08-17	73	74	74	69	72	69	71	71	66	59	63	57	68	56	65	67	57	55		
21-08-17	71	72	74	68	71	67	71	68	66	61	58	58	61	57	65	66	53	53	77	
22-08-17	73	72	73	66	72	68	70	73	66	61	58	55	62	55	64	65	54	53	72	71
23-08-17	71	71	73	67	72	68	70	70	66	61	59	53	61	54	65	67	54	53	72	64
24-08-17	73	74	73	66	75	69	70	69	66	61	59	53	61	55	66	63	54	53	72	66

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-08-17	73	71	72	67	71	69	67	67	65	60	61	58	62	56	65	65	54	53	70	64
26-08-17	72	74	72	68	71	67	70	69	65	59	60	62	61	55	67	66	54	53	73	70
27-08-17	71	71	71	69	70	68	67	67	64	60	56	59	59	54	64	65	53	53	71	74
28-08-17	77	77	75	70	72	69	72	70	66	62	59	63	61	62	65	68	53	52	76	79
29-08-17	72	72	76	70		74	71	71	68	64	67	66	68	63	69	67	53	52		
30-08-17	71	72	72	68	67	64	72	72	65	61	58	60	61	56	67	66	53	53	73	69
31-08-17	70	72	73	68	69	64	71	72	66	61	58	57	63	56	69	67	54	53	73	72
01-09-17	71	71	73	68	68	63	71	72	65	61	58	54	62	55	69	66	53	53	71	64
02-09-17	70	70	71	69	67	63	71	71	64	60	55	54	61	54	66	66	54	53	70	63
03-09-17	72	71	71	71	66	63	72	73	64	59	57	54	61	57	66	66	53	53	75	62
04-09-17	71	74	72	68	68	63	71	71	65	60	57	54	61	53	66	65	54	53	71	71
05-09-17	73	71	71	68	68	63	71	72	64	60	57	55	62	56	64	63	54	53	72	64
06-09-17	74	74	73	68	69	63	71	72	65	60	57	55	62	53	64	62	54	53	71	64
07-09-17	72	74	73	67	71	64	67	69	65	61	56	55	61	54	64	62	54	53	71	64
08-09-17	73	73	73	67	69	64	69	69	65	60	57	55	61	54	64	63	54	53	71	64
09-09-17	73	74	72	67	68	65	70	71	65	60	57	53	60	53	63	64	54	53	71	65
10-09-17	73	74	70	69	66	63	68	68	63	59	53	52	59	53	62	64	54	53	70	65
11-09-17	75	73	73	66	68	64	68	67	65	59	57	51	60	53	64	63	55	53	73	65
12-09-17	73	73	72	67	69	66	69	70	65	59	57	52	60	54	63	63	54	53	71	64
13-09-17	74	73	73	69	65	67	71	71	65	61	56	58	61	58	64	68	54	53	71	67
14-09-17	72	72	73	68	66	61	71	70	65	59	59	55	61	54	64	65	61	57	73	65
15-09-17	72	72	74	69	66	63	71	72	65	60	57	56	61	58	64	65	64	64	72	64
16-09-17	72	73	72	68	67	63	73	74	66	60	58	56	61	56	65	63	65	64	73	68

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
17-09-17	73	73	70	70	66	62			63	59	54	56	60	54	62	62	65	63	70	70
18-09-17	73	74	73	67	72	65	72	74	65	59	56	51	61	54	65	63	65	64	71	69
19-09-17	74	75	75	67			68	62	66	61	62	58	63	58	66	65	65	64	73	66
20-09-17	72	73	75	69	68	74	63	61	66	62	64	64	63	60	69	67	64	64	63	68
21-09-17	76	76	74	66	68	64	72	66	65	60	57	52	61	54	65	64	64	63	75	65
22-09-17	77	77	73	67	68	65	73	72	65	60	56	52	61	55	64	63	65	64	71	70
23-09-17	75	75	72	67	67	65	72	73	64	60	56	52	60	54	57	58	65	64	71	66
24-09-17	71	73	70	68	67	64	72	73	62	59	54	52	59	54	54	52	65	64	69	65
25-09-17	69	70	72	66	70	65	68	71	65	60	57	51	60	53	57	51	65	64	72	64
26-09-17	73	72	73	66	70	65	72	72	64	60	56	52	61	54	56	52	65	64	71	65
27-09-17	71	71	73	66	70	66	72	70	65	60	56	52	60	54	56	52	65	64	72	65
28-09-17	71	70	73	67	71	66	70	69	65	60	58	53	60	54	58	53	65	64	72	65
29-09-17	72	71	74	68	71	66	72	70	65	60	57	53	60	55	57	53	65	64	72	66
30-09-17	71	71	71	68	67	64	68	69	62	60	54	53	59	53	54	53	65	64	70	70
01-10-17	69	68	70	70	67	63	68	67	62	59	56	50	59	53	56	50	65	64	68	65
02-10-17	69	69	70	67	67	64	73	69	63	59	57	52	58	52	57	52	66	65	69	65
03-10-17	71	71	73	67	70	65	73	71	64	59	56	51	60	53	56	51	65	64	71	64
04-10-17	74	73	73	67	69	66	73	74	64	59	58	53	60	53	58	53	66	64	71	66
05-10-17	70	70	74	66	69	66	72	72	64	59	57	56	60	54	57	56	66	65	71	65
06-10-17	69	69	73	67	70	66	72	72	64	59	59	51	62	54	59	51	65	64	73	65
07-10-17	70	69	73	68	70	66	73	74	64	59	60	54	61	54	60	54	65	63	72	68
08-10-17	69	70	70	69	68	65	75	73	62	59	55	54	60	54	55	54	65	63	69	70
09-10-17	68	68	73	67	69	65	72	71	65	59	58	54	60	53	58	54	65	64	73	64

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
10-10-17	75	71	74	67	70	66	71	73	65	60	58	52	62	54	58	52	65	65	73	65
11-10-17	73	72	73	67	70	67	69	72	65	60	56	51	61	54	56	51	65	64	71	70
12-10-17	73	74	73	67	70	66	70	72	65	60	56	51	62	54	65	59	64	60	71	72
13-10-17	73	76	73	67	70	67	70	72	65	60	55	50	61	54	63	57	65	64	72	63
14-10-17	76	77	72	68	71	66	67	70	65	59	57	50	62	55	64	57	62	59	71	63
15-10-17	74	73	70	69	68	66	69	70	63	59	55	49	61	55	62	56	65	64		
16-10-17	76	74	73	67	70	66	69	70	65	60	56	54	61	56	64	57	65	64	77	
17-10-17	73	74	72	67	69	65	70	70	65	60	55	50	61	55	64	57	65	64	70	64
18-10-17	75	75	72	67	69	66	70	69	65	61	56	50	61	55	63	57	62	59	69	63
19-10-17	70	70	70	69	66	67	73	73	62	60	56	57	58	56	63	59	65	64	70	65
20-10-17	72	73	70	70	67	65	72	73	63	59	53	50	58	55	61	58	63	61	69	64
21-10-17	70	70	71	68	66	64	71	68	63	59	52	48	59	53	62	58	65	64	69	63
22-10-17	71	72	70	69	66	62	69	69	62	59	55	48	58	52	60	56	65	64	68	62
23-10-17	75	76	72	67	69	64	69	69	64	60	55	49	60	52	63	55	65	64	70	63
24-10-17	74	73	72	67	70	66	73	71	64	60	56	50	60	53	63	56	62	59	70	63
25-10-17	70	72	72	67	69	67	69	70	64	60	55	49	60	54	63	56	66	64	70	63
26-10-17	71	72	72	67	69	66	69	68	64	60	56	50	61	54	63	57	66	64	70	63
27-10-17	72	71	72	68	70	67	68	69	64	60	56	50	59	55	63	56	65	64	70	63
28-10-17	70	71	71	68	69	67	70	69	64	60	56	50	60	54	62	56	65	64	70	62
29-10-17	69	68	70	69	67	66	73	73	62	59	52	48	59	53	60	56	66	64	68	62
30-10-17	71	70	72	67	70	66	71	71	65	59	57	49	60	53	63	56	65	64	70	63
31-10-17	72	70	72	67	70	66	71	70	65	59	56	50	60	54	64	56	65	64	70	63
01-11-17	70	70	72	68	70	67	71	70	64	60	58	50	60	54	63	56	65	64	70	63

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
02-11-17	72	72	72	68	70	67	73	72	64	60	56	50	60	54	64	56	65	64	70	64
03-11-17	74	73	72	68	70	67	70	70	64	60	59	50	61	54	64	56	65	64	70	63
04-11-17	75	74	71	68	70	67	70	72	64	60	56	50	61	54	63	57	65	64	70	63
05-11-17	75	75	70	69	67	66	70	72	62	58	54	51	58	52	61	56	65	64	68	63
06-11-17	76	74	73	67	71	67	74	71	64	59	56	49	60	53	63	56	65	63	71	64
07-11-17	73	74	72	67	70	67	71	71	64	60	57	50	60	55	63	56	66	64	70	63
08-11-17	74	74	72	67	70	67	72	71	64	60	58	51	61	54	63	57	65	64	71	63
09-11-17	72	71	72	67	71	67	71	70	64	60	56	51	61	55	63	57	65	63	70	63
10-11-17	70	69	73	68	71	67	68	69	64	60	57	51	61	57	63	56	65	64	71	64
11-11-17	72	72	71	68	69	68	69	70	64	60	56	51	61	54	62	56	65	64	70	63
12-11-17	73	70	71	69	66	66	72	70	62	59	54	51	58	53	61	56	65	64	68	63
13-11-17	73	72	72	67	70	66	70	68	64	60	56	49	60	53	63	56	65	64	71	64
14-11-17	73	71	73	67	71	67	65	66	64	61	56	51	61	55	63	56	65	64	71	64
15-11-17	73	74	73	67	71	68	69	69	65	60	56	51	61	54	63	56	65	64	70	63
16-11-17	68	69	73	67	71	67	70	68	64	60	56	51	61	53	63	57	65	64	70	63
17-11-17	73	72	73	67	71	67	69	71	65	59	56	50	61	54	63	56	65	64	71	63
18-11-17	74	73	72	68	71	67	69	70	65	59	56	50	61	55	63	57	65	64	71	64
19-11-17	74	74	71	69	68	67	71	69	62	58	54	52	59	53	61	57	65	64	69	63
20-11-17	76	74	73	67	71	66	65	69	65	59	56	50	60	54	63	56	64	63	71	63
21-11-17	74	75	72	67	71	68	69	68	65	60	56	52	62	54	63	56	65	64	71	63
22-11-17	73	72	72	67	71	68	69	69	67	60	59	58	61	53	63	56	65	64	70	63
23-11-17	72	72	73	67	70	67	73	72	65	61	57	57	61	54	63	57	65	64	70	62
24-11-17	73	72	73	68	71	68	75	74	65	61	59	53	61	54	63	57	65	64	71	63

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
25-11-17	73	74	72	68	69	67	73	72	64	60	55	54	60	54	63	57	65	64	69	63
26-11-17	71	72	70	69	67	67	72	72	63	59	53	51	59	53	61	57	65	64	69	62
27-11-17	71	71	73	67	70	67	76		65	60	56	49	60	53	63	56	65	64	70	63
28-11-17	73	74	73	67	70	67	72	72	66	61	56	51	60	53	63	57	65	64	70	63
29-11-17	73	73	73	67	71	67	73	71	66	60	56	51	60	54	63	57	65	64	71	63
30-11-17	76	76	73	68	70	67	75	74	66	60	57	50	59	54	64	56	65	64	70	62
01-12-17	72	75	72	67	70	67	70	71	66	60	58	51	61	54	63	57	65	64	69	62
02-12-17	72	72	72	68	71	68	70	70	65	60	57	52	60	54	63	58	65	64	71	63
03-12-17	71	73	70	69	68	66	69	69	64	59	54	50	59	53	62	58	65	64	68	62
04-12-17	69	67	73	68	70	65	71	73	66	60	57	51	60	54	64	57	65	64	71	63
05-12-17	67	67	75	68	69	66	71	73	66	60	60	54	63	56	64	58	65	64	70	63
06-12-17	71	68	74	67	70	66	69	64	66	60	57	52	61	55	64	60	64	64	71	63
07-12-17	75	76	74	67	71	67	75	72	66	60	59	50	62	55	65	57	64	64	71	62
08-12-17	75	75	73	67	71	67	70	69	66	60	57	50	62	53	64	57	65	64	71	63
09-12-17	70	70	72	67	69	68	72	73	65	60	56	51	60	52	63	57	65	63	71	63
10-12-17	72	70	71	68	67	67	71	72	64	59	60	55	60	53	62	58	65	63	69	62
11-12-17	71	72	72	67	71	67	69	71	66	60	57	49	60	54	65	58	64	63	71	63
12-12-17	74	73	73	68	72	67	72	68	66	61	56	51	60	54	64	57	65	64	71	63
13-12-17	68	68	73	67	72	68	70	70	66	61	57	51	60	54	64	57	65	64	71	63
14-12-17	68	70	73	67	71	68	71	70	67	61	56	50	63	54	64	57	65	64	70	63
15-12-17	67	69	72	67	72	67	69	69	66	60	57	52	62	54	64	58	65	64	71	63
16-12-17	69	68	72	68	71	68	69	69	66	60	57	56	61	54	65	58	65	64	70	63
17-12-17	69	69	71	69	67	67	73	71	64	60	54	51	59	55	62	58	65	64	69	63

Table 7: Ambient Noise Monitoring **Data of Mumbai for the year 2017**

Date	Acworth Hospital (S)		Ambassador Hotel (C)		Bisleri Andheri (I)		Bandra (C)		MPCB HQ (C)		LT Powai (I)		MM Kandivali (I)		Pepsico Chembur (R)		TMCO (C)		Vashp (S)	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
18-12-17	69	70	72	67	71	67	70	70	66	60	58	51	63	54	64	57	65	64	71	63
19-12-17	67	67	73	67	71	67	71	70	66	61	57	51	60	54	63	57	65	64	71	63
20-12-17	69	68	73	67	71	68	68	67	67	61	57	53	59	54	64	57	65	64	70	62
21-12-17	68	67	72	67	71	68	67	68	66	64	57	51	60	55	63	60	65	64	70	63
22-12-17	70	69	73	67	71	68	71	69	66	63	57	52	61	55	63	57	64	64	71	64
23-12-17	77	72	72	68	69	68	66	66	66	62	58	53	60	55	63	59	65	64	70	62
24-12-17	79	76	71	69	68	67	70	69	64	61	56	55	59	54	61	58	65	64	73	
25-12-17			71	68	68	67	69	69	64	60	55	54	59	54	62	56	65	64	74	
26-12-17	75		72	67	71	68	68	67	66	61	57	54	61	54	63	57	65	64	73	
27-12-17	71	72	72	67	72	68	62	62	66	61	57	51	60	55	63	57	65	64	69	61
28-12-17	75	74	72	67	71	68	63	64	66	62	58	52	62	55	64	57	65	64	70	61
29-12-17	69	70	72	67	71	68	67	65	66	62	60	53	61	54	63	57	65	64	69	62
30-12-17	76	73	72	68	71	68	70	70	66	62	57	57	60	54	67	58	65	64	69	60
31-12-17	75	76	71	69	68	68	69	71	64	61	56	51	60	55	61	57	65	64	69	61

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Status of Noise Level in Jaipur City

rspcb

Prepared By
RAJASTHAN STATE POLLUTION CONTROL BOARD

PREFACE

Rajasthan State Pollution Control Board acknowledges the efforts of all the Board Officials associated with this work for monitoring the noise level at different locations in Jaipur city as per the provisions of Noise Pollution (Regulation & Control) Rules, 2000. It would not have been possible to compile this report on Status of Noise Level in Jaipur City without their sincere support and efforts.

CONTRIBUTIONS

Overall Supervision	:	Sh. B.R.Chauhan, CSO
Co-ordinators	:	Sh. S.N.Tikkiwal, SSO
Report Preparation & Data Compilation	:	Ms Prasputita Nanda, JSO Dr. Vimal Poswal, JSO
Monitoring Team	:	Ms. Sheeba, SO, Dr. Manoj Meena, JSO, Ms. Prasputita Nanda, JSO, Dr. Vimal Poswal, JSO, Ms. Suman Jhajharia, JSO, Dr Sanjeev Kumar Sharma, JSO, Ms Vandana Chaturvedi, JSO, Dr. Narain Bhoot, JSO, Sh OP Shardul, JSO, Ms Prerna Lamba, JSO, Ms. Garima Mishra, JSO, Sh. Gaurav Singh, Intern.

Status of Noise Level in Jaipur City

Background:

In order to assess the impact of predominating Noise Level in Jaipur city, Noise Level Monitoring was conducted at 6 different locations in Jaipur City from September to November, 2017.

The Noise level monitoring was conducted day time (1100 hrs to 2200 hrs) and night time (2200 hrs onwards) for half hour interval at each location with sampling frequency of one second.

Monitoring Locations:

In order to maintain uniformity in monitoring, Residential, Commercial, and Silence zones were selected in respect of Noise Standards prescribed under the provisions of Noise Pollution (Regulation & Control) Rules, 2000. The monitoring network consisted of a total of 6 noise monitoring locations in Jaipur City.

Table 1

S. No.	Name of the monitoring locations in Jaipur City	Category of Area / Zone
1	Garden Behind Governor House, Civil Lines	Silence
2	Nagar Nigam Office, Patel Marg, Mansarovar	Residential
3	Science Park, Shastri Nagar	Residential
4	Gali No. 3, Raja Park	Commercial
5	Near Kotwali Thana, Chhoti Choupar	Commercial
6	Outside Outdoor of SDMH	Silence

Monitoring Results:

The comparative statement of noise level monitoring conducted in Jaipur City is as under:

Table 2

Comparative Statement of Noise Level in Leq dB(A) of Jaipur City												
Monitoring Period	Monitoring Location											
	Garden Behind Governor House, Civil Lines		Nagar Nigam Office, Patel Marg, Mansarovar		Science Park, Shastri Nagar		Gali No. 3, Raja Park		Near Kotwali Thana, Chhoti Choupar		Outside Outdoor of SDMH	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
September, 2017	61.6	57.4	55.0	54.0	72.0	63.4	71.4	70.0	74.1	68.6	69.3	62.6
October, 2017	62.7	56.6	59.1	52.2	72.1	63.6	70.3	60.9	71.6	62.1	82.3	79.6
November, 2017	60.1	56.5	64.4	61.8	74.2	58.1	73.1	72.7	77.5	70.5	71.5	64.8
December, 2017	63.4	54.8	68.7	63.5	76.2	60.1	67.2	67.8	79.6	73.7	70.5	64.4

Noise level Standards in Leq dB(A)

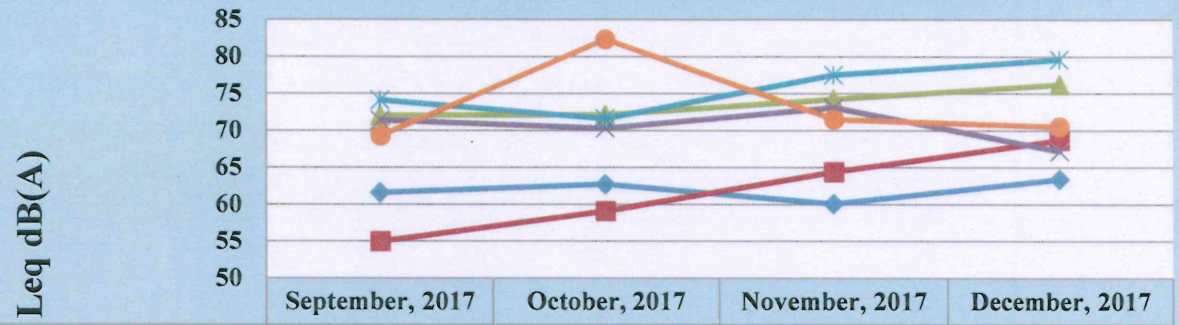
Category of Area / Zone	Day	Night
Silence	50.0	40.0
Residential	55.0	45.0
Commercial	65.0	55.0

Interpretation:

Comparison of Noise level of all monitoring locations from September to December, 2017 is at **Figure 1 & 2** and Comparison of Noise level of all monitoring locations from Day time to Night time is at **Figure 3 to Figure 6.**

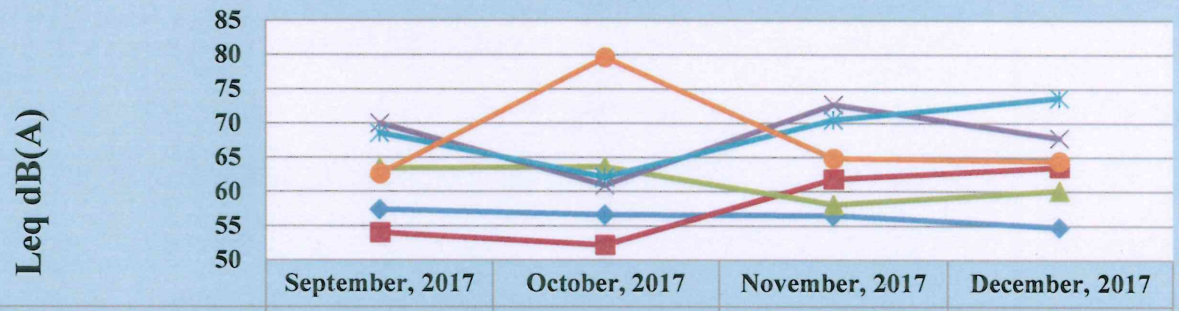
Status of Noise Level in Jaipur City

Fig. 1 - Noise Level during Day time from September to December in Jaipur City



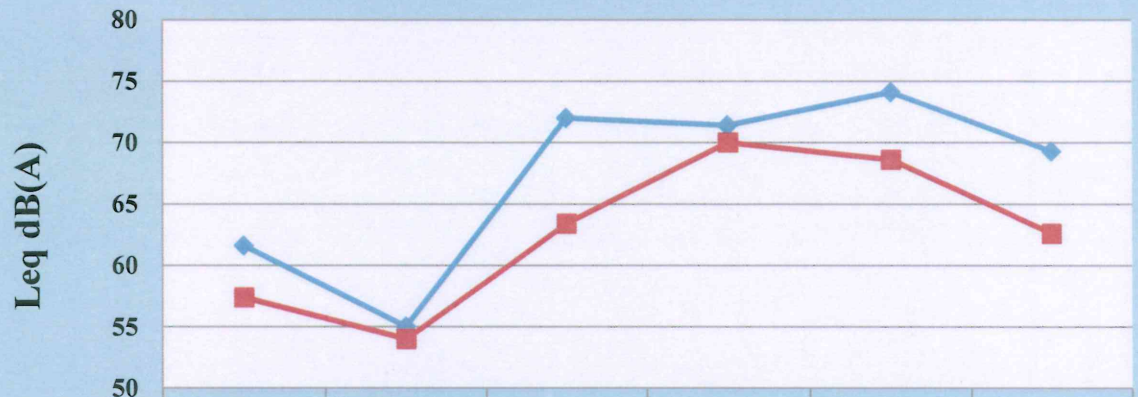
	September, 2017	October, 2017	November, 2017	December, 2017
Garden Behind Governor House, Civil Lines	61.6	62.7	60.1	63.4
Nagar Nigam Office, Patel Marg, Mansarovar	55.0	59.1	64.4	68.7
Science Park, Shastri Nagar	72.0	72.1	74.2	76.2
Gali No. 3, Raja Park	71.4	70.3	73.1	67.2
Near Kotwali Thana, Chhoti Choupar	74.1	71.6	77.5	79.6
Outside Outdoor of SDMH	69.3	82.3	71.5	70.5

Fig.2 - Noise Level during Night time from September to December in Jaipur City



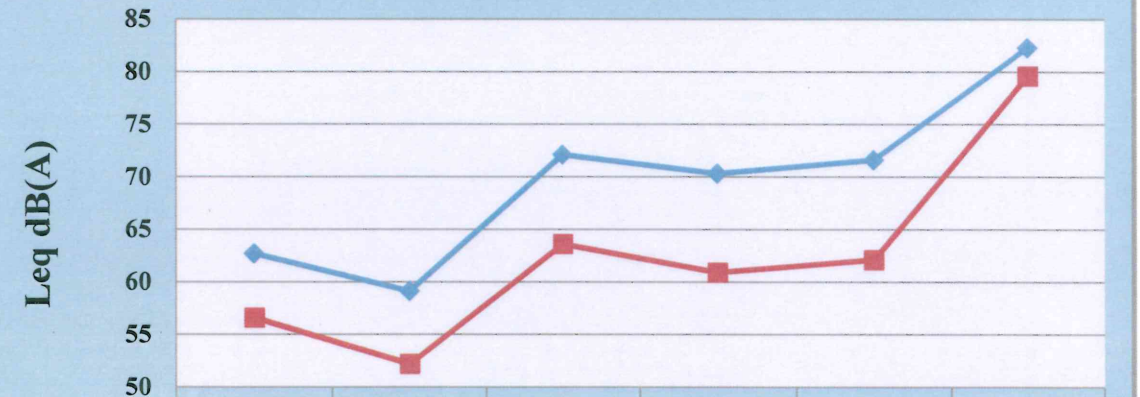
	September, 2017	October, 2017	November, 2017	December, 2017
Garden Behind Governor House, Civil Lines	57.4	56.6	56.5	54.8
Nagar Nigam Office, Patel Marg, Mansarovar	54.0	52.2	61.8	63.5
Science Park, Shastri Nagar	63.4	63.6	58.1	60.1
Gali No. 3, Raja Park	70.0	60.9	72.7	67.8
Near Kotwali Thana, Chhoti Choupar	68.6	62.1	70.5	73.7
Outside Outdoor of SDMH	62.6	79.6	64.8	64.4

Fig. 3 - Noise Level in Jaipur City during Day & Night time in September



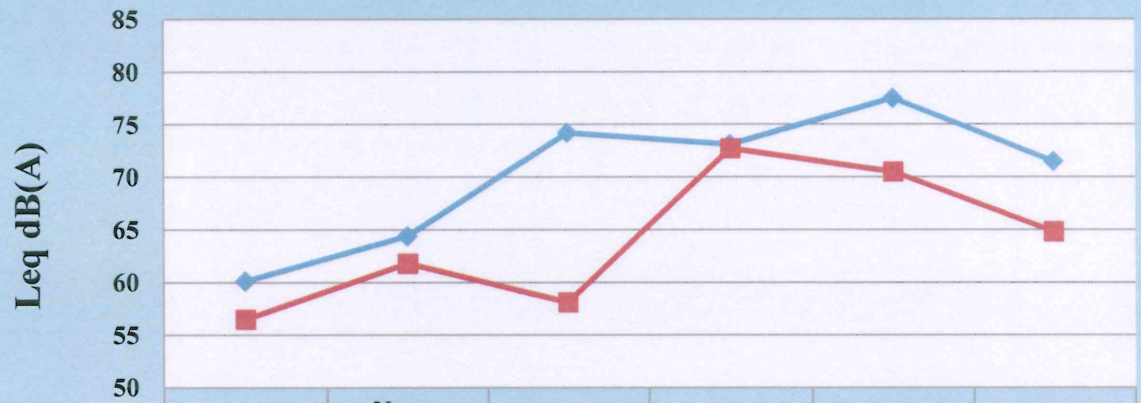
	Garden Behind Governor House, Civil Lines	Nagar Nigam Office, Patel Marg, Mansarovar	Science Park, Shastri Nagar	Gali No. 3, Raja Park	Near Kotwali Thana, Chhoti Choupar	Outside Outdoor of SDMH
Day Time	61.6	55.0	72.0	71.4	74.1	69.3
Night Time	57.4	54.0	63.4	70.0	68.6	62.6

Fig. 4 - Noise Level in Jaipur City during Day & Night time in October



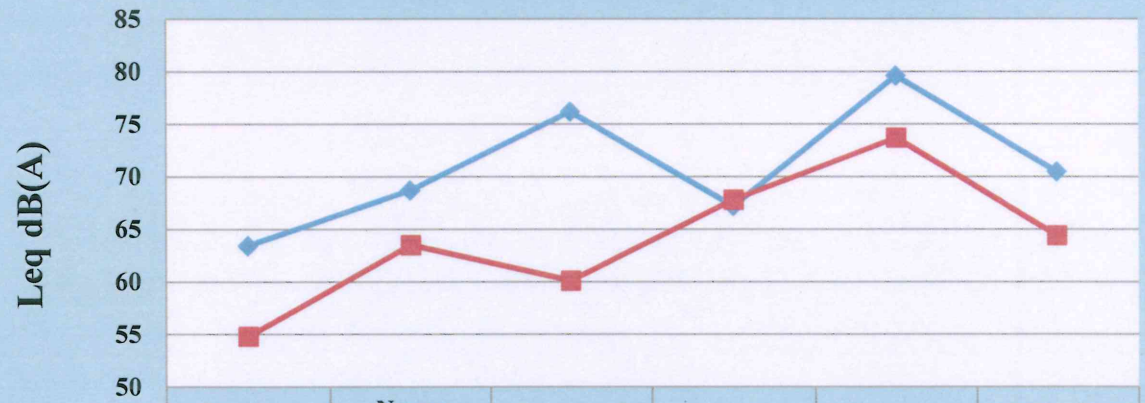
	Garden Behind Governor House, Civil Lines	Nagar Nigam Office, Patel Marg, Mansarovar	Science Park, Shastri Nagar	Gali No. 3, Raja Park	Near Kotwali Thana, Chhoti Choupar	Outside Outdoor of SDMH
Day Time	62.7	59.1	72.1	70.3	71.6	82.3
Night Time	56.6	52.2	63.6	60.9	62.1	79.6

Fig. 5 - Noise Level in Jaipur City during Day & Night time in November



	Garden Behind Governor House, Civil Lines	Nagar Nigam Office, Patel Marg, Mansarovar	Science Park, Shastri Nagar	Gali No. 3, Raja Park	Near Kotwali Thana, Chhoti Choupar	Outside Outdoor of SDMH
Day Time	60.1	64.4	74.2	73.1	77.5	71.5
Night Time	56.5	61.8	58.1	72.7	70.5	64.8

Fig. 6 - Noise Level in Jaipur City during Day & Night time in December



	Garden Behind Governor House, Civil Lines	Nagar Nigam Office, Patel Marg, Mansarovar	Science Park, Shastri Nagar	Gali No. 3, Raja Park	Near Kotwali Thana, Chhoti Choupar	Outside Outdoor of SDMH
Day Time	63.4	68.7	76.2	67.2	79.6	70.5
Night Time	54.8	63.5	60.1	67.8	73.7	64.4

Conclusion:

During the monitoring period, the concentration of Leq dB(A) has exceeded the prescribed standards both during day and night time except at Nagar Nigam Office, Patel Marg, Mansarovar during day time in September, 2017.

It has also been observed that there is no specific trend in data during the entire monitoring period i.e. from September to November at all monitoring locations except at Garden behind Governor House, Civil Lines during night time where the concentration of noise level has decreased from September to November. When the trend of noise level observed during day is compared to the noise level observed during night time, it is found that the concentration of noise level decreases from day time to night time at all locations except at Gali No. 3, Raja Park in December, 2017.

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Status of Noise Level In Jaipur City (January to June, 2021)

Rajasthan State Pollution Control Board

Foreword

Rajasthan State Pollution Control Board is entrusted with duties to enforce provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Noise Pollution (Regulation & Control) Rules, 2000, Authorization under the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016, Authorization under Bio-Medical Waste (Management and Handling) Rules, 2016 and Plastic Waste Management Rules, 2016. Measurement of noise is a very important step to prepare scientific action plan for control of noise pollution.

I am pleased to present the Rajasthan State Pollution Control Board the report on Status of Noise Level in Jaipur City from January to June, 2021 which acknowledges the efforts of all the Board Officials associated with this work for monitoring the noise level at different locations in Jaipur city as per the provisions of Noise Pollution (Regulation & Control) Rules, 2000. It would not have been possible to compile this report without their sincere support and efforts.

(Veenu Gupta)
Chairperson

Foreword

Noise pollution refers to sounds in the environment that are caused by human and that threaten the health or welfare of human or animal inhabitants. Rajasthan State Pollution Control Board shall collect, compile and publish technical and statistical data relating to noise pollution and measures devised for its effective prevention, control and abatement.Rajasthan State Pollution Control Board conducts study on Noise Level Monitoring in Jaipur City at 6 different locations throughout the year.

This report is a compilation of results and observations of the study conductedof Noise Level monitoring data of the Jaipur City from January to June, 2021.The data of previous year have also been incorporated so as to analyse the trend in noise levels on long term basis.

I sincerely acknowledge the effort of all officials associated with the work for monitoring of noise pollution levels. It would not have been possible to compile and complete this report on the issue without their sincere support and efforts.

(Anand Mohan)
Member Secretary

Background:

In order to assess the impact of predominating Noise Level in Jaipur city, Rajasthan State Pollution Control Board conducts study on Noise Level Monitoring in Jaipur City at 6 different locations throughout the year. This report is a compilation of results and observations of the study conducted from January to June, 2021.

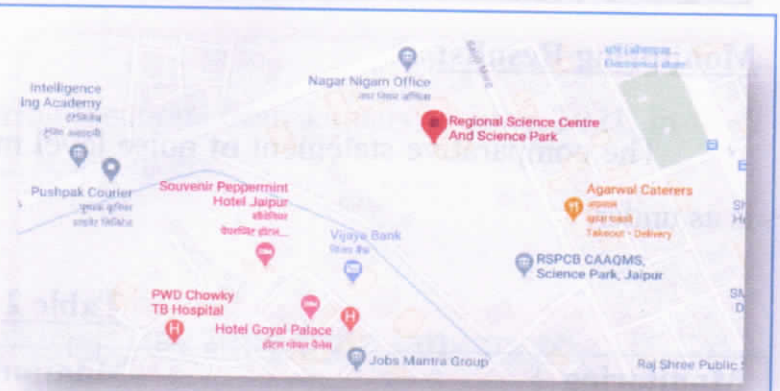
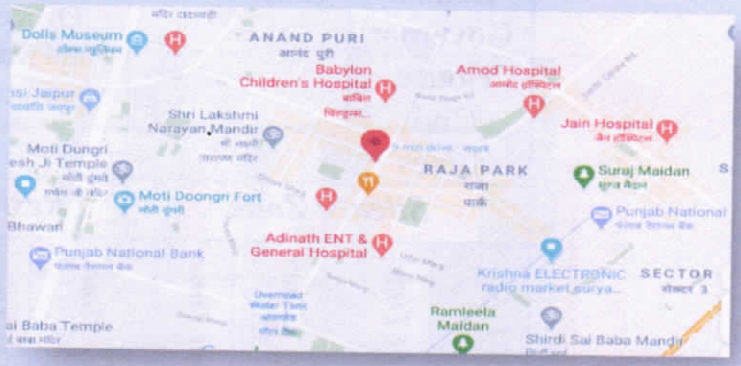
The Noise level monitoring was conducted day time (**1100 hrs to 2200 hrs**) and night time (**2200 hrs onwards**) for half hour interval at each location with sampling frequency of one second.

Monitoring Locations:

In order to maintain uniformity in monitoring, Residential, Commercial, and Silence zones were selected in respect of Noise Standards prescribed under the provisions of Noise Pollution (Regulation & Control) Rules, 2000. The monitoring network consisted of a total of 6 noise monitoring locations in Jaipur City.

Status of Noise Level in Jaipur City (July to December, 2020)

S. No.	Name of the Monitoring locations in Jaipur City	Locations on Google Map
1	Garden Behind Governor House, Civil Lines	
2	Santokba Durlabhji Memorial Hospital (near OPD)	
3	Nagar Nigam Office, Patel Marg, Mansarovar	

4	Science Park, Shastri Nagar	
5	Gali No. 3, Raja Park	
6	Near Kotwali Thana, Chhoti Choupar	

Monitoring Results:

The comparative statement of noise level monitoring conducted in Jaipur City is as under:

Table 2

Monitoring Period in 2021	Monitoring Locations											
	Garden Behind Governor House, Civil Lines		SDMH (near OPD)		Nagar Nigam Office, Patel Marg, Mansarovar		Science Park, Shastri Nagar		Gali No. 3, Raja Park		Near Kotwali Thana, Chhoti Choupar	
	Silence Zone				*Residential Zone*				*Commercial Zone*			
	Day Time	*Night Time*	*Day Time*	*Night Time*	*Day Time*	*Night Time*	*Day Time*	*Night Time*	*Day Time*	*Night Time*	*Day Time*	*Night Time*
January	59.4	48.2	61.4	66.3	58.6	50.1	67.2	56.6	70.3	66.8	70.5	65.1
February	67.2	47.4	62.7	61	55.9	49.9	62	51.1	67.6	63.2	71.3	68.9
March	65.3	47.1	60.7	65.2	56.6	50.2	60	52.8	65.2	60.5	71.5	68.9
April	Not Done						60.1	52.1	Not Done			
May							Not Done					
June	57.5	51.2	63	58	57.6	50.3	61.6	49.3	65.1	55.6	69.9	62.4
STANDARDS	***50.0***	***40.0***	***50.0***	***40.0***	***55.0***	***45.0***	***55.0***	***45.0***	***65.0***	***55.0***	***65.0***	***55.0***

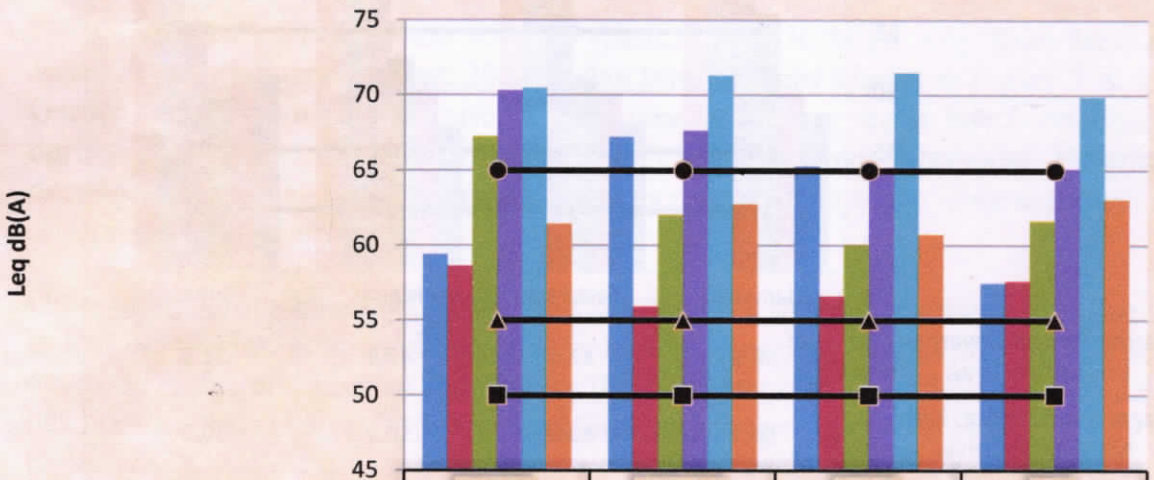
Note:

- Noise Level in Leq dB (A) exceeded the prescribed standards are highlighted in yellow.
- Monitoring during April & May, 2021 could not be conducted due to State Lockdown in view of pandemic (Covid-19).

Interpretation:

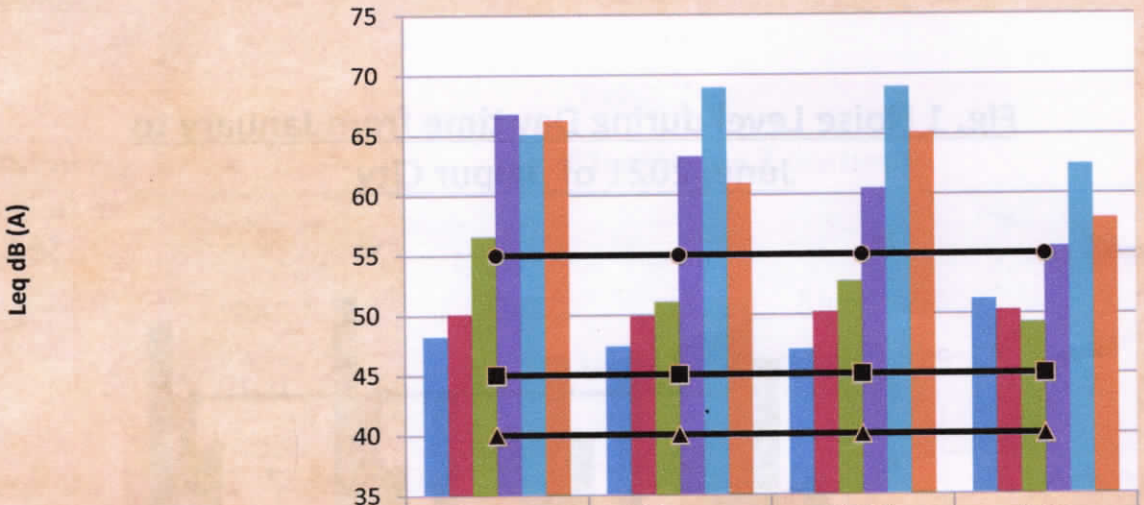
Comparison of Noise level of all monitoring locations from January to June, 2021, in day time & night time are at Figure 1 & 2, respectively.

Fig. 1 Noise Level during Day time from January to June, 2021 of Jaipur City



	January	Feburary	March	June
Garden Behind Governor House, Civil Lines	59.4	67.2	65.3	57.5
Nagar Nigam Office, Patel Marg, Mansarovar	58.6	55.9	56.6	57.6
Science Park, Shastri Nagar	67.2	62	60	61.6
Gali No. 3, Raja Park	70.3	67.6	65.2	65.1
Near Kotwali Thana, Chhoti Choupar	70.5	71.3	71.5	69.9
Outside Outdoor of SDMH	61.4	62.7	60.7	63
Standards (Silence Zone)	50	50	50	50
Standards (Residential Zone)	55	55	55	55
Standards (Commercial Zone)	65	65	65	65

Fig. 2 Noise Level during Night time from January to June, 2021 of Jaipur City



	January	Feburary	March	June
Garden Behind Governor House, Civil Lines	48.2	47.4	47.1	51.2
Nagar Nigam Office, Patel Marg, Mansarovar	50.1	49.9	50.2	50.3
Science Park, Shastri Nagar	56.6	51.1	52.8	49.3
Gali No. 3, Raja Park	66.8	63.2	60.5	55.6
Near Kotwali Thana, Chhoti Choupar	65.1	68.9	68.9	62.4
Outside Outdoor of SDMH	66.3	61	65.2	58
Standards (Silence Zone)	40	40	40	40
Standards (Residential Zone)	45	45	45	45
Standards (Commercial Zone)	55	55	55	55

Zone wise comparison of average noise level from 2019 to 2021 (for period from January to June):-

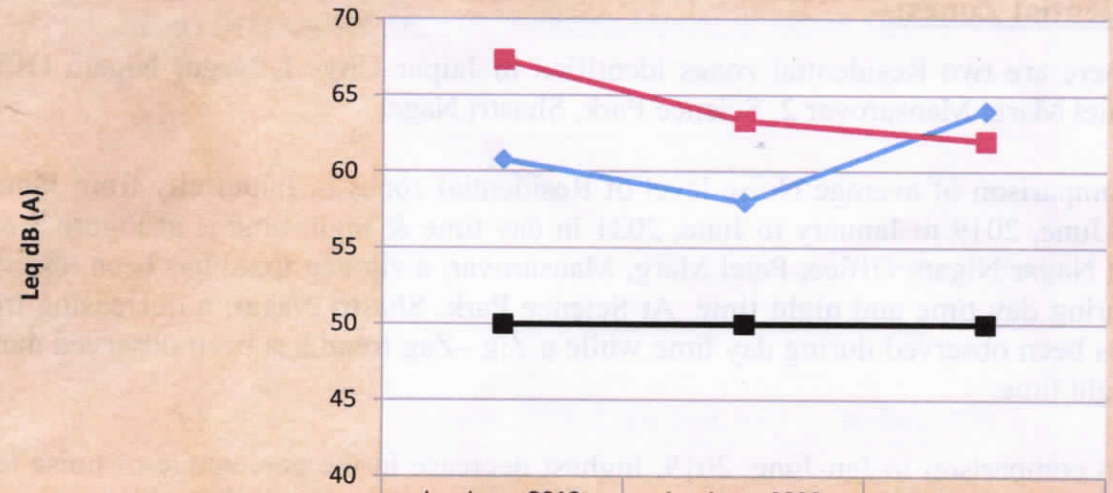
A. Silence Zones:-

There are two silence zones identified in Jaipur City- 1. Garden behind Governor House, Civil Lines 2. Santokba Durlabhji Memorial Hospital (SDMH).

Comparison of average Noise level of silence zones in Jaipur city from January to June, 2019 to January to June, 2021 in day time & night time is at Figure 3 & 4. At Garden behind Governor House, Civil Lines, a zig-zag trend has been observed during day time and night time. At Santokba Durlabhji Memorial Hospital, a decreasing trend has been observed during day time while a Zig –Zag trend has been observed during night time.

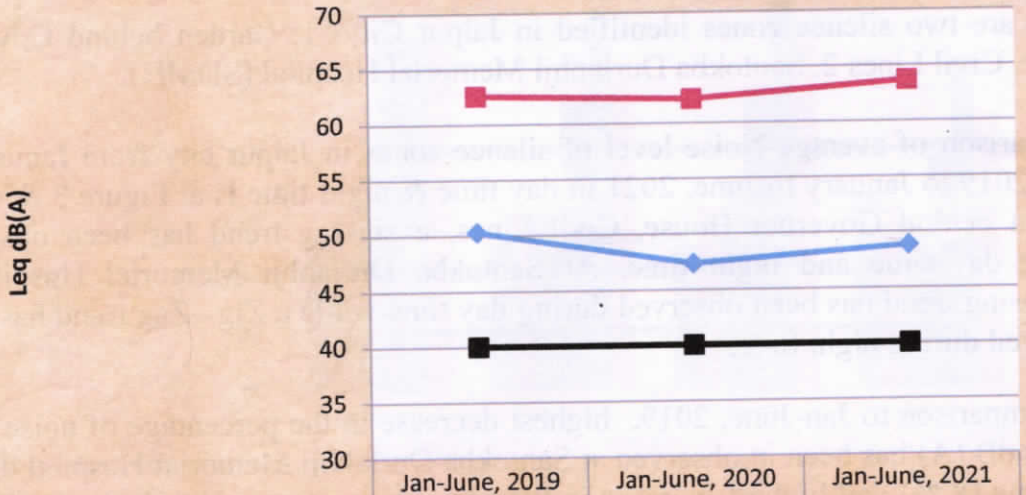
On comparison to Jan-June, 2019, highest decrease in the percentage of noise level in Leq dB (A) has been in observed at Santokba Durlabhji Memorial Hospital during day time (8 %) and highest increase in the percentage of noise level in Leq dB (A) has been in observed at Garden behind Governor House, Civil Lines during day time (5 %)

Fig. 3 Average Noise Level (from January to June) of last three years during Day time of Silence Zones of Jaipur City



	Jan-June, 2019	Jan-June, 2020	Jan-June, 2021
Garden Behind Governor House, Civil Lines	60.8	58	64
Outside Outdoor of SDMH	67.3	63.3	62
Standard(Day time)	50	50	50

Fig. 2 Average Noise Level (from January to June) of last three years during night time of Silence Zones of Jaipur City



	Jan-June, 2019	Jan-June, 2020	Jan-June, 2021
Garden Behind Governor House, Civil Lines	50.3	47.3	48.8
Outside Outdoor of SDMH	62.6	62.2	63.7
Standard(night time)	40	40	40

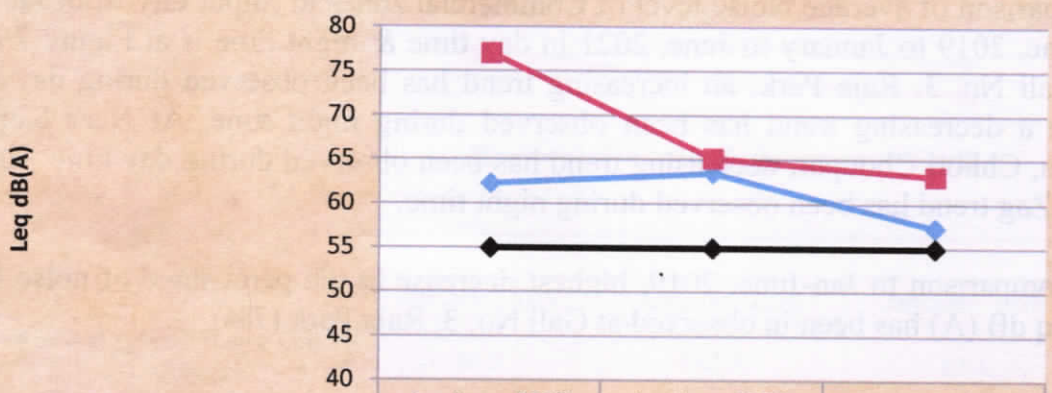
B. Residential Zones:-

There are two Residential zones identified in Jaipur City- 1. Nagar Nigam Office, Patel Marg, Mansarovar 2. Science Park, Shastri Nagar.

Comparison of average Noise level of Residential zones in Jaipur city from January to June, 2019 to January to June, 2021 in day time & night time is at Figure 5 & 6. At Nagar Nigam Office, Patel Marg, Mansarovar, a zig-zag trend has been observed during day time and night time. At Science Park, Shastri Nagar, a decreasing trend has been observed during day time while a Zig –Zag trend has been observed during night time.

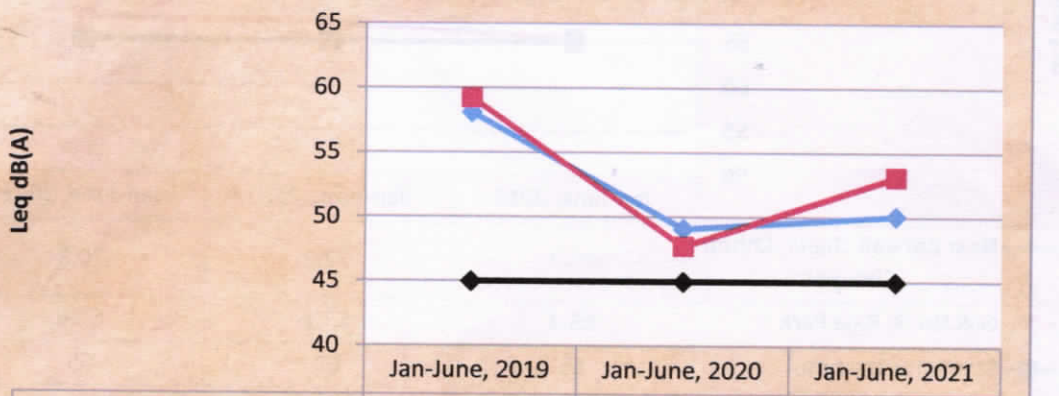
On comparison to Jan-June, 2019, highest decrease in the percentage of noise level in Leq dB (A) has been in observed at Science Park, Shastri Nagar (18%).

Fig. 2 Average Noise Level (from January to June) of last three years during day time of Residential Zones of Jaipur City



	Jan-June, 2019	Jan-June, 2020	Jan-June, 2021
Nagar Nigam Office, Patel Marg, Mansarovar	62.3	63.5	57.3
Science Park, Shastri Nagar	77	65.1	63.1
Standard(Day time)	55	55	55

Fig. 2 Average Noise Level (from January to June) of last three years during night time of Residential Zones of Jaipur City



	Jan-June, 2019	Jan-June, 2020	Jan-June, 2021
Nagar Nigam Office, Patel Marg, Mansarovar	58.1	49.1	50.1
Science Park, Shastri Nagar	59.2	47.7	53.1
Standard(night time)	45	45	45

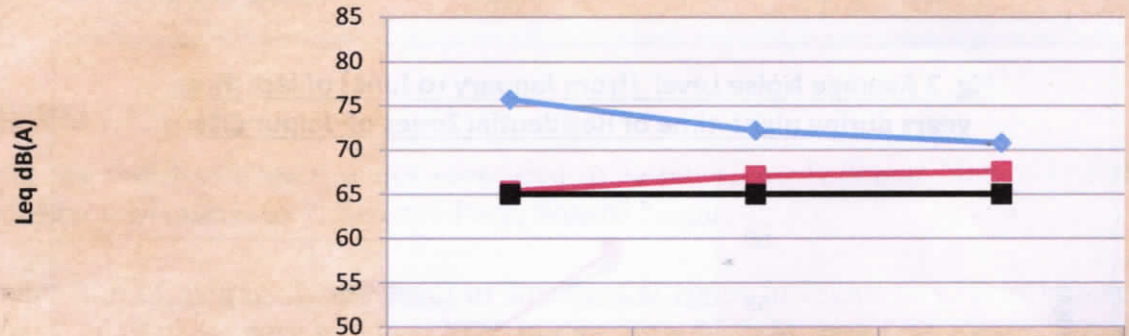
C. Commercial Zones:-

There are two Commercial zones identified in Jaipur City- 1. Gali No. 3, Raja Park 2. Near Kotwali Thana, Chhoti Choupar.

Comparison of average Noise level of Commercial zones in Jaipur city from January to June, 2019 to January to June, 2021 in day time & night time is at Figure 7 & 8. At Gali No. 3, Raja Park, an increasing trend has been observed during day time while a decreasing trend has been observed during night time. At Near Kotwali Thana, Chhoti Choupar, decreasing trend has been observed during day time while a Zig –Zag trend has been observed during night time.

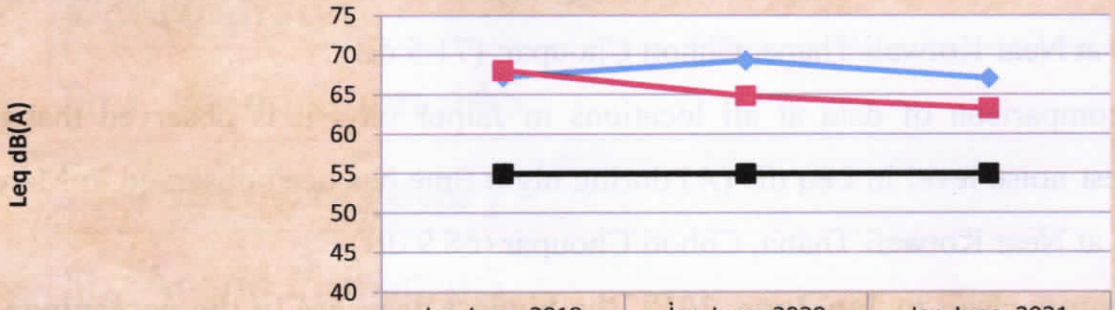
On comparison to Jan-June, 2019, highest decrease in the percentage of noise level in Leq dB (A) has been in observed at Gali No. 3, Raja Park (7%).

Fig. 7 Average Noise Level (from January to June) of last three years during Day time of Commercial Zones of Jaipur City



	Jan-June, 2019	Jan-June, 2020	Jan-June, 2021
Near Kotwali Thana, Chhoti Choupar	75.7	72.2	70.8
Gali No. 3, Raja Park	65.4	67.1	67.6
Standard(Day time)	65	65	65

Fig. 8 Average Noise Level (from January to June) of last three years during Night time of Commercial Zones of Jaipur City



	Jan-June, 2019	Jan-June, 2020	Jan-June, 2021
Near Kotwali Thana, Chhoti Choupar	67.3	69.3	67.1
Gali No. 3, Raja Park	68	64.8	63.2
Standard(night time)	55	55	55

Conclusion:

- On comparison of data at all locations in Jaipur city, it is observed that the highest noise level in Leq dB (A) during day time has been observed in March 2021 at Near Kotwali Thana, Chhoti Choupar (71.5 dB).
- On comparison of data at all locations in Jaipur city, it is observed that the highest noise level in Leq dB (A) during night time has been observed in March, 2021 at Near Kotwali Thana, Chhoti Choupar (68.9 dB).
- **On comparison to Jan-June, 2019, the highest decrease in the percentage of average noise level in Leq dB (A) has observed at Science Park, Shastri Nagar (18%) during day time in Jaipur.**
- **On comparison to Jan-June, 2019, the highest increase in the percentage of average noise level in Leq dB (A) has observed at Garden behind Governor House, Civil Lines (5%) during day time in Jaipur.**
- During the monitoring period, the noise level in Leq dB (A) has exceeded the prescribed standards under the provisions of Noise Pollution (Regulation & Control) Rules, 2000 during day and night time at all locations.
- On comparison of Average Noise level from Jan-June, 2019 to Jan-June, 2021, the average noise level decreased at Outside Outdoor of SDMH (day time-8%), Garden behind Governor House, Civil Lines (night time-3%), Nagar Nigam Office, Patel Marg, Mansarovar (day time-8%& night time-14%), Gali No. 3, Raja Park (night time-7%), Near Kotwali Thana, Chhoti Choupar (day time-6%), Science Park, Shastri Nagar (day time-18% & night time-10%); while the average noise level increased at Outside Outdoor of SDMH (night time-2%), Gali No. 3, Raja Park (day time-6%) and Garden behind Governor House, Civil Lines (day time-5%).

Chairperson
Smt. Veenu Gupta, IAS
Member Secretary
Sh. Anand Mohan, IFS
Chief Environmental Engineer
Dr. Vijai Singhal
Chief Scientific Officer
Smt. Sheeba Khan
Report Preparation & Data Compilation
Mrs. Poonam Kumari, SSO, Mrs. Rinky Mahera, JSO, Sh.Chetan Kumar Arya, JSO.
Monitoring Team
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Email:- member-secretary@rpcb.nic.in **Contact No.: 0141-2716802** **Fax: 2716895**	**Website:-** http://environment.rajasthan.gov.in/content/environment/en/rajasthan-state-pollution-control-board.html#

CPCB | Central Pollution Control
cpcb.nic.in/noise-pollution-rules/

Central Pollution Control Board
Ministry of Environment, Forest and Climate Change
Government of India

Implementation of Noise Rules

Updated On : 24 Apr 2020

1. Noise Pollution (Regulation and Control) Rules, 2000
2. Authority List for Implimentation of Noise Rules 2000

Notification

New Delhi, the 14 February, 2000

S.O. 123(E) - Whereas the increasing ambient noise levels in public places from various sources, inter-alia, industrial activity, construction activity, generator sets, loud speakers, public address systems, music systems, vehicular horns and other mechanical devices have deleterious effects on human health and the psychological well being of the people; it is considered necessary to regulate and control noise producing and generating sources with the objective of maintaining the ambient air quality standards in respect of noise;

Whereas a draft of Noise Pollution (Control and Regulation) Rules, 1999 was published under the notification of the Government of India in the Ministry of Environment and Forests vide number S.O. 528 (E), dated the 28 th June, 1999 inviting objections and suggestions from all the persons likely to be affected thereby, before the expiry of the period of sixty days from the date on which the copies of the Gazette containing the said notification are made available to the pubic;

11:38 AM
04-Oct-21

AUTHORITY LIST FOR IMPLEMENTATION OF NOISE RULES 2000

The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)

CPCB has requested to all SPCBs and PCCs for providing information on the identified authority for implementation of Noise Rules in their respective state. As on date following information received.

List of State Pollution Control Boards/Committees, who have responded to CPCBs' request(s)

S. No.	State / UT	S. No.	State / UT
1.	Chandigarh	11.	Karnataka
2.	Daman	12.	Kerala
3.	Mizoram	13.	Maharashtra
4.	Andhra Pardesh	14.	Meghalaya
5.	Bihar	15.	Nagaland
6.	Goa	16.	Orissa
7.	Gujarat	17.	Punjab
8.	Haryana	18.	Rajasthan
9.	Himachal Pardesh	19.	Tripura
10.	Jharkhand	20.	West Bengal

State / UT: Chandigarh

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1	Sub Divisional Magistrate	South, Chandigarh			
2	Sub Divisional Magistrate	East, Chandigarh			
3	Sub Divisional Magistrate	Central, Chandigarh			
4	Senior Superintendent of Police	Chandigarh			
5	MS, CPCC	Chandigarh			

State / UT : Daman

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Member Secretary Pollution Control Committee	Fort Area Court, Moti Daman	0260-2230975 2230524		
2	Member Secretary Pollution Control Committee	2nd floor, Secretariate, Silvassa	0260- 2630260		
3.	District Magistrate Office of the Collector, Collectorate	Dholar, Moti Daman	0260-2230698, 2230689		
4	District Magistrate Office of the Collector, Collectorate	Silvassa	0260-2642721, 2630199		
5.	The Deputy Inspector General of Police	Panch Rasta, Nani Daman	0260-2230050, 2251848		
6.	The Deputy Inspector General of Police	Silvassa	0260-2642966,		

			2642707		

State / UT: Mizoram

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1	Sh. C. Thanchhuma, IAS Deputy Commissioner	Aizawl	0389-2329203	0389-2329202	
2.	Smt. M. Zohmingthangi, IAS Deputy Commissioner	Lunglei	0372-23241421	0372-2324021	
3.	Sh. Thlamuana, MCS Deputy Commissioner	Lawngtlai	03835-232805	03835-232656	
4.	Sh. Kunal, IAS Deputy Commissioner	Saiha District	03835-222024/ 223060	03835-222038	
5	Sh. Vijay Kumar Bidhuri, IAS Deputy Commissioner	Champhai	03831-234402	03831-234400	
6	Sh. R. Liankima, MCS Deputy Commissioner	Kolasib	03837-220001	03837-221063	
7	Sh. Zothankhuma, IAS Deputy Commissioner	Mamit	0389-2565220	0389-256414	
8	Sh. H. Darzika, MCS Deputy Commissioner	Serchip	03838-222432	03838-222178	

State / UT: Andhra Pardesh

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Commissioner of Police	Respective municipal corporation			
2.	Superintendent of Police	Respective Districts			

State / UT: Bihar

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	**Additional Collector**	**Respective Jurisdiction Area**			
2.	**Inspector General**	**Respective Jurisdiction Area**			
3.	**Sub. Divisional Officer**	**Respective Jurisdiction Area**			

State / UT: Goa

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Collector & District Magistrate	North Goa, Panaji			
2	Collector & District Magistrate	South Goa, Margao			
3	Addl. Collector –(1) & Addl.	North Goa, Panaji			

	District Magistrate				
4	Dy. Collector – (1) & Addl. District Magistrate	North Goa, Margao			
5	Dy. Collector & Sub- Divisional Magistrate	Tiswadi, Panaji			
6	Dy. Collector & Sub- Divisional Magistrate	Ponda			
7	Dy. Collector & Sub- Divisional Magistrate	Bardez, /Mapusa			
8	Dy. Collector & Sub- Divisional Magistrate	Bicholim			
9	Dy. Collector & Sub- Divisional Magistrate	Pernem			
10	Dy. Collector & Sub- Divisional Magistrate	Salcete, margao			
11	Dy. Collector & Sub- Divisional Magistrate	Mormugao, Vasco			
12	Dy. Collector & Sub- Divisional Magistrate	Quepem			
13	Superintendent of Police	North Goa, Panaji			
14	Superintendent of Police	Margao			
15	Sub-Divisional Police Officer	Tiswadi, Panaji			
16	Sub Divisional Police Officer	Ponda			
17	Sub Divisional Police Officer	Saicete, Margao			
18	Sub Divisional Police Officer	Mormugao, Vasco			
19	Sub Divisional Police Officer	Mapusa & Anjuna Police Stations			
20	Sub Divisional Police Officer	Calangute & Porvorim Police stations			

21	Sub Divisional Police Officer	Quepem			
22	Sub Divisional Police Officer	Bicholim			

State / UT: Gujarat

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Sh. A.A. Dolti, Regional officer	**Gujarat Pollution Control Board, Regional office, (Ahmedabad) Gujarat Rajya Khadi Gramodhyog Board, Gram Nirman Bhavan, Third Floor, Juna Vadaj, Ahmedabad.**	**(079) 27556631/32/34**	**(079) 27556670**	
2.	Sh. J.B. Brahmbhatt, Sr. Sci. officer				
3.	Sh. C.C. Bhimani, Dy. Env. Engr.				
4.	Sh. B.D. Prasad, Dy. Env. Engr.				
5.	Sh. N.D. Ajmera, Dy. Env. Engr.				
6.	Kum. M.S. Rathod, Dy. Env. Engr.				
7.	Sh. D.N. Rathod, Dy. Env. Engr.				
8.	Sh. D.N. Vasadia, Sci. officer				
9.	Sh. A.D. Khendia, Sr. Sci. Asst.				
10.	Sh. D.D. Patel, Sr. Sci. Asst.				
11.	Sh. A.V. Parmar, Sr. Sci. Asst.				
12.	Sh. J.D. Kalyani, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Ankleshwar). Cleaner Technology Development Centre Building (Arail), 1st Floor, Plot No. 1501,**	**(02646) 222933**	**(02646) 222932**	
13.	Sh. N. A. Shah, Dy. Env. Engr.				
14.	Sh. S.M. Vaijnapurkar, Dy. Env. Engr.				
15.	Sh. A.G. Rana, Sci. Officer				
15.	Sh. R.K. Mehta, Sr. Sci. Asst.				

		G.I.D.C. Estate, Ankleshwar-393002. Dist. Bharuch			
16.	Sh. A.V. Shah, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Bhavnagar) Plot No. 1154/2-B, Ghogha Circle, Sar Patni Road, Bhavnagar.**	**(0278) 2524108**	**(0278) 2525837**	
17.	Sh. R.P. Gupta, Dy. Env. Engr.				
18.	Sh. B.R. Kochra, Sci. Officer				
19.	Sh. B.M. Makwana, Sci. Officer				
20.	Sh. M.M. Jadav, Sr. Sci. Asst.				
21.	Sh. B.R. Kunadia, Sr. Sci. Asst.				
22.	Sh. M.S. Shukla, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Bharuch). Plot No. C-1/119, K, G.I.D.C., Narmadanagar - 392015, Dist. Bharuch.**	**(02832) 250620**	**(02832) 250621**	
23.	Sh. B.Y. Rathod (Lab.), Sr. Sci. Officer				
24.	Sh. M.U. Patel, Dy. Env. Engr.				
25.	Kum. Y.A. Tehsin, Sci. Officer				
26.	Sh. H.M. Gavit, Sci. Officer				
27.	Sh. G.N. Patel , Sci. Officer				
28.	Sh. V.M. Dedakia, Sci. Officer				
29.	Sh. R.P. Buha, Sr. Sci. Asst.				
30.	Sh. S.H. Baraiya (Lab.), Sr. Sci. Asst.				
31.	Sh. N.V. Dashandi (Lab.), Sr. Sci. Asst.				
32.	Smy. J. D. Oza (Lab.), Sr. Sci. Asst.				
33.	Sh. K.K. Lakum, Sr. Sci. Asst.				
34.	Sh. M.J. Shah, Sr. Sci. Asst.				
35.	Sh. K.C. Pancholi, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board,**	**(02832) 250620**	**(02832) 250621**	

36.	Sh. M. R. Makwana, Dy. Env. Engr.	**Regional Office, Naniba Pathsala Building, Patvadi Darvajo, Outside Patvadi Naka, Near Hameer Sar Talav, Bhuj Dist-Kutch-370011**			
37.	Sh. S.V. Malsatar, Dy. Env. Engr.				
38.	Sh. P.K. Dodia, Sr. Sci. Officer				
39.	Sh. U.K. Madhad, Sci. Officer				
40.	Sh. B.C. Brambhatt, Sci. Officer				
41.	Sh. S.H. Jaiswal, Sr. Sci. Asst.				
42.	Sh. R.M. Ramanuj, Sr. Sci. Asst.				
43.	Sh. C.A. Shah, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Gandhinagar) "Paryavaran Bhavan", Sector-10A, Gandhinagar-382010**			
44.	Sh. J.M. Chaudhary, Dy. Env. Engr.				
45.	Sh. R.R. Kanojia, Dy. Env. Engr.				
46.	Smt. N.I. Kapadia, Sci. Officer				
47.	Sh. H.B. Jadav, Sr. Sci. Asst.				
48.	Smt. K.G. Rathod, Sr. Sci. Asst.				
49.	Sh. I.B. Chaudhary, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Godhra), 20, Haidari Society, Opp. D.S.P. Office, Godhra-389001.**	**(02672) 245869**	**(026720) 245991**	
50.	Sh. A.O. Trivedi, Dy. Env. Engr.				
51.	Sh. R.N. Patel, Sci. Officer				
52.	Sh. S.H. Vegda, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Himmatnagar), 33/34, Adarsh Bunglows,**			
53	Sh. M.G. Barad, Dy. Env. Engr.				
54.	Sh. M.B. Ahir, Sci. Officer				
55.	Smt. J.K. Patel, Sr. Sci. Asst.				

		Polytechnic Road, Motipura, Himmatnagar-383001, Dist. Sabarkantha			
56.	Sh. B.L. Maru, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Jamnagar), Sardar Patel Vanijya Snakul, Kasturba Gandhi Vikas Gruh Road, Rameshwarnagar, Bedi Bandar Road, Jamnagar- 361008**	**(0288) 2752366**	**(288) 2753540**	
57.	Sh. D.C. Vankani, Dy. Env. Engr.				
58.	Sh. P.B. Katesia, Dy. Env. Engr.				
59.	Sh. J.B. Dave (Lab.), Sr. Sci. Officer				
60.	Sh. V.S. Soni, Sci. Officer				
61.	Sh. R.I. Desai, Sci. Officer				
62.	Sh. G.M. Sadhu, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Junagadh), Pankaj Bunglow, Opp. San't anis Church, Station Road, Junagadh**	**(0285) 2651503**	**(0285) 2651503**	
63.	Sh. B.G. Sutreja, Dy. Env. Engr.				
64.	Sh. R.V. Chauhan, Dy. Env. Engr.				
65.	Sh. R.S. Jivani, Sci. Officer				
66.	Smt. H.K. Shah, Sr. Sci. Asst.				
67.	Sh. K.R. Upadhay, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Mehsana), Plot No. H/3-A, Phase no.1, GIDC Estate, Modhera Road, Mehsana**	**(02762) 258294**	**(02762) 258106**	
68.	Sh. K.B. Chaudhary, Dy. Env. Engr.				
69.	Sh. D.P. Patel, Dy. Env. Engr.				
70.	Smt. M.U. Shah, Sci. Officer				
71.	Sh. M.P. Shah, Sci. Officer				

72.	Smt. K.M. Thakar, Sr. Sci. Asst.				
73.	Sh. V.C. Shah, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Nadiad), B-Block No. 201 to 203, Sardar Patel Bhavan, Mill Road, Opp. Petrol Pump, Nadiad, Dist. Kheda.**	**(02680) 25142427**	**(0268) 2551425**	
74.	Sh. R.B. Trivedi, Dy. Env. Engr.				
75.	Smt. N.R. Parmar, Sci. Officer				
76.	Sh. R.R. Badgujar, Sr. Sci. Asst.				
77.	Sh. D.L. Bhatt., Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Porbandar), C/O. Sardar Patel Vanija Sankul, Kasturba Gandhi Vikas Gruh road, Rameshwarnagar, Bedi Bandar Road, Jamnagar-361008**	**(0288) 2752366**	**(0288) 2753540**	
78.	Sh. V.K. Prajapati, Dy. Env. Engr.				
79.	Sh. J.D. Patil, Sr. Sci. Asst.				
80.	Sh. K.V. Joshi, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Rajkot), Race Course Ting road, Near Big Bite Restaurant, Rajkot-360001**	**(0281) 2474524**	**(0281) 2452189**	
81.	Sh. A.N. Pranami, Dy. Env. Engr.				
82.	Sh. V.M. Prajapati, Dy. Env. Engr.				
83.	Smt K.N. Parmar, Dy. Env. Engr.				
84.	Sh. P.H. Bhatt, Sr. Sci. Asst.				
85.	Sh. B.M. Dolasiya, Sr. Sci. Asst.				

86.	Sh. N.H. Parmar, Sr. Sci. Asst.				
87.	Sh. R.D. Gandhi, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Suprendranagar), C/O. Race Course Ring Road, Near big Bite Restaurant, Rajkot- 360001**	**(0281) 2474524**	**(02810 2452189**	
88.	Sh. A.M. Gandhiya, Dy. Env. Engr.				
89.	Sh. M.H. Pancholi, Sci. Officer				
90.	Sh. R.D. Kothari, Sr. Sci. Asst.				
91.	Sh. Anil G. Patel, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (Surat), Beljium Square 1st Floor, Silver Plaza Complex, Opp. Linier Bus Stand, Ring Road, Surat-395003**	**(0261) 2442696/ 2411192**	**(0261) 2429733**	
92.	Sh. C.B. Patel, Sr. Sci. Officer				
93.	Sh. R.K. Gandhi, Sci. Officer				
94.	Sh. V.D. Rakholia (Vigilance), Dy. Env. Engr.				
95.	Sh. A.G. Patel, Dy. Env. Engr.				
96.	Smt. S.A. Bharti (Lab.), Sr. Sci. Officer				
97.	Dr. A.H. Sharma (Vigilance), Sci. Officer				
98.	Sh. R.C. Vasava (Lab.), Sr. Sci. Asst.				
99.	Sh. N.M. Kavar, Sr. Sci. Asst.				
100.	Sh. S.K. Vasava (Lab), Sr. Sci. Asst.				
101.	Sh. M.M. Page(Lab.), Sr. Sci. Asst.				
102.	Sh. T.N. Rana), Sr. Sci. Asst.				
103.	Sh. R.C. Tamboli, Regional Officer	**Gujarat Pollution Control Board,**	**(0265) 2354850/2331928**	**(0265) 2339205**	

	(Env. Engr.)	**Regional Office, (Vadodara, G.E.R.I. Compound, Race Course, Vadodara-390007**			
104	Sh. D.M. Patel (Vigilance), Dy. Env. Engr.				
105..	Sh. S.B. Parmar, Dy. Env. Engr.				
106.	Sh. K.N. Vaghmashee, Dy. Env. Engr.				
107.	Kum. R.R. Menon (Shaikh), Dy. Env. Engr.				
108.	Smt. L.K. Vandra (Lab.), Sr. Sci. Officer				
109.	Sh. B.D. Mistry, Sci. Officer				
110.	Sh. M.G. Shaikh (Vigilance), Sci. Officer				
111.	Sh. K.I. Karelia, Sci. Officer				
112.	Smt. V.M. Panhalkar, Sci. Officer				
113.	Sh. A.G. Oza (Lab), Sr. Sci. Asst.				
114.	Sh. I.M. ghasura (Lab), Sr. Sci. Asst.				
115.	Smt. P.H. Parmar (Lab), Sr. Sci. Asst.				
116.	Sh. R.B. Jadeja, Sr. Sci. Asst.				
117.	Sh. G.V. Patel, Regional Officer (Env. Engr.)	**Gujarat Pollution Control Board, Regional Office, (VAPI), Plot No. C/5/124, Near Hotel Pritam, VAPI-396195.**	**(0260) 2432089**	**(0260) 2432826**	
118	Sh. M.G. Kagji, Dy. Env. Engr.				
119.	Sh. F.M. Modi, Dy. Env. Engr.				
120.	Sh. H.C. Solanki, Sr. Sci. Officer				
121.	Sh. V.C. Shah, Sci. Officer				

122.	Sh. A.D. Bhimani, Sci. Officer				
123.	Sh. B.M. Parmar (Lab.), Sr. Sci. Asst.				
124.	Sh. B.N. Chauhan, Sr. Sci. Asst.				
125.	Sh. S.R. Valvi, Sr. Sci. Asst.				
126.	Sh. D.S. Patel (Lab.), Sr. Sci. Asst.				

State / UT: Haryana

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Sub divisional Magistrate	Respective District			
2.	Deputy Superintendent of Police	Respective Jurisdiction			
3.	Regional Officer	Respective Jurisdiction			

State / UT: Himachal Pardesh

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Smt. Sarojini G. Thakur, IAS Additional Chief Secretary (Environment Science & Technology) GoHP		0177-2621871	0177-2621871	
2	Smt. Amita Mahajan, HAS , Joint Secretary (Environment Science & Technology) GoHP		0177-264475		
3	Sh. J.S. Rana Deputy Commissioner	Shimla	0177-2655988	0177-2653535	
4	Sh. B.M. Nanta Deputy Commissioner	Kullu	01902-222727		
5	Sh. B.M. Bhatt Deputy Commissioner	Una	01975-225800	01975-223781	

6	Sh. K.R. Bhatt Deputy Commissioner	Solan	01792-220656	01792-220757	
7	Sh. Padam Singh Chauhan Deputy Commissioner	Sirmour	01702-225025	01702-223175	
8	Sh. Devesh Kumar Deputy Commissioner	Chamba	01899-224847	01899-225371	
9	Sh. Ritesh Chauhan Deputy Commissioner	Lahaul Spiti	01900-222501		
10	Dr. Amandeep Garg Deputy Commissioner	Mandi	01905-225201	01905-225213	
11	Ms. Priyanka Basu Ingty Deputy Commissioner	Kinnaur	01786-222252	01786-223323	
12	Sh. R.S. Gupta Deputy commissioner	Kangra	01892-222103	01892-223323	
13	Ms. Nandita Gupta Deputy Commissioner	Bilaspur	01978-224155	01978-223065	
14	Sh. Abhishek Jain Deputy Commissioner	Hamirpur	01972-224300	01978-222437	
15	Sh. Kuldeep Sharma, Superintendent of Police	Bilaspur	01978-224500	01978-224500	
16	Sh. Madhusudan, Superintendent of Police	Chamba	01892-222244	01892-224905	
17	Sh. Asif Jala , Superintendent of Police	Hamirpur	01972-224358	01899-222242	
18	Sh. Atul Kumar, Superintendent of Police	Kangra at Dharamshala	01892-222244	01892-224905	
19	Sh. Yashbir Pathania, Superintendent of Police	Kinnaur	01786-222270	01786-222528	
20	Sh. K.K. Indoria, Superintendent of Police	Kullu	01902-224700	01908-224700	
21	Sh. S.R. Rana,	Lahaul Spiti	01900-222226	01900-	

	Superintendent of Police			222226	
22	Sh. Sonal Agnihotri Superintendent of Police	Mandi	01905-222470	01902-224700	
23	Sh. R. M. Sharma, Superintendent of Police	Shimla	0177-2656535	0177-2808209	
24	Sh. P.D. Prasad, Superintendent of Police	Sirmour at Nahan	01702-225002	01702-225002	
25	Sh. Prem Kumar Thakur, Superintendent of Police	Solan	01792-220567	01792-223576	
26	Superintendent of Police	Una	01975-225056	01975-226048	
27	Dr. Nagin Nanda, IFS Member Secretary, HPSPCB	Shimla	0177-2673766	0177-2673018	
27	Dr. Shrawn kumar, EE	Una	01975-223220	01975-223220	
29	Dr. Harish Sharma, Regional Officer	Parwanoo	01792-232540	01792-232540	
30	Sh. A.K. Ravi, EE	Rampur	01782-233987	01782-233987	
31	Sh. Brij Bhushan, EE	Baddi	0795-245374	01795-245374	
32	Sh. R.K. Nadda, EE	Kullu	01902-223149	01902-223149	
33	Sh. A.K. Sharda, EE	Paonta Sahib	01704-225870	01704-225870	
34	Sh. Praveen Gupta, EE	Shimla	0177-2673766	0177-2673766	
35	Sh. S. K. Dhiman, AEE	Jassur	01893-226368	01893-226368	
36	Sh. R.K. Nadda, AEE	Bilaspur	01978-223550	01978-22350	

37	Sh. Varun Gupta , AEE	Chamba	01899-220326	01899-220326	
38	Sh. Pradeep Moudgil, AEE	Kala Amb	01704-225870	01704-225870	

State / UT: Jharkhand

Sl. No.	**Name & Designation**	**Address**	**Telephone No.**	**Fax No.**	**Email**
1.	Principal Secretary, Forest and Environment	Govt. of Jharkhand			

State / UT: Karnataka

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	All Police officers not below the rank of Superintendent of Police	Respective jurisdiction area			

State / UT: Kerala

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	District Magistrates	Respective jurisdiction			
2.	Commissioner of Police	Respective jurisdiction			
3.	Superintendents of Police	Respective jurisdiction			
4.	Deputy Superintendents of	Respective jurisdiction			

	Police (Sub-Divisional officers)				

State / UT: Maharashtra

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	District Magistrate, Sub-divisional Magistrate	As per revenue jurisdiction			
2	Police Commissioner or any other officer not below the rank of the Deputy Superintendent of Police	As per jurisdiction			
3.	Municipal Commissioner, Additional/ Deputy Municipal Commissioner/ Chief officer of Municipal Council/ Committee	Govt. of Maharashtra			
4	Registrar / Head Master of the Educational Institutions duly approved by the concerned govt. not below the rank of the Deputy Superintendent of Police	Education Department			
5.	Dean/ Superintendent of the govt. Hospitals not below the rank of the Deputy Superintendent of Police	Health Department			
6.	Head of M.M.R.D.A., M.S.R.D.C., C.I.D.C.O,	Urban Development Department			

	having local jurisdiction constituted under various laws and Public works departments				
7.	MS and any officer MPCB not below the rank of the Deputy Superintendent of Police	MPCB, Environment Department			
8. i)	Any officer form the State Transport Department/ Deputy Regional Transport Officer in their respective jurisdiction not below the rank of the Deputy Superintendent of police	Transport Department			
ii)	Head of Maharashtra State Road Transport Corporation or nay officer/ Depot Manager not below the rank of the Deputy Superintendent of Police	Transport Department			
iii)	Traffic Police Authorities not below the rank of the Deputy Superintendent of Police	Transport Department			

State / UT: Meghalaya

Sl.	Name & Designation	Address	Telephone	Fax No.	Email

No.			No.		
1	Deputy Commissioner	East Khasi Hills, Shillong	0364-2224003	0364-2223394	
2	Deputy Commissioner	West Khasi Hills, Nongstoin	0654-280221	03654-280221	
3	Deputy Commissioner	Ri-Bhoi, Nongpoh	03638-232221	03638-232503	
4	Deputy Commissioner	Jaintia Hills, Jowai	03652-220721	03638-232503,232571	
5	Deputy Commissioner	East Garo Hills, williamnagar	03658-220226	03658-220221,220222,220272	
6	Deputy Commissioner	West Garo Hills, Tura	03651-223835	03651-221179 222226	
7	Deputy Commissioner	South Garo Hills, Baghmara	03639-222292	03639-222225	

State / UT: Nagaland

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1	Sh. Rovilatuo Mor, NCS Deputy Commissioner Wokha	Tsumang colony, Wokha	0370-242040	242010	dcwoknig@nic.in
2	Dinesh Kumar, IAS	Mon	03869-251246	251625	dcmonngl@nic

	Deputy Commissioner Mon		(O) 251235 (R)		.in
3	Smti. Lithrongla g. Chishi , Deputy Commissioner	Mokokchung, Nagaland-798601	0369-2226231(O) 2226163 (R)	0369-2226055	dcmokngl@nic.in
4	C.M. Tsanglao Deputy Commissioner	Kiphire	03863-22555 (O)	03863-22555	dc.kiphire@gmail.com
5	Deputy Commissioner	Phek	03865-223037 (O)	03865-223045	nagphk@hub2.nic.in
6	Deputy Commissioner	Kohima	0370-2290355	0370-229035	dckhmngl@nagaland.nic.in
7	Y.L. Jami Deputy Commissioner	Tuensang	03861-220333	03861-220791	dcofficetsg@gmail.com
8	Sh. Manog Aier Deputy Commissioner	Dimapur	248530 (O) 225100 (R)	248613	dcdmpngl@nic.in
9	Smti. Khrienuo C. Metha, Deputy Commissioner	Peren	9436832179 (M)	03862-26860	nagprn@nic.in
10	Sh. Kihoto Deputy Commissioner	Zunheboto	9436003680 (M) 220235 (O) 220335 (R)	03867-220387	nagzhb@nic.in
11	Deputy Commissioner	Longleng	9436438663 (M) 0369-2236270 (O) 2236211 (R)	-	rhosietho@gmail.com

State / UT: Orissa

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email

1.	District Magistrate	Concerned District			
2.	Additional District Magistrate	Concerned District			
3.	Sub Divisional Magistrate	Concerned Sub Division			
4.	Superintendent of Police	Concerned Sub Division			
5.	Additional SP	Concerned Sub Division			
6.	Deputy Superintendent of Police	Concerned Sub Division			
7.	Sub Divisional Police Officer	Concerned Sub Division			
8.	Commissioner of Police	Cuttack and Bhubaneswar			

State / UT: Punjab

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
A1.	Sh. Gaurav Yadev Commissioner of Police	Jalandhar	0181-2226497		
A2	Sh. Ishwar Singh Commissioner of Police	Ludhiana	0161-2414927		
A3	Sh. Varinder Kumar Commissioner of Police	Amritsar	0183-227779		
B1	Sh. Gurmeet Singh Chohan Senior Superintendent of Police	Amritsar	0181-2584369		
B2	Sh. Harcharan Singh Bhullar Senior Superintendent of Police	Barnala	01679-231107		
B3	Sh. Dinesh Partap Singh Senior Superintendent of Police	Batala	01871-242145		
B4	Sh. Ashish Chaudhary Senior Superintendent of Police	Bathinda	0164-2219100		
B5	Sh. A.K. Mittal Senior Superintendent of Police	Faridkot	01639-252000		
B6	Sh. Surinderpal Singh Parmar Senior Superintendent of Police	Ferozepur	01632-244049		

B7	Sh. Lok Nath Angra Senior Superintendent of Police	Gurdaspur	01874-241173		
B8	Sh. Parmod Ban Senior Superintendent of Police	Hoshiarpur	01882-220501		
B9	Sh. Ram Singh Senior Superintendent of Police	Kapurthala	01822-220513		
B10	Sh. Sukminder Singh Senior Superintendent of Police	Khanna	01628-233761		
B11	Sh. Sukhchain Singh Gill Senior Superintendent of Police	Ludhiana	0161-2414904		
B12	Sh. Harinder Singh Chahal Senior Superintendent of Police	Ludhiana (Rural) Jagaon	01624-223359		
B13	Sh. Hardial Singh Man Senior Superintendent of Police	Mansa	01652-229010		
B14	Sh. Ashok Kumar Bath Senior Superintendent of Police	Moga	01636-236600		
B15	Sh. Gurpreet Singh Gill Senior Superintendent of Police	Mukatsar	01633-263809		
B16	Sh. Rakesh Aggarwal Senior Superintendent of Police	Shaheed Bhagat Singh Nargar	01823-221023		
B17	Sh. Ranbir Singh Khatra Senior Superintendent of	Patiala	0175-2311122		

	Police				
B18	Sh. L.K. Yadav Senior Superintendent of Police	Roop Nagar	01881-220946		
B19	Sh. Naunihal Singh Senior Superintendent of Police	Sangrur	01672-241704		
B20	Sh. Sukhdev Singh Brar Senior Superintendent of Police	Tarn-Taran	01852-226500		
B21	Sh. Gurpreet Singh Bhullar Senior Superintendent of Police	S.A.S Nagar	0172-2270575		
C1	Sh. K.S Pannu IAS Deputy Commissioner	Amritsar	0183-2226161		
C2	Sh. Parveen Kumar IAS Deputy Commissioner	S.A.S. Nagar	0172-5044500		
C3	Dr. Karuna Raju IAS Deputy Commissioner	Faridkot	01639-251051		
C4	Sh. Vijay N. Zade IAS Deputy Commissioner	Moaga	01636-234400		
C5	Dr. Harkesh Singh Sidhu IAS Deputy Commissioner	Sangruru	01672-234004		
C6	Sh. A.S. Miglani IAS Deputy Commissioner	Roop Nagar	01881-221150		
C7	Sh. Dipinder Singh IAS Deputy Commissioner	Patiala	0175-2311300		
C8	Ms Sharuti Singh IAS Deputy Commissioner	Shaheed Bhagat Singh Nagar	01823-221301		
C9	Sh. Varun Roojam IAS Deputy Commissioner	Mukatsar	01633-263643		

C10	Sh. Kumar Rahul IAS Deputy Commissioner	Mansa	01652-227700		
C11	Sh. Rahul Tiwari IAS Deputy Commissioner	Ludhiana	0161-2403100		
C12	Sh. Raj Kumar Chaudhary IAS Deputy Commissioner	Kapurthala	01822-233777		
C13	Ms Priyank Bharti IAS Deputy Commissioner	Jalandhar	0181-2224783		
C14	Sh. D.D. Dernanch IAS Deputy Commissioner	Hoshiarpur	01882-220301		
C15	Sh. Pirthi Chand IAS Deputy Commissioner	Gurdaspur	01874-247500		
C16	Sh. Kamal Kishore Yadav IAS Deputy Commissioner	Ferozepur	01632-244008		
C17	Sh. Yashvir Mahajan IAS Deputy Commissioner	Fatehgarh sahib	01763-232215		
C18	Sh. Arshdeep Singh IAS Deputy Commissioner	Barnala	01679-244360		
C19	Sh. Gurkirat Kirpal singh IAS, Deputy Commissioner	Bathinda	0164-2221042		
C20	Sh. Khushi Ram IAS Deputy Commissioner	Tarn-Taran	01852-224107		

State / UT: Rajasthan

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1	Sub Divisional Magistrate	Respective sub division			

State / UT: Tripura

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	District Magistrate & Collector	West Tripura District	(0381)232-3742/232-5713	232-6334	
2.	District Magistrate & Collector	South Tripura District	(03821)222-202	223-579	
3.	District Magistrate & Collector	North Tripura District	(03824)222-277	233-026	
4.	District Magistrate & Collector	Dhalai District, Tripura	(03826)267-214	267-215	
5.	Superintendent of Police	West Tripura *District*	(0381) 222-3586		
6.	Superintendent of Police	South Tripura District	(03821) 223-580		
7.	Superintendent of Police	Dhalai District, Tripura	(03826) 222-211		
8.	Superintendent of Police	North Tripura District	(03824) 222-392		
9.	Sub Divisional Magistrate, Sadar Sub Division	Agartala, Tripura (West)	(03825)232-5937 232-2881		
10.	Sub Divisional Magistrate, Khowai Sub Division	Khowai, Tripura (West)	(03825)222-236		
11.	Sub Divisional Magistrate, Teliamura Sub Division	Teliamra, Tripura (West)	(03825)262-622	262-241	
12.	Sub Divisional Magistrate, Sonamura Sub Division	Sonamura, Tripura (West)	(0381)2750-222	2750-222	
13.	Sub Divisional Magistrate,	Bishalgarh, Tripura (West)	(0381)236-1294	236-1294	

	Bishalgarh sub Division				
14.	Sub Divisional Magistrate, Udaipur Sub Division	Tripura (South)	(03821)223-573		
15.	Sub Divisional Magistrate, Amarpur Sub Division	Amarpura, Tripura(South)	(03821)263-226		
16.	Sub Divisional Magistrate, Belonia Sub Division	Belonia, Tripura (South)	(03823) 222-231		
17.	Sub Divisional Magistrate, Santirbazar Sub Division	Santirbazar, Tripura (South)	(03823) 272-668		
18.	Sub Divisional Magistrate, Sabroom Sub Division	Sabroom, Tripura (South)	(03823)270-225		
19.	Sub Divisional Magistrate, Ambassa Sub Division	Ambassa, Dhalai, Tripura	(03826)265-242		
20.	Sub Divisional Magistrate, Kamalpur Sub Division	Kamalpur, Dhalai, Tripura	(03826) 262-222		
21.	Sub Divisional Magistrate, Gandacharra Sub Division	Gandacharra Dhalai, Tripura	(3826) 265-242		
22.	Sub Divisional Magistrate, Longtarai Velly Sub Division	Longtarai Velly, Dhalai, Tripura	(03824) 642-206		
23.	Sub Divisional Magistrate, Dharmanagar Sub Division	Dharmanagar, Tripura (North)	(03822) 220-202	220-414	
24.	Sub Divisional Magistrate, Kailashahar Sub Division	Kailashahar, Tripura (North)	(03824) 220-202	222-218	
25.	Sub Divisional Magistrate, Kanchanpur Sub Division	Kanchanpur, Tripura (North)	(03824) 265-211	265-211	
26.	B.D.O	Bishalgarh Tripura (W)	(0381)263-1250		
27.	B.D.O	Boxanagar Tripura (W)	(0381) 285-3328		
28.	B.D.O	Dukli , Tripura (W)	(0381) 223-0926		

29.	B.D.O	Hezamara Tripura (W)	(0381) 234-3140		
30.	B.D.O	jampuijala Tripura (W)	(0381) 286-6283		
31.	B.D.O	Jirania , Tripura (W)	(0381) 234-6223		
32.	B.D.O	Kalyanpur Tripura (W)	(03825)-61375		
33.	B.D.O	Kathalia Tripura (W)	(0381) 234-6223		
34.	B.D.O	khowai Tripura (W)	(03825)-22244		
35.	B.D.O	Mandai Tripura (W)	(0381) 40-4029		
36.	B.D.O	Melaghar Tripura (W)	(0381)22991		
37.	B.D.O	Mohanpur Tripura (W)	(0381)26253		
38.	B.D.O	Mungiakami Tripura (W)	(0381)223-043		
39.	B.D.O	Padmabil Tripura (W)	(3825) 22991		
40.	B.D.O	Teliamura Tripura (W)	(03825) 26253		
41.	B.D.O	Tulashihkar Tripura (W)	(03825)223-043		
42.	B.D.O	Amarpur Tripura (South)	(03821) 263-264		
43.	B.D.O	Bakafa , Tripura (South)	(03823) 262-238		
44.	B.D.O	Hrishyamukh Tripura (South)	(03823) 268-295		
45.	B.D.O	Karbook Tripura (South)	(03821) 269-202		
46.	B.D.O	Kakraban Tripura (South)	(03821) 265-436		
47.	B.D.O	Killa Tripura (South)	(03821) 274-253		
48.	B.D.O	Matabari Tripura (South)	(03821) 223-520		

49.	B.D.O	Ompi Tripura (South)	(03821) 264-315		
50.	B.D.O	Rajnagar Tripura (South)	(03823) 264-221		
51.	B.D.O	Rupaichari Tripura (South)	(03823) 275-231		
52.	B.D.O	Satchand Tripura (South)	(03823)266-228		
53.	B.D.O	Damcharra Tripura (North)	(3822)268-203		
54.	B.D.O	Dasda, Tripura (North)	(03824) 267-265		
55.	B.D.O	Gournagar Tripura (North)	(03824)232-351		
56.	B.D.O	Jampui Hill Tripura (North)	(03824) 238-287		
57.	B.D.O	Kadamtala Tripura (North)	(03822)263-203		
58.	B.D.O	Kumarghat Tripura (North)	(03824) 261-207		
59.	B.D.O	Panisagar Tripura (North)	(03822)261-221		
60.	B.D.O	Pecharthal Tripura (North)	(03824)265-251		
61.	B.D.O	Ambassa, Dhalai, Tripura	(03826)222-360		
62.	B.D.O	Chawmanu, Dhalai, Tripura	(03824)268-222		
63.	B.D.O	Manu, Dhalia, Tripura	(03824)262-298		
65.	B.D.O	Dumburnagar, Dhalai, Tripura	(03826)265-344		
66.	B.D.O	Salema, Dhalai, Tripura	(03826)263-222		
67.	Scientific officer	West Tripura district, Gurkhabasti, Agartala	(0381)220-7751		
68.	Scientific officer	South Tripura District	(03821)222137		
69.	Scientific officer	North Tripura District, Kumarghat	(03824) 261569		
70.	Scientific officer	Dhalai District, Ambassa			
71.	Sri Sumanta Chakraborty, Executive Engineer, TSPCB	Gurkhabasti, Agartala	(0381)232-8792 2225421		
72.	Dr. Mihir kr. Das, Scientist-C,	Gurkhabasti Agartala	(0381)2222455		

	TSPCB		2225421		
73.	Sr. Amarendra Jamatia, Assistant Engineer, TSPCB	Gurkhabasti Agartala	(0381)2225421		
74.	Smt. Aparajita Das, Assistant Engineer, TSPCB	Gurkhabasti Agartala	(0381)2225421		

State / UT: West Bengal

Sl. No.	Name & Designation	Address	Telephone No.	Fax No.	Email
1.	Chief Environment officer	Department of Environment Govt. of West Bengal 4, Fairlie Place, 2nd Floor Kolkata-700001			
2.	Senior Environment officer	Department of Environment Govt. of West Bengal 4, Fairlie Place, 2nd Floor Kolkata-700001			
3.	All Engineers, Scientists and Law officers	West Bengal Pollution Control Board			

Chapter-1

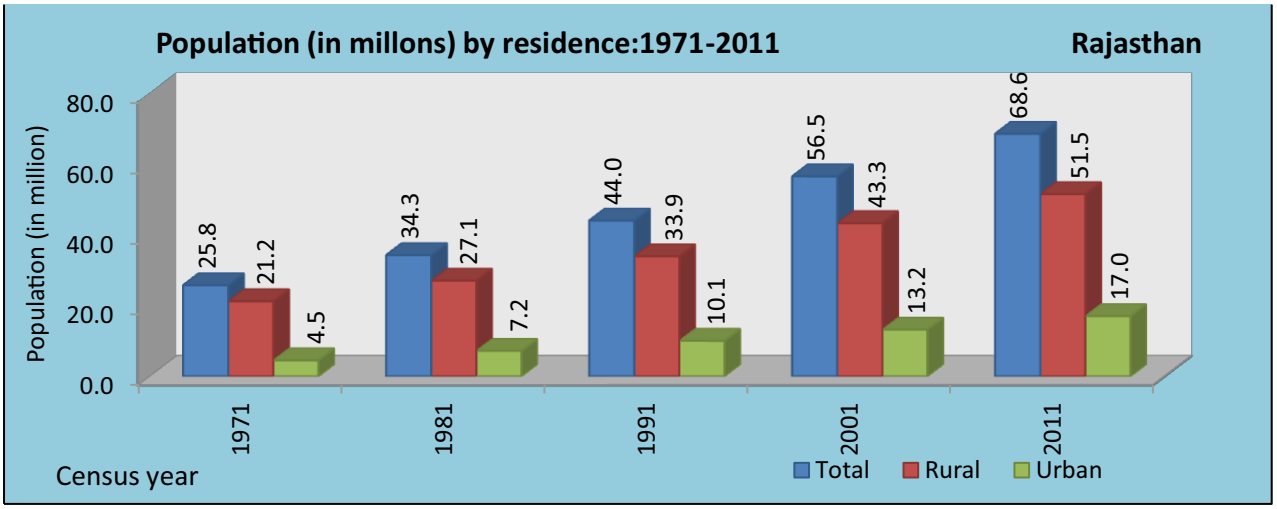
(Population, Size and Decadal Change)

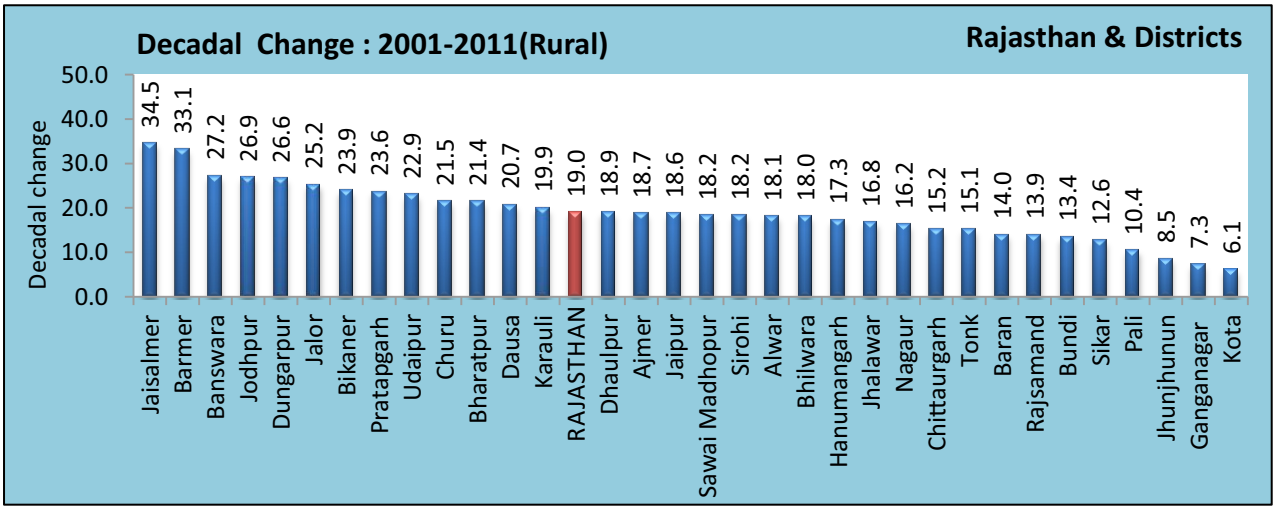
Statement - 1

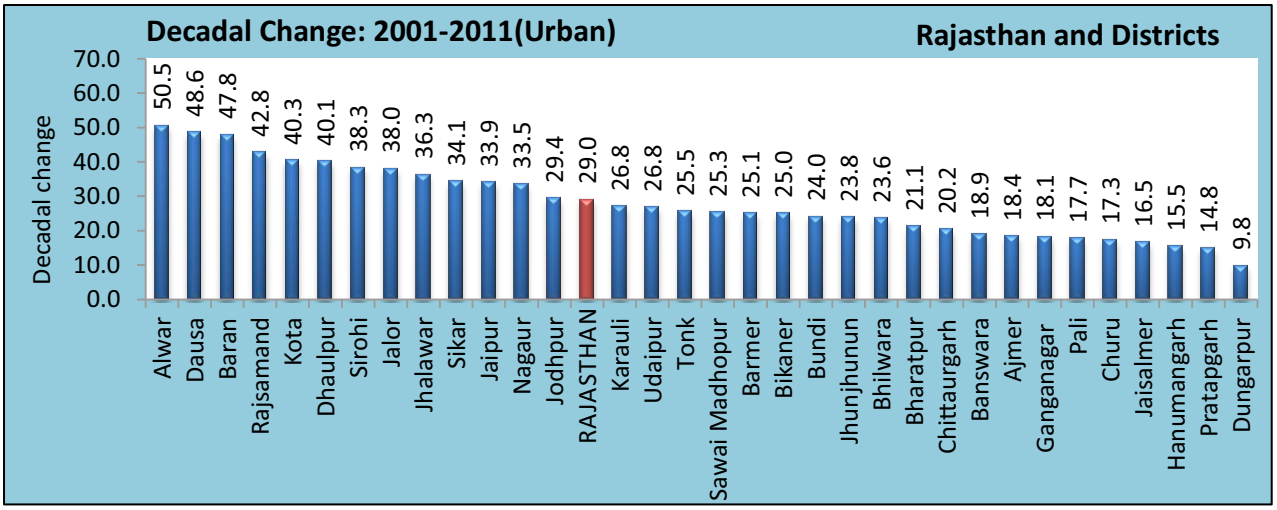
Population and decadal change by residence: 2011 (PERSONS)

State/ Dist. Code	State/ District	Population 2011			Percentage decadal change 2001-2011		
		Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8
08	**RAJASTHAN**	**68,548,437**	**51,500,352**	**17,048,085**	**21.3**	**19.0**	**29.0**
099	Ganganagar	1,969,168	1,433,736	535,432	10.0	7.3	18.1
100	Hanumangarh	1,774,692	1,424,228	350,464	16.9	17.3	15.5
101	Bikaner	2,363,937	1,563,553	800,384	24.3	23.9	25.0
102	Churu	2,039,547	1,463,312	576,235	20.3	21.5	17.3
103	Jhunjhunun	2,137,045	1,647,966	489,079	11.7	8.5	23.8
104	Alwar	3,674,179	3,019,728	654,451	22.8	18.1	50.5
105	Bharatpur	2,548,462	2,053,363	495,099	21.4	21.4	21.1
106	Dhaulpur	1,206,516	959,066	247,450	22.7	18.9	40.1
107	Karauli	1,458,248	1,240,143	218,105	20.9	19.9	26.8
108	Sawai Madhopur	1,335,551	1,069,084	266,467	19.6	18.2	25.3
109	Dausa	1,634,409	1,432,616	201,793	23.5	20.7	48.6
110	Jaipur	6,626,178	3,154,331	3,471,847	26.2	18.6	33.9
111	Sikar	2,677,333	2,043,427	633,906	17.0	12.6	34.1
112	Nagaur	3,307,743	2,670,539	637,204	19.2	16.2	33.5
113	Jodhpur	3,687,165	2,422,551	1,264,614	27.7	26.9	29.4
114	Jaisalmer	669,919	580,894	89,025	31.8	34.5	16.5
115	Barmer	2,603,751	2,421,914	181,837	32.5	33.1	25.1
116	Jalor	1,828,730	1,676,975	151,755	26.2	25.2	38.0
117	Sirohi	1,036,346	827,692	208,654	21.8	18.2	38.3
118	Pali	2,037,573	1,577,567	460,006	11.9	10.4	17.7
119	Ajmer	2,583,052	1,547,642	1,035,410	18.6	18.7	18.4
120	Tonk	1,421,326	1,103,603	317,723	17.3	15.1	25.5
121	Bundi	1,110,906	888,205	222,701	15.4	13.4	24.0
122	Bhilwara	2,408,523	1,895,869	512,654	19.2	18.0	23.6
123	Rajsamand	1,156,597	972,777	183,820	17.7	13.9	42.8
124	Dungarpur	1,388,552	1,299,809	88,743	25.4	26.6	9.8
125	Banswara	1,797,485	1,669,864	127,621	26.5	27.2	18.9
126	Chittaurgarh	1,544,338	1,259,074	285,264	16.1	15.2	20.2
127	Kota	1,951,014	774,410	1,176,604	24.4	6.1	40.3
128	Baran	1,222,755	968,541	254,214	19.7	14.0	47.8
129	Jhalawar	1,411,129	1,181,838	229,291	19.6	16.8	36.3
130	Udaipur	3,068,420	2,459,994	608,426	23.7	22.9	26.8
131	Pratapgarh	867,848	796,041	71,807	22.8	23.6	14.8

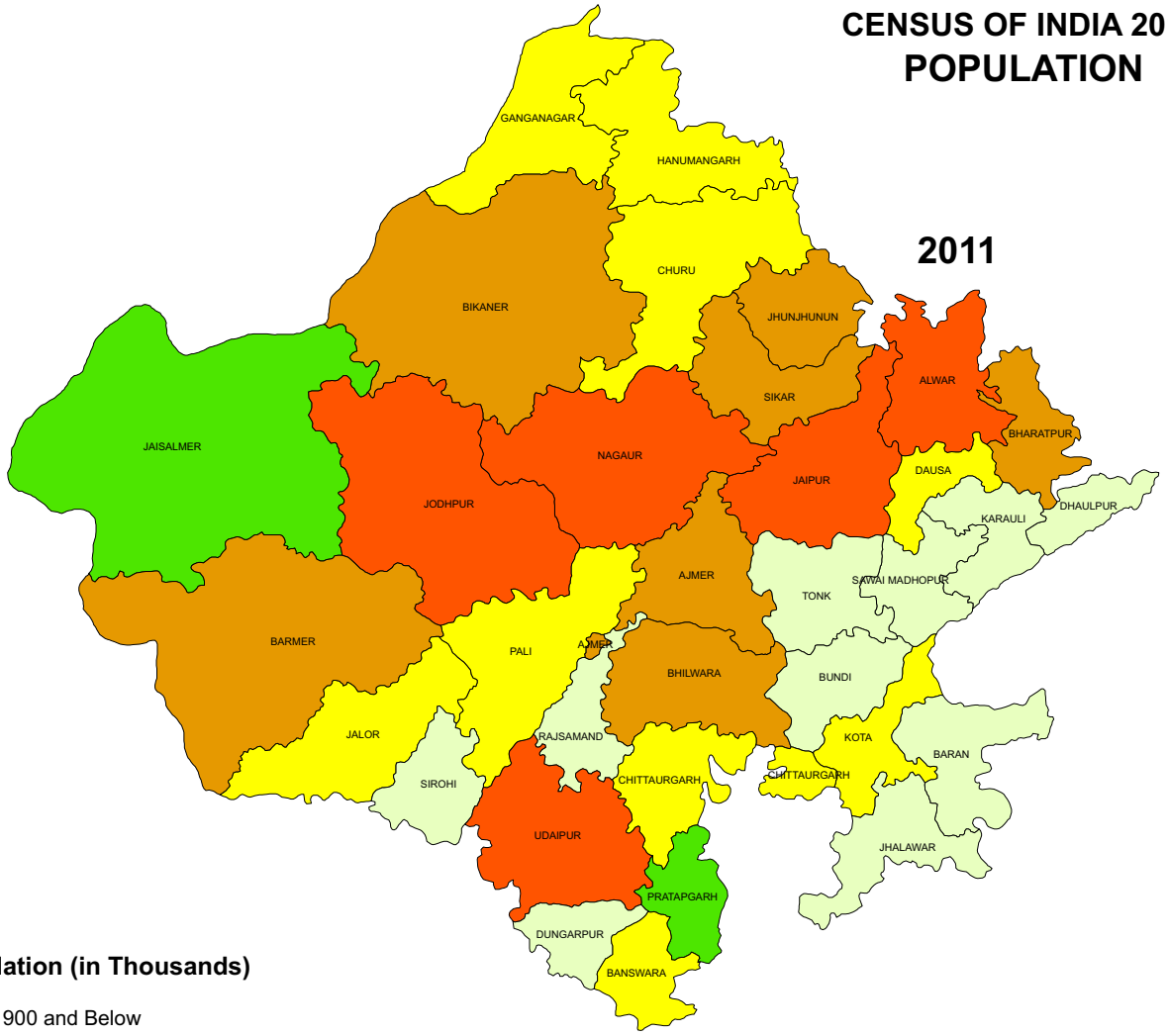
Graph – 1
Population and decadal change by residence : PERSONS





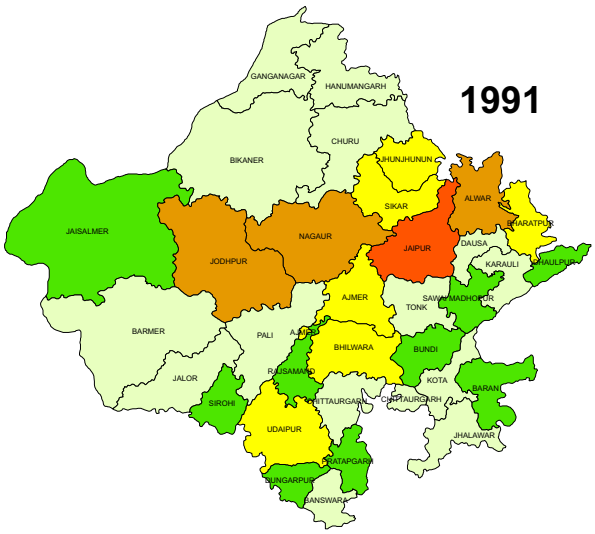


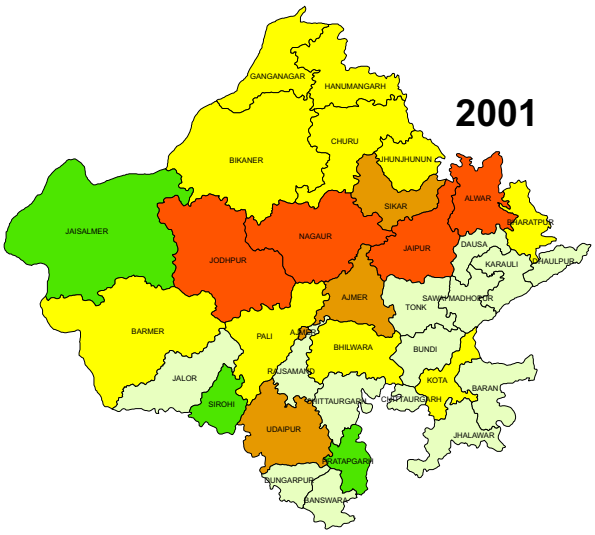
CENSUS OF INDIA 2011
POPULATION



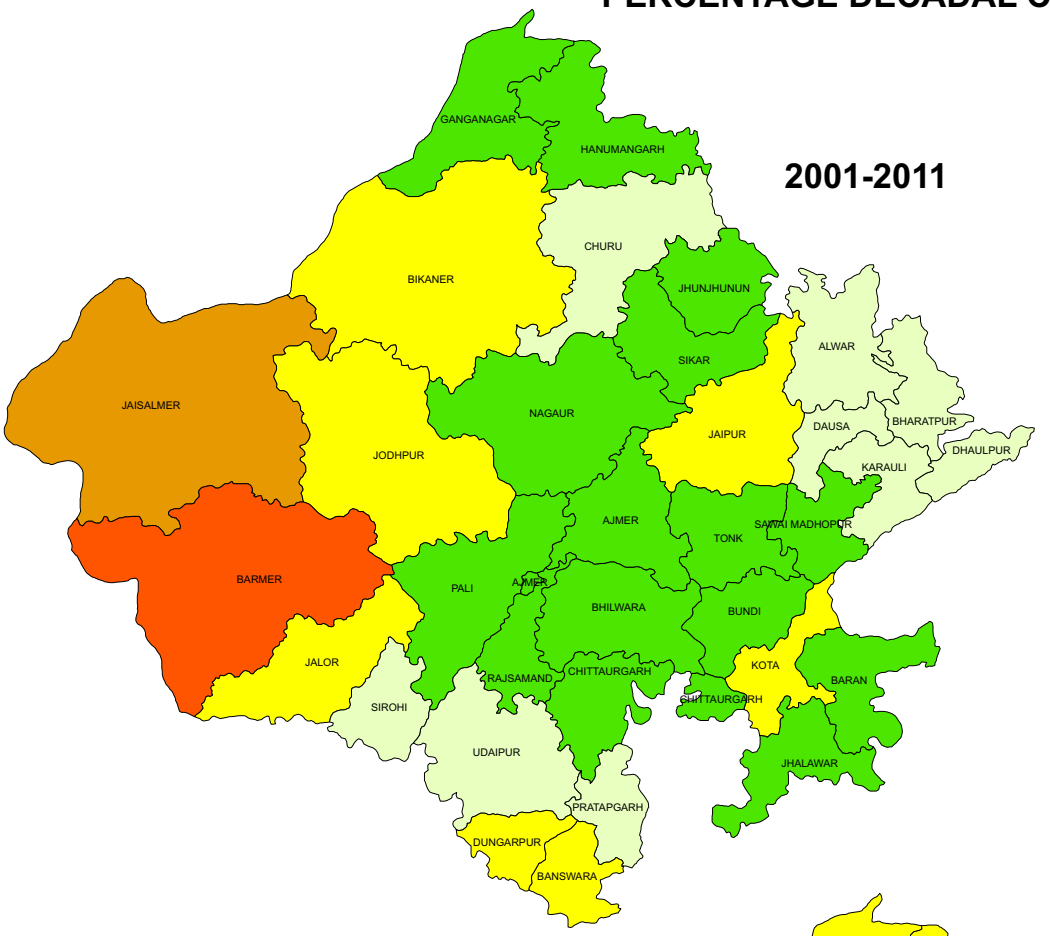
Population (in Thousands)

- 900 and Below
- 901 - 1500
- 1501 - 2100
- 2101 - 2700
- 2701 and Above



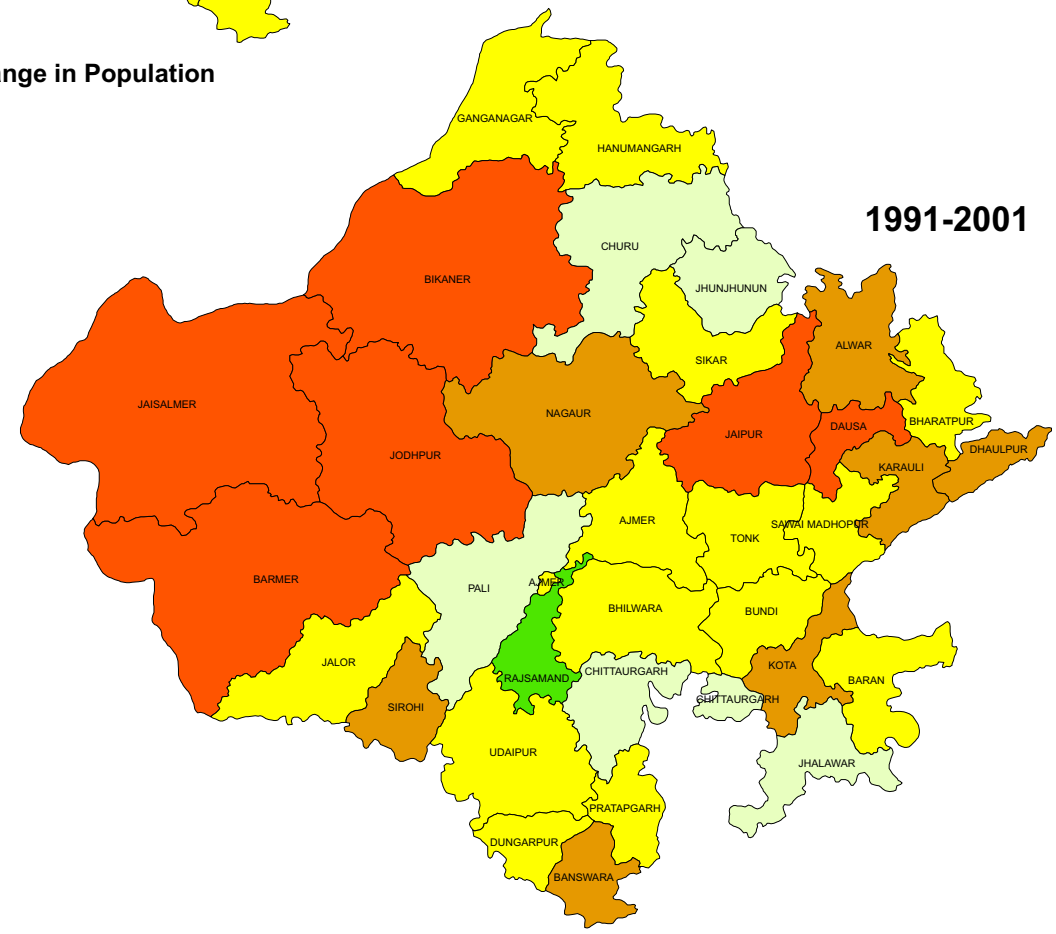


CENSUS OF INDIA 2011
PERCENTAGE DECADAL CHANGE IN POPULATION



Percentage Decadal Change in Population

- 20.0 and Below
- 20.1 - 24.0
- 24.1 - 28.0
- 28.1 - 32.0
- 32.1 and Above

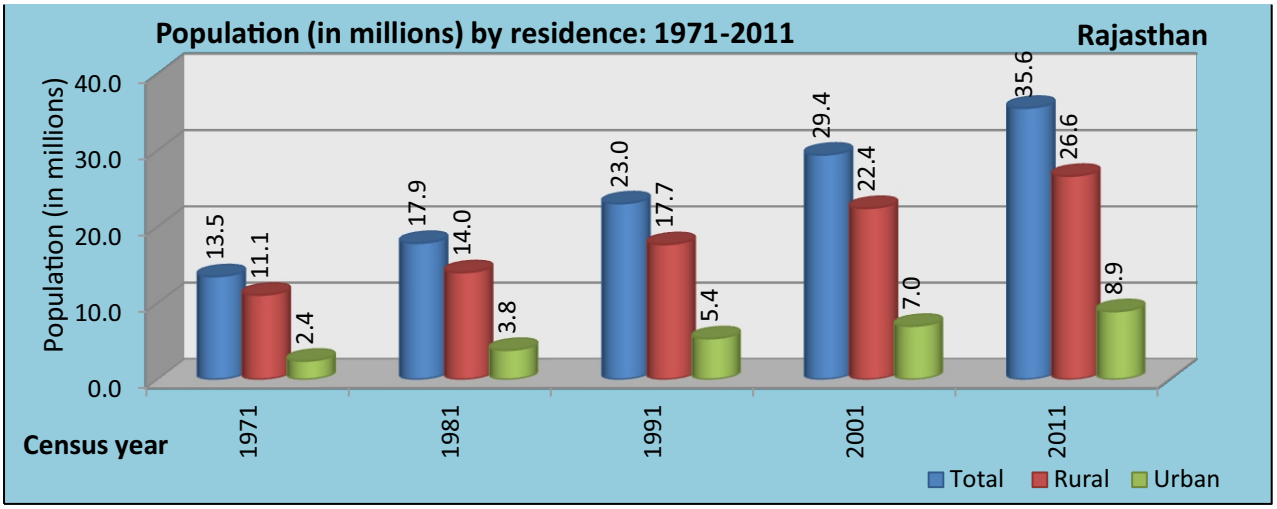


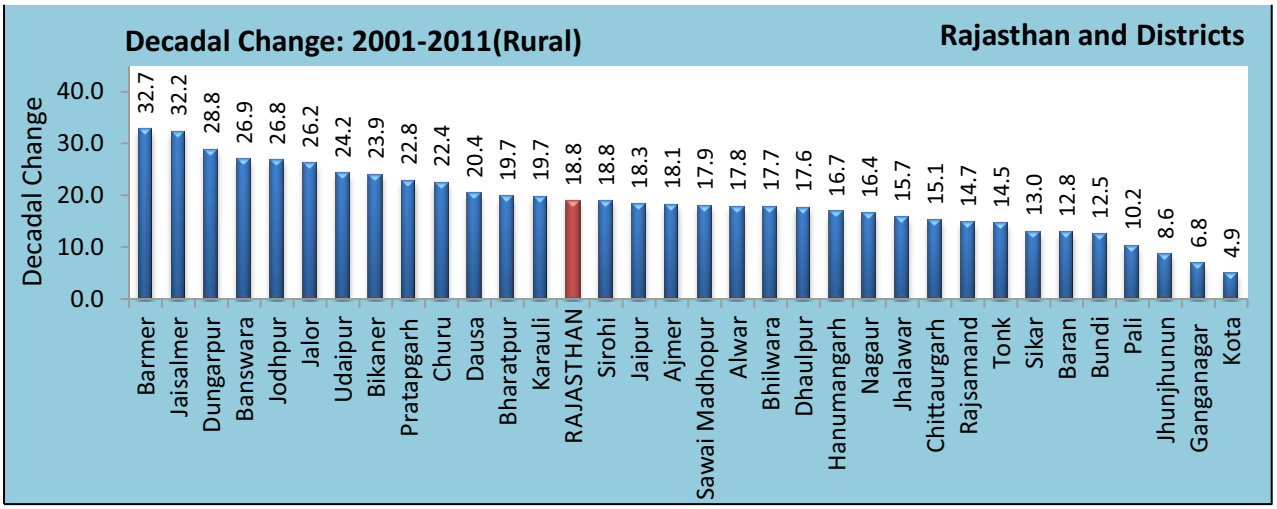
Statement - 2

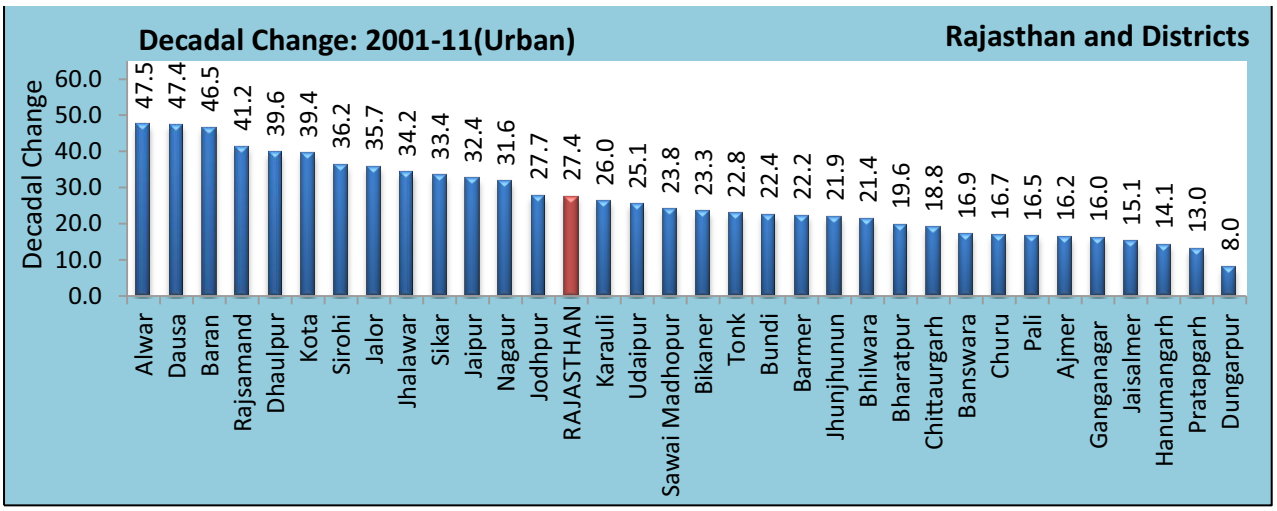
Population and decadal change by residence: 2011 (MALES)

State/ Dist. Code	State/ District	Population 2011			Percentage decadal change 2001-2011		
		Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8
08	**RAJASTHAN**	**35,550,997**	**26,641,747**	**8,909,250**	**20.8**	**18.8**	**27.4**
099	Ganganagar	1,043,340	758,269	285,071	9.2	6.8	16.0
100	Hanumangarh	931,184	746,887	184,297	16.2	16.7	14.1
101	Bikaner	1,240,801	821,434	419,367	23.7	23.9	23.3
102	Churu	1,051,446	755,028	296,418	20.7	22.4	16.7
103	Jhunjhunun	1,095,896	842,718	253,178	11.4	8.6	21.9
104	Alwar	1,939,026	1,589,508	349,518	22.2	17.8	47.5
105	Bharatpur	1,355,726	1,093,357	262,369	19.7	19.7	19.6
106	Dhaulpur	653,647	520,930	132,717	21.5	17.6	39.6
107	Karauli	783,639	668,185	115,454	20.6	19.7	26.0
108	Sawai Madhopur	704,031	564,592	139,439	19.1	17.9	23.8
109	Dausa	857,787	751,900	105,887	23.1	20.4	47.4
110	Jaipur	3,468,507	1,642,924	1,825,583	25.3	18.3	32.4
111	Sikar	1,374,990	1,047,469	327,521	17.2	13.0	33.4
112	Nagaur	1,696,325	1,368,771	327,554	19.0	16.4	31.6
113	Jodhpur	1,923,928	1,260,328	663,600	27.1	26.8	27.7
114	Jaisalmer	361,708	312,447	49,261	29.6	32.2	15.1
115	Barmer	1,369,022	1,273,249	95,773	31.9	32.7	22.2
116	Jalor	936,634	857,619	79,015	26.9	26.2	35.7
117	Sirohi	534,231	424,252	109,979	22.0	18.8	36.2
118	Pali	1,025,422	787,559	237,863	11.6	10.2	16.5
119	Ajmer	1,324,085	789,397	534,688	17.4	18.1	16.2
120	Tonk	728,136	568,045	160,091	16.2	14.5	22.8
121	Bundi	577,160	461,734	115,426	14.3	12.5	22.4
122	Bhilwara	1,220,736	955,378	265,358	18.5	17.7	21.4
123	Rajsamand	581,339	486,960	94,379	18.3	14.7	41.2
124	Dungarpur	696,532	651,046	45,486	27.2	28.8	8.0
125	Banswara	907,754	842,767	64,987	26.2	26.9	16.9
126	Chittaurgarh	783,171	636,415	146,756	15.8	15.1	18.8
127	Kota	1,021,161	401,331	619,830	23.4	4.9	39.4
128	Baran	633,945	502,228	131,717	18.5	12.8	46.5
129	Jhalawar	725,143	606,533	118,610	18.3	15.7	34.2
130	Udaipur	1,566,801	1,251,316	315,485	24.4	24.2	25.1
131	Pratapgarh	437,744	401,171	36,573	21.9	22.8	13.0

Graph – 2
Population and decadal change by residence: MALES





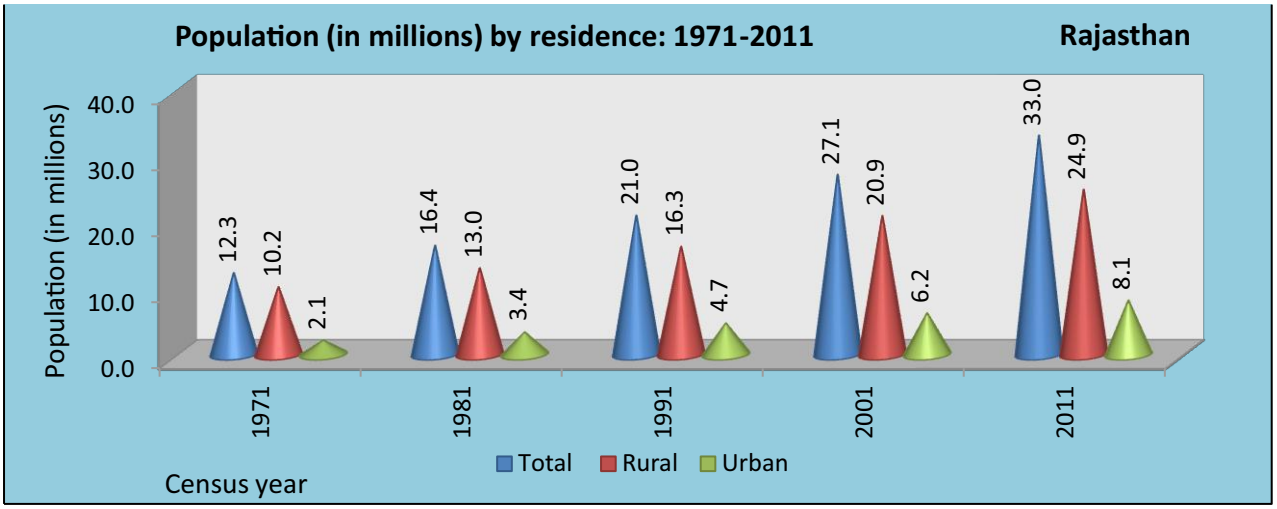


Statement - 3

Population and decadal change by residence: 2011 (FEMALES)

State/ Dist. Code	State/ District	Population 2011			Percentage decadal change 2001-2011		
		Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8
08	**RAJASTHAN**	**32,997,440**	**24,858,605**	**8,138,835**	**21.8**	**19.1**	**30.8**
099	Ganganagar	925,828	675,467	250,361	11.0	7.8	20.5
100	Hanumangarh	843,508	677,341	166,167	17.7	17.9	17.0
101	Bikaner	1,123,136	742,119	381,017	24.9	23.8	27.1
102	Churu	988,101	708,284	279,817	19.7	20.4	18.0
103	Jhunjhunun	1,041,149	805,248	235,901	11.9	8.4	25.9
104	Alwar	1,735,153	1,430,220	304,933	23.5	18.5	54.0
105	Bharatpur	1,192,736	960,006	232,730	23.3	23.5	22.8
106	Dhaulpur	552,869	438,136	114,733	24.2	20.5	40.7
107	Karauli	674,609	571,958	102,651	21.4	20.3	27.8
108	Sawai Madhopur	631,520	504,492	127,028	20.1	18.5	27.0
109	Dausa	776,622	680,716	95,906	24.0	21.0	49.9
110	Jaipur	3,157,671	1,511,407	1,646,264	27.2	19.0	35.7
111	Sikar	1,302,343	995,958	306,385	16.8	12.2	35.0
112	Nagaur	1,611,418	1,301,768	309,650	19.4	16.0	35.6
113	Jodhpur	1,763,237	1,162,223	601,014	28.5	27.0	31.4
114	Jaisalmer	308,211	268,447	39,764	34.5	37.3	18.3
115	Barmer	1,234,729	1,148,665	86,064	33.3	33.6	28.5
116	Jalor	892,096	819,356	72,740	25.5	24.3	40.6
117	Sirohi	502,115	403,440	98,675	21.5	17.6	40.7
118	Pali	1,012,151	790,008	222,143	12.3	10.5	19.0
119	Ajmer	1,258,967	758,245	500,722	19.9	19.3	20.8
120	Tonk	693,190	535,558	157,632	18.4	15.8	28.3
121	Bundi	533,746	426,471	107,275	16.6	14.5	25.9
122	Bhilwara	1,187,787	940,491	247,296	19.9	18.4	26.1
123	Rajsamand	575,258	485,817	89,441	17.1	13.1	44.5
124	Dungarpur	692,020	648,763	43,257	23.6	24.5	11.7
125	Banswara	889,731	827,097	62,634	26.9	27.4	20.9
126	Chittaurgarh	761,167	622,659	138,508	16.4	15.3	21.8
127	Kota	929,853	373,079	556,774	25.4	7.3	41.3
128	Baran	588,810	466,313	122,497	21.0	15.3	49.2
129	Jhalawar	685,986	575,305	110,681	20.9	18.0	38.6
130	Udaipur	1,501,619	1,208,678	292,941	22.9	21.6	28.7
131	Pratapgarh	430,104	394,870	35,234	23.7	24.3	16.9

Graph – 3
Population and decadal change by residence: FEMALES



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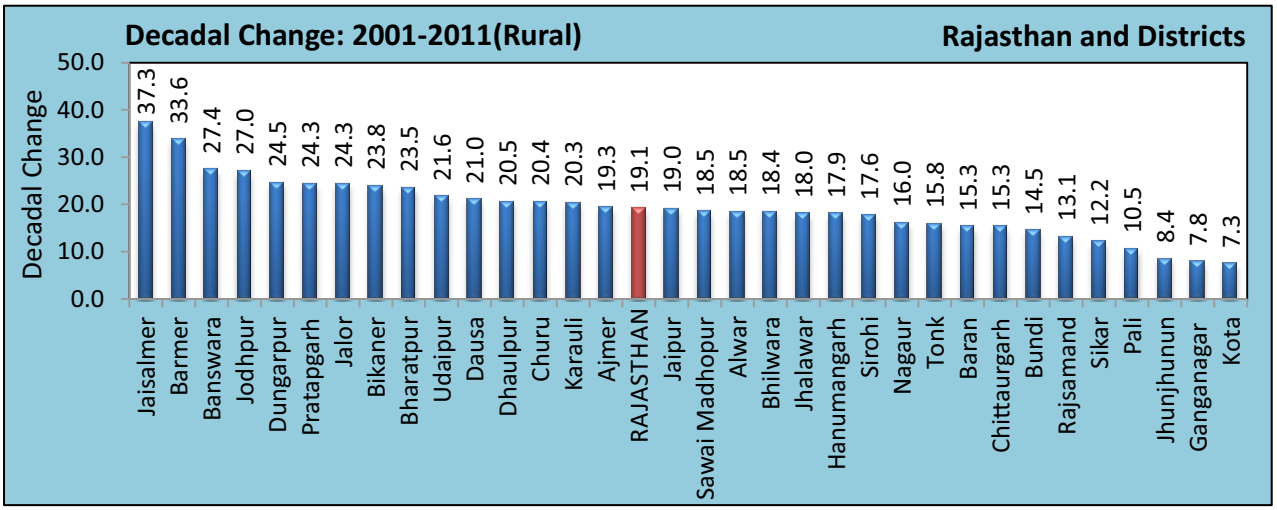

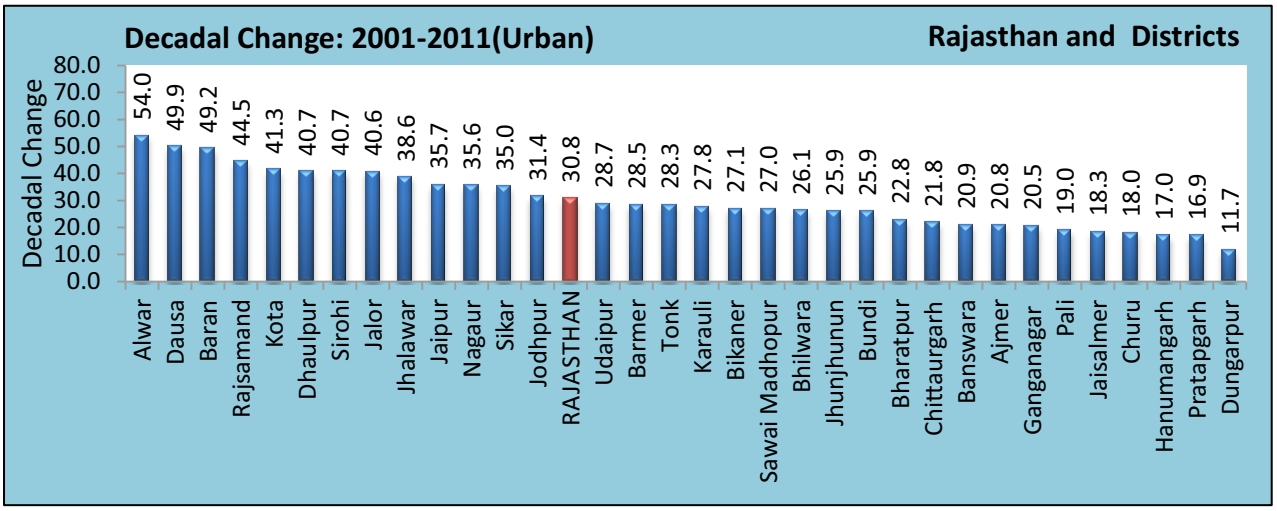

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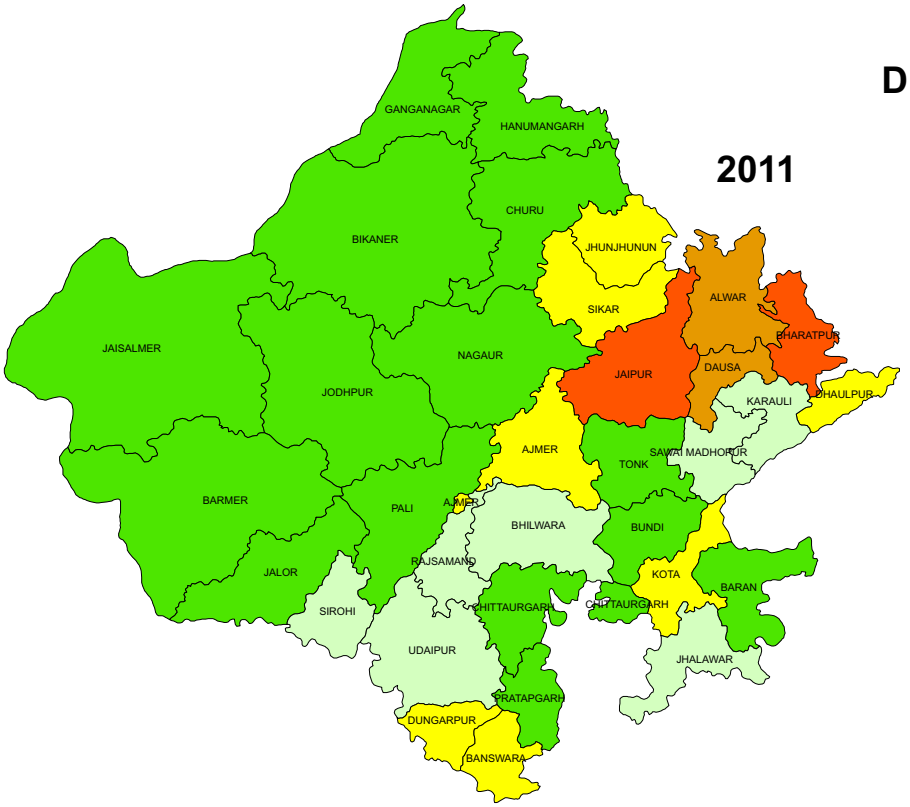
Statement - 4

Density of population (per Sq. Km.) by residence: 2001 - 2011

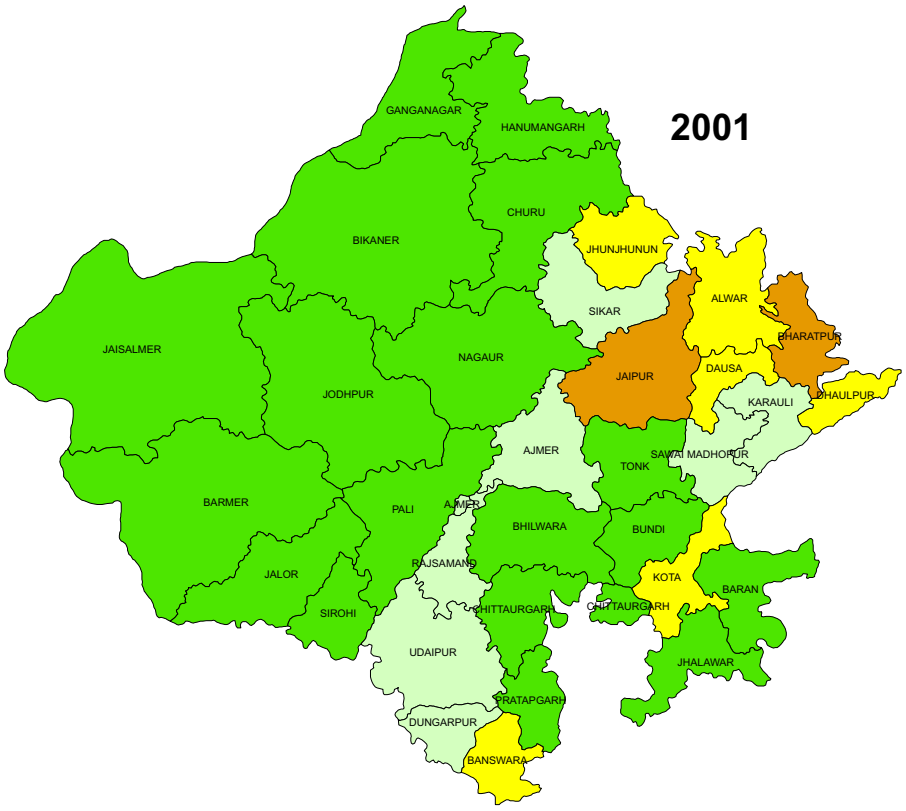
State/ Dist. Code	State/ District	Density of population (per Sq. Km.) 2001	Density of population (per Sq. Km.) 2011
1	2	3	4
08	**RAJASTHAN**	165	200
099	Ganganagar	163	179
100	Hanumangarh	157	184
101	Bikaner	63	78
102	Churu	123	147
103	Jhunjhunun	323	361
104	Alwar	357	438
105	Bharatpur	415	503
106	Dhaulpur	324	398
107	Karauli	218	264
108	Sawai Madhopur	248	297
109	Dausa	385	476
110	Jaipur	471	595
111	Sikar	296	346
112	Nagaur	157	187
113	Jodhpur	126	161
114	Jaisalmer	13	17
115	Barmer	69	92
116	Jalor	136	172
117	Sirohi	166	202
118	Pali	147	164
119	Ajmer	257	305
120	Tonk	168	198
121	Bundi	167	192
122	Bhilwara	193	230
123	Rajsamand	211	248
124	Dungarpur	294	368
125	Banswara	314	397
126	Chittaurgarh	170	197
127	Kota	301	374
128	Baran	146	175
129	Jhalawar	190	227
130	Udaipur	212	262
131	Pratapgarh	159	195

CENSUS OF INDIA 2011
DENSITY OF POPULATION



Number of Persons per Sq. Km.

- 200 and Below
- 201 - 300
- 301 - 400
- 401 - 500
- 501 and Above

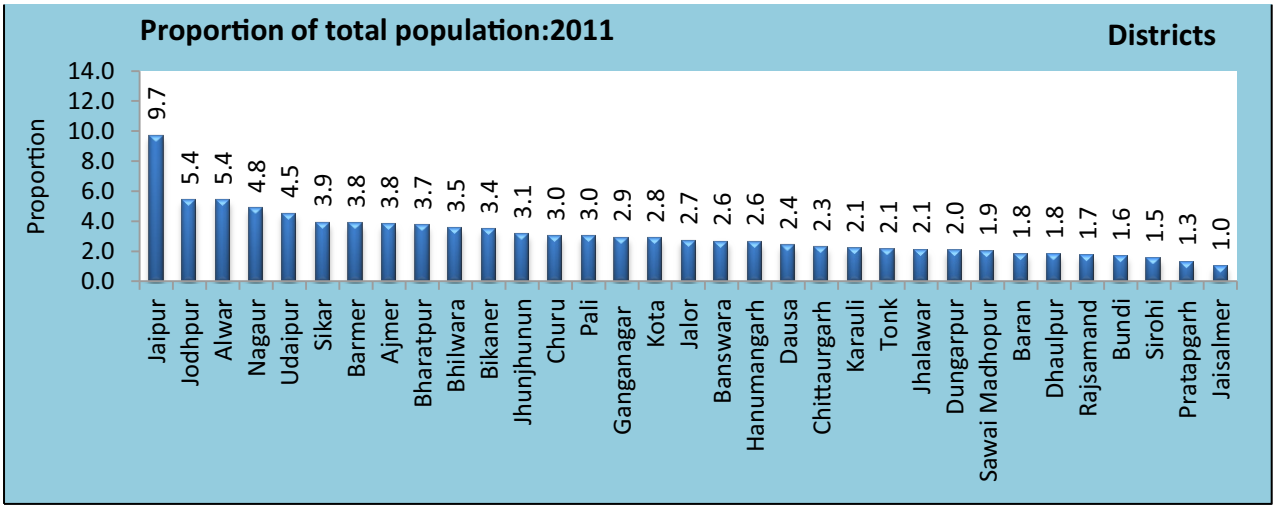


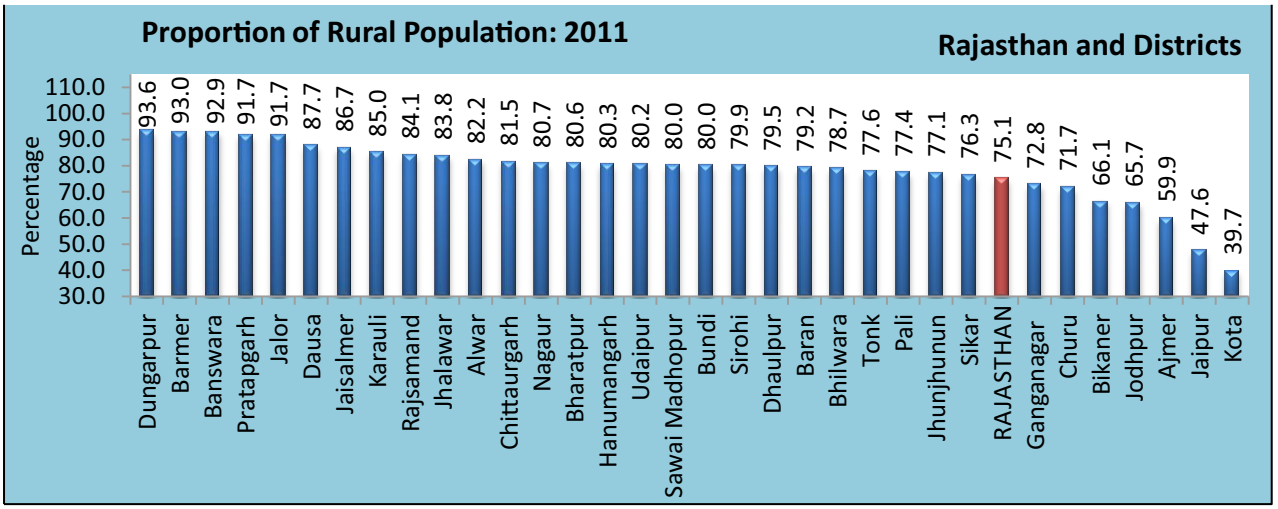
Statement - 5

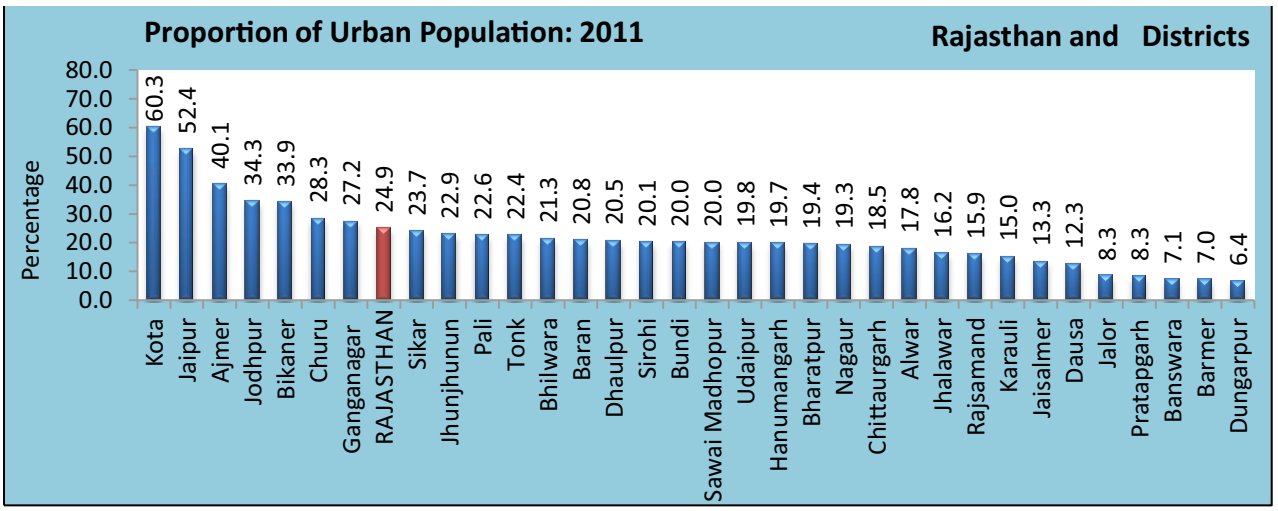
Proportion of rural and urban population: 2001-2011

State/ Dist. Code	State/ District	Proportion 2001		Proportion 2011	
		Rural	Urban	Rural	Urban
1	2	3	4	5	6
08	**RAJASTHAN**	**76.6**	**23.4**	**75.1**	**24.9**
099	Ganganagar	74.7	25.3	72.8	27.2
100	Hanumangarh	80.0	20.0	80.3	19.7
101	Bikaner	66.4	33.6	66.1	33.9
102	Churu	71.0	29.0	71.7	28.3
103	Jhunjhunun	79.4	20.6	77.1	22.9
104	Alwar	85.5	14.5	82.2	17.8
105	Bharatpur	80.5	19.5	80.6	19.4
106	Dhaulpur	82.0	18.0	79.5	20.5
107	Karauli	85.7	14.3	85.0	15.0
108	Sawai Madhopur	81.0	19.0	80.0	20.0
109	Dausa	89.7	10.3	87.7	12.3
110	Jaipur	50.6	49.4	47.6	52.4
111	Sikar	79.3	20.7	76.3	23.7
112	Nagaur	82.8	17.2	80.7	19.3
113	Jodhpur	66.1	33.9	65.7	34.3
114	Jaisalmer	85.0	15.0	86.7	13.3
115	Barmer	92.6	7.4	93.0	7.0
116	Jalor	92.4	7.6	91.7	8.3
117	Sirohi	82.3	17.7	79.9	20.1
118	Pali	78.5	21.5	77.4	22.6
119	Ajmer	59.8	40.2	59.9	40.1
120	Tonk	79.1	20.9	77.6	22.4
121	Bundi	81.3	18.7	80.0	20.0
122	Bhilwara	79.5	20.5	78.7	21.3
123	Rajsamand	86.9	13.1	84.1	15.9
124	Dungarpur	92.7	7.3	93.6	6.4
125	Banswara	92.4	7.6	92.9	7.1
126	Chittaurgarh	82.2	17.8	81.5	18.5
127	Kota	46.5	53.5	39.7	60.3
128	Baran	83.2	16.8	79.2	20.8
129	Jhalawar	85.7	14.3	83.8	16.2
130	Udaipur	80.7	19.3	80.2	19.8
131	Pratapgarh	91.2	8.8	91.7	8.3

Graph – 4
Proportion of rural and urban population





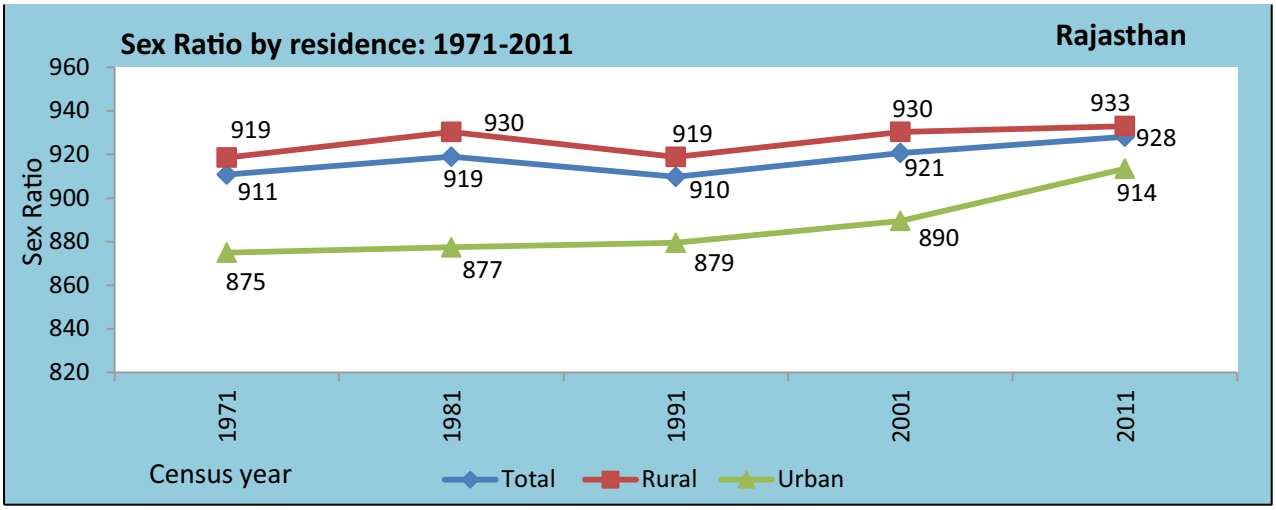


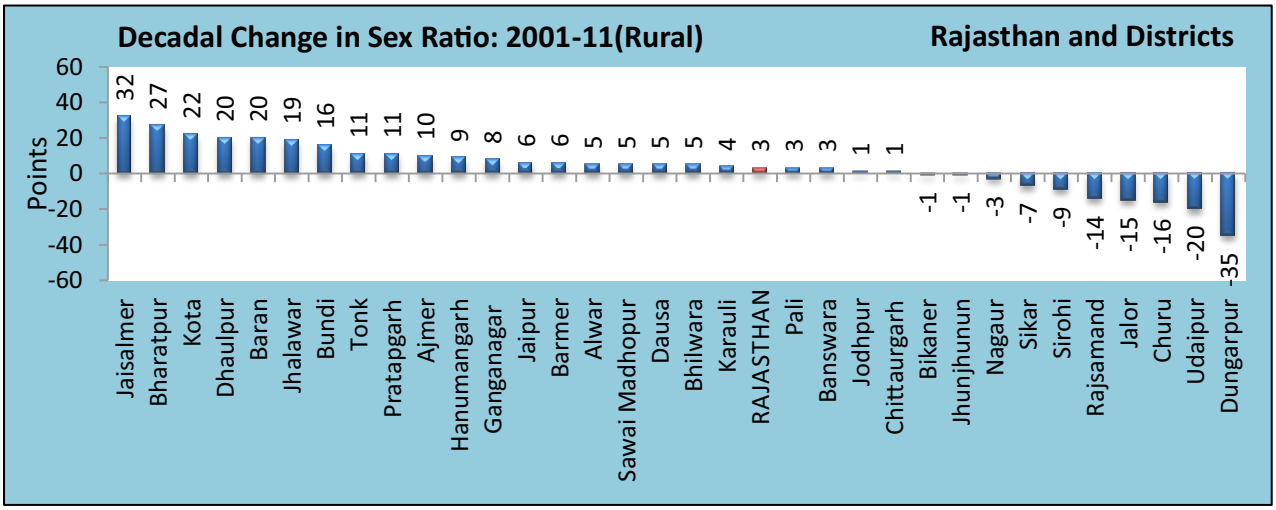
Statement - 6

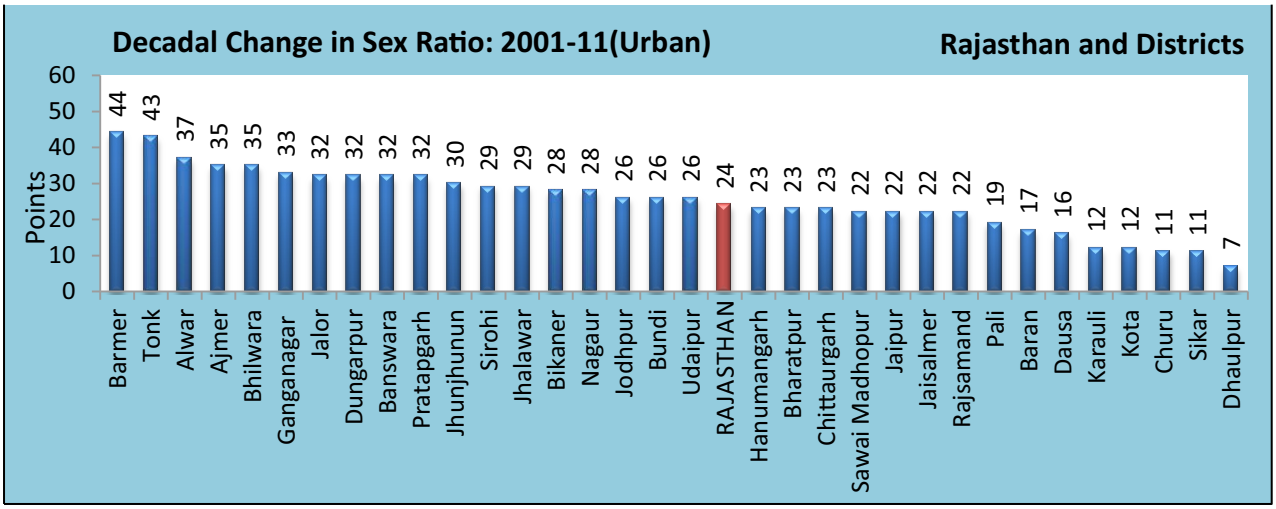
Sex Ratio (number of females per 1000 males) by residence: 2001- 2011

State/ Dist. Code	State/ District	Sex Ratio 2001			Sex Ratio 2011		
		Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8
08	**RAJASTHAN**	**921**	**930**	**890**	**928**	**933**	**914**
099	Ganganagar	873	883	845	887	891	878
100	Hanumangarh	894	898	879	906	907	902
101	Bikaner	896	904	881	905	903	909
102	Churu	948	954	933	940	938	944
103	Jhunjhunun	946	957	902	950	956	932
104	Alwar	886	895	835	895	900	872
105	Bharatpur	854	851	864	880	878	887
106	Dhaulpur	827	821	857	846	841	864
107	Karauli	855	852	877	861	856	889
108	Sawai Madhopur	889	889	889	897	894	911
109	Dausa	899	900	890	905	905	906
110	Jaipur	897	914	880	910	920	902
111	Sikar	951	958	924	947	951	935
112	Nagaur	947	954	917	950	951	945
113	Jodhpur	907	921	880	916	922	906
114	Jaisalmer	821	827	785	852	859	807
115	Barmer	892	896	855	902	902	899
116	Jalor	964	970	889	952	955	921
117	Sirohi	943	960	868	940	951	897
118	Pali	981	1000	915	987	1003	934
119	Ajmer	931	951	901	951	961	936
120	Tonk	934	932	942	952	943	985
121	Bundi	907	908	903	925	924	929
122	Bhilwara	962	979	897	973	984	932
123	Rajsamand	1000	1012	926	990	998	948
124	Dungarpur	1022	1031	919	994	996	951
125	Banswara	974	978	932	980	981	964
126	Chittaurgarh	966	977	921	972	978	944
127	Kota	896	908	886	911	930	898
128	Baran	909	908	913	929	928	930
129	Jhalawar	926	930	904	946	949	933
130	Udaipur	969	986	903	958	966	929
131	Pratapgarh	969	973	931	983	984	963

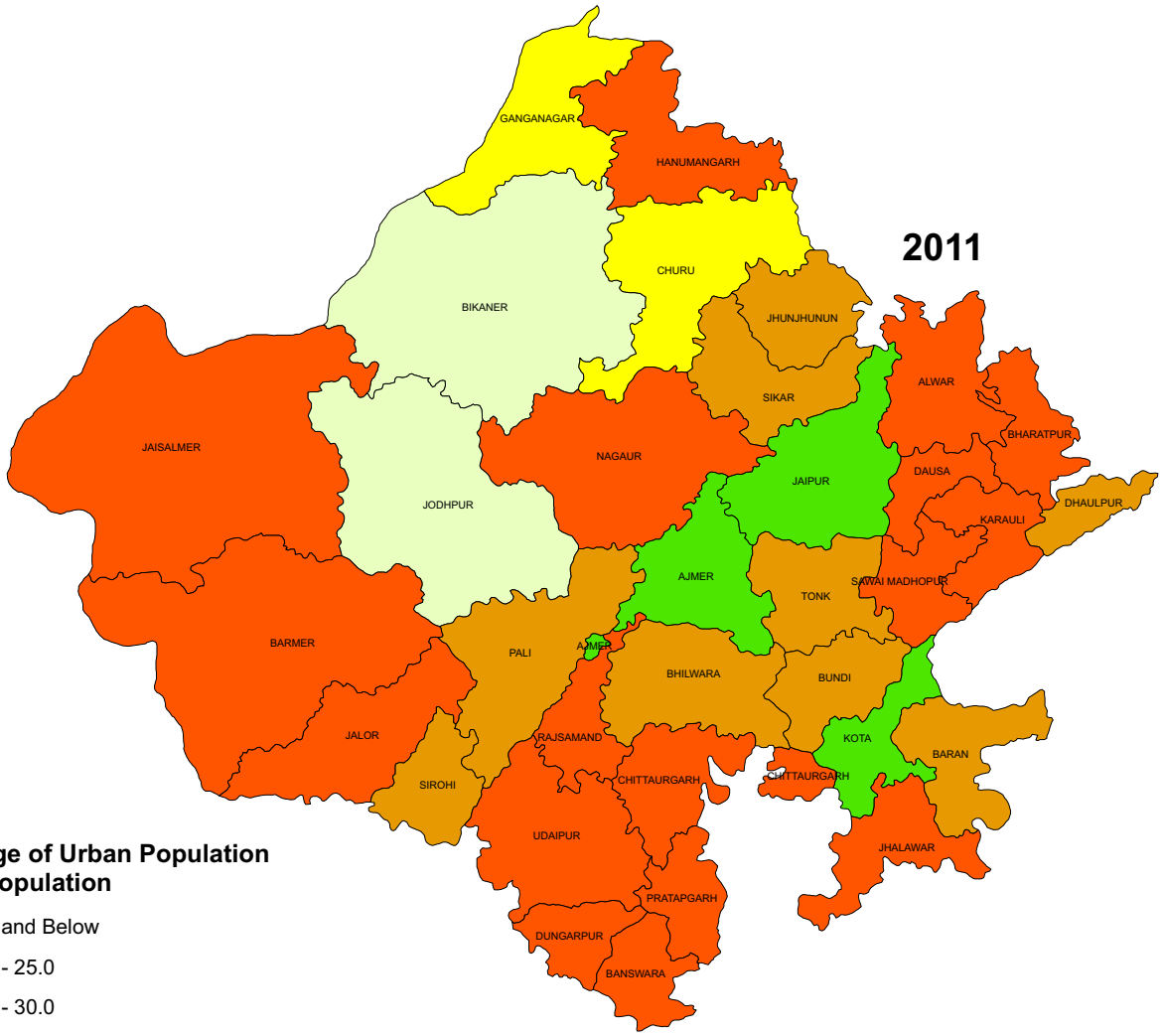
Graph – 5
Sex Ratio and decadal change by residence





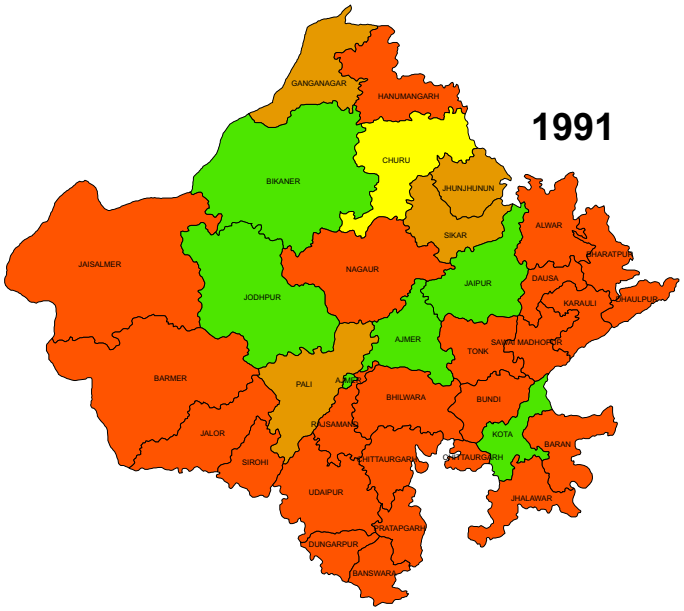


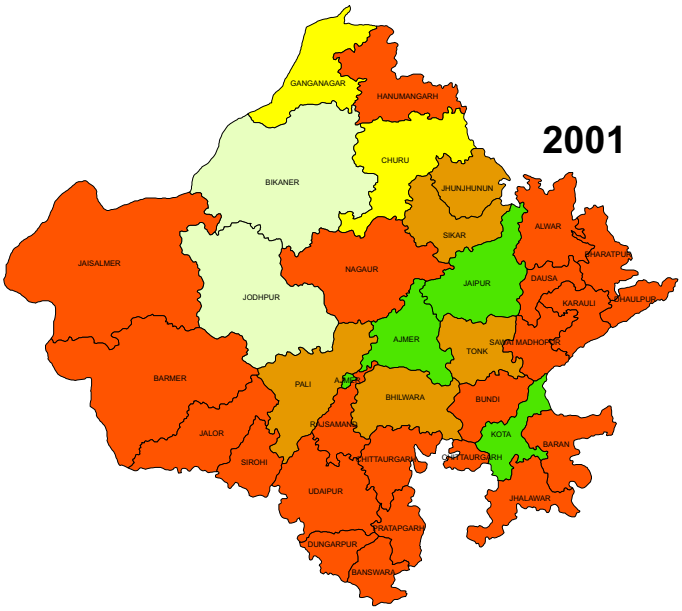
CENSUS OF INDIA 2011
PERCENTAGE OF URBAN POPULATION



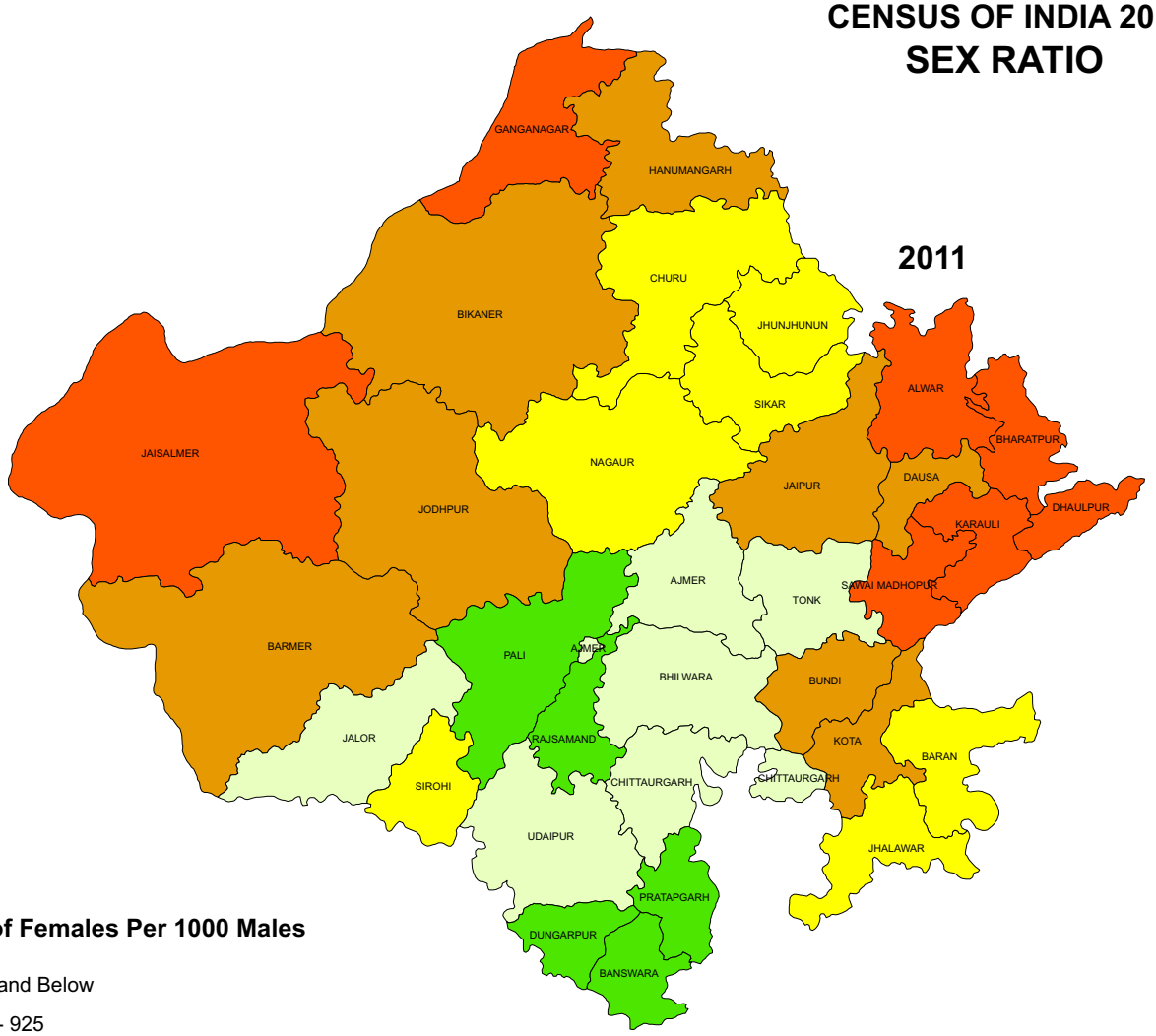
Percentage of Urban Population to Total Population

- 20.0 and Below
- 20.1 - 25.0
- 25.1 - 30.0
- 30.1 - 35.0
- 35.1 and Above



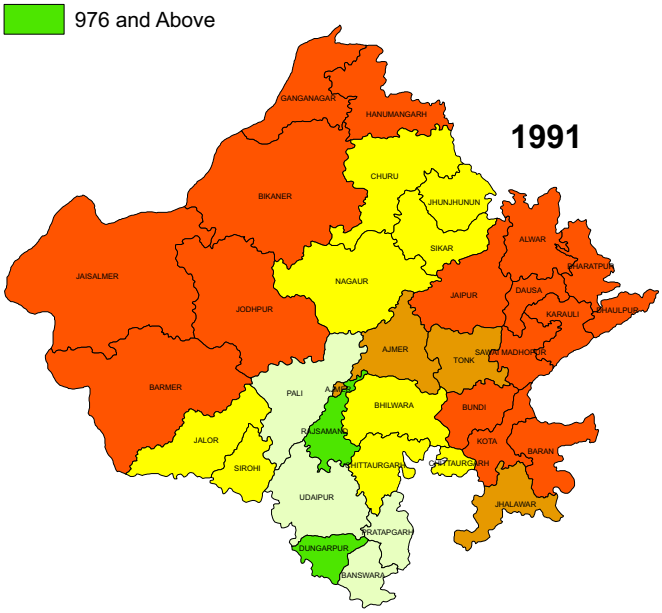


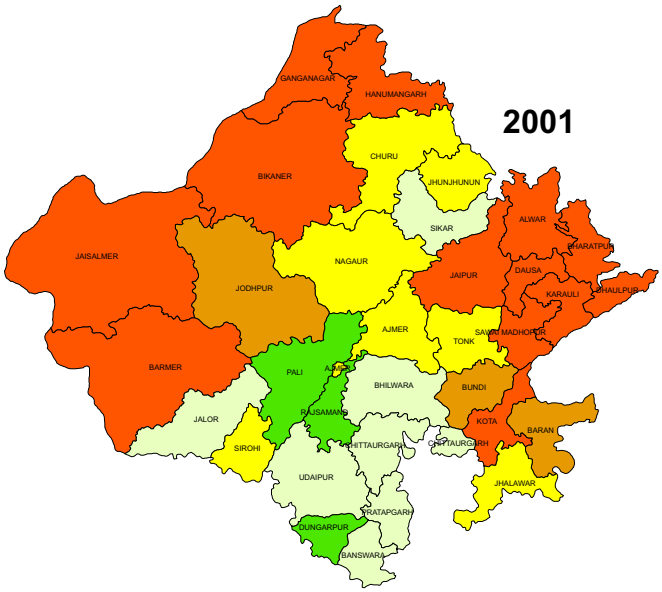
CENSUS OF INDIA 2011
SEX RATIO



Number of Females Per 1000 Males

- 900 and Below
- 901 - 925
- 926 - 950
- 951 - 975
- 976 and Above



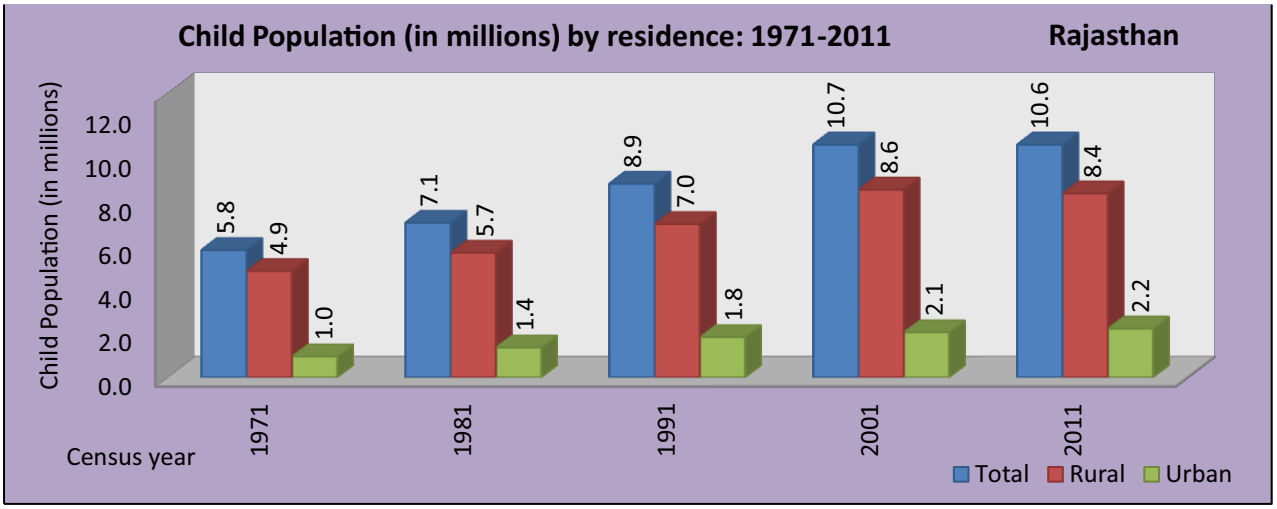


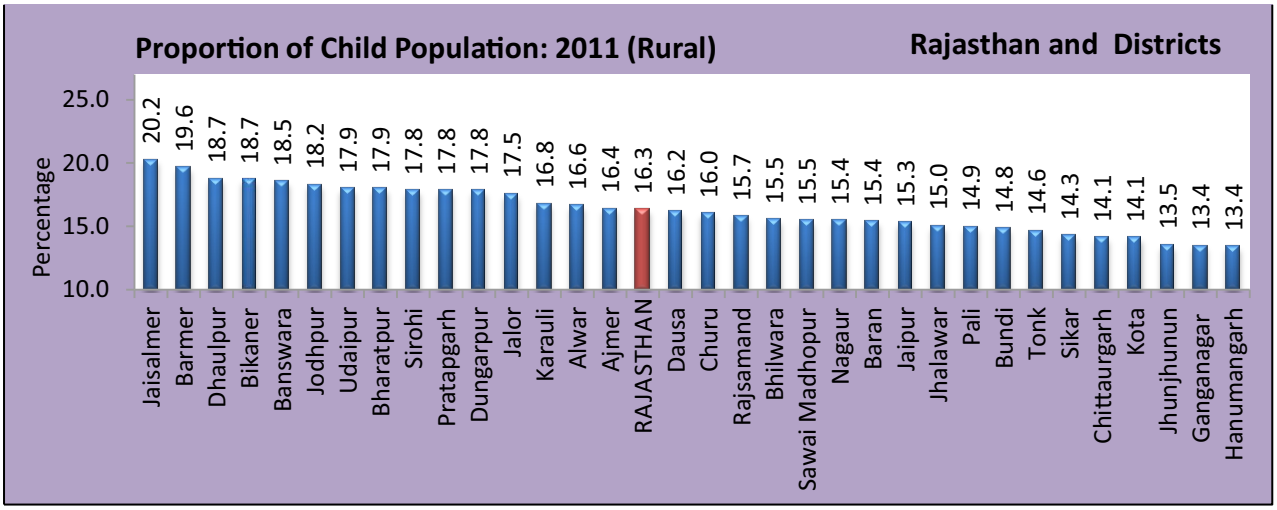
Statement - 7

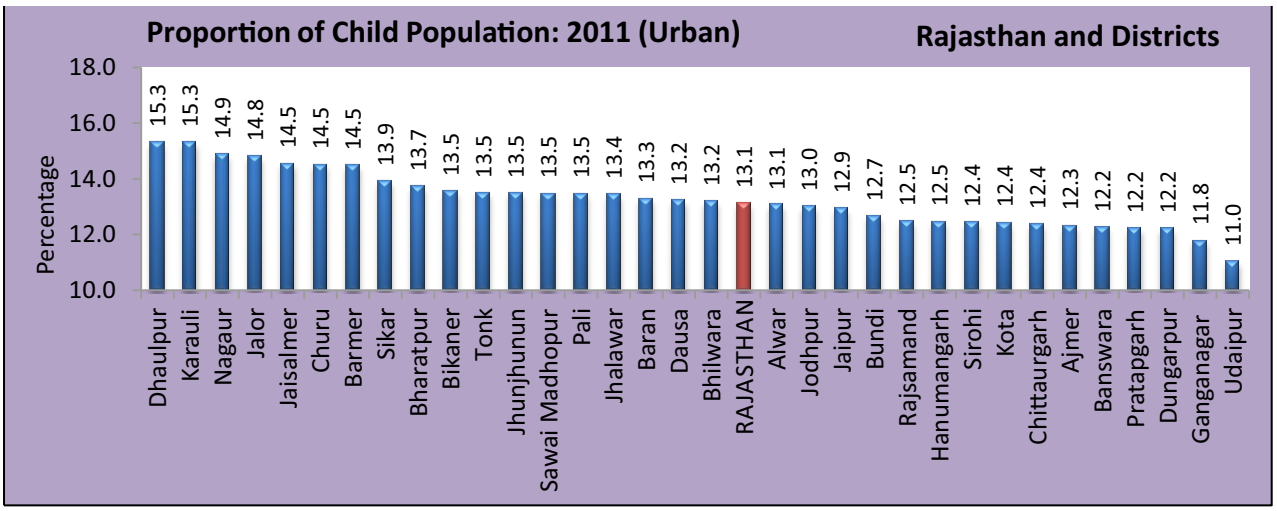
Child Population (0 - 6 years) and proportion by residence : 2011 (PERSONS)

State/ Dist. Code	State/ District	Child Population (0-6 years) 2011			Proportion of Child Population					
					2001			2011		
		Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8	9	10	11
08	**RAJASTHAN**	**10,649,504**	**8,414,883**	**2,234,621**	**18.8**	**19.8**	**15.6**	**15.5**	**16.3**	**13.1**
099	Ganganagar	255,475	192,461	63,014	16.7	17.3	14.8	13.0	13.4	11.8
100	Hanumangarh	234,226	190,563	43,663	16.9	17.2	15.4	13.2	13.4	12.5
101	Bikaner	400,554	292,132	108,422	19.9	22.3	15.1	16.9	18.7	13.5
102	Churu	317,813	234,283	83,530	19.6	20.4	17.8	15.6	16.0	14.5
103	Jhunjhunun	288,470	222,519	65,951	17.5	17.7	16.7	13.5	13.5	13.5
104	Alwar	587,959	502,526	85,433	19.4	20.2	14.8	16.0	16.6	13.1
105	Bharatpur	436,165	368,292	67,873	20.4	21.2	16.9	17.1	17.9	13.7
106	Dhaulpur	217,613	179,725	37,888	22.4	23.1	19.0	18.0	18.7	15.3
107	Karauli	241,357	207,976	33,381	20.6	20.9	18.7	16.6	16.8	15.3
108	Sawai Madhopur	201,188	165,328	35,860	18.5	19.0	16.4	15.1	15.5	13.5
109	Dausa	258,144	231,445	26,699	20.1	20.5	16.9	15.8	16.2	13.2
110	Jaipur	929,926	481,315	448,611	17.5	19.6	15.4	14.0	15.3	12.9
111	Sikar	379,874	291,732	88,142	18.3	18.6	17.2	14.2	14.3	13.9
112	Nagaur	507,176	412,432	94,744	19.0	19.2	18.0	15.3	15.4	14.9
113	Jodhpur	606,490	441,955	164,535	19.3	21.5	15.0	16.4	18.2	13.0
114	Jaisalmer	130,463	117,527	12,936	22.0	22.9	17.2	19.5	20.2	14.5
115	Barmer	501,522	475,218	26,304	22.2	22.6	16.7	19.3	19.6	14.5
116	Jalor	316,455	294,006	22,449	21.5	21.7	18.6	17.3	17.5	14.8
117	Sirohi	173,364	147,415	25,949	19.9	20.8	15.6	16.7	17.8	12.4
118	Pali	297,434	235,532	61,902	18.6	19.0	16.9	14.6	14.9	13.5
119	Ajmer	381,167	253,762	127,405	17.1	19.5	13.5	14.8	16.4	12.3
120	Tonk	204,038	161,187	42,851	18.5	18.8	17.1	14.4	14.6	13.5
121	Bundi	159,884	131,693	28,191	18.2	18.8	15.3	14.4	14.8	12.7
122	Bhilwara	361,683	294,132	67,551	17.9	18.4	15.6	15.0	15.5	13.2
123	Rajsamand	176,041	153,108	22,933	18.2	18.7	14.9	15.2	15.7	12.5
124	Dungarpur	242,239	231,406	10,833	20.9	21.4	14.2	17.4	17.8	12.2
125	Banswara	325,283	309,653	15,630	20.9	21.5	13.8	18.1	18.5	12.2
126	Chittaurgarh	212,507	177,215	35,292	16.6	16.9	15.2	13.8	14.1	12.4
127	Kota	255,056	108,851	146,205	16.0	17.8	14.4	13.1	14.1	12.4
128	Baran	182,665	148,894	33,771	18.6	18.8	17.3	14.9	15.4	13.3
129	Jhalawar	208,205	177,367	30,838	17.7	18.1	15.5	14.8	15.0	13.4
130	Udaipur	508,550	441,482	67,068	18.4	19.8	12.6	16.6	17.9	11.0
131	Pratapgarh	150,518	141,751	8,767	20.2	20.7	14.5	17.3	17.8	12.2

Graph – 6
Child Population (0 - 6 years) and proportion by residence: PERSONS





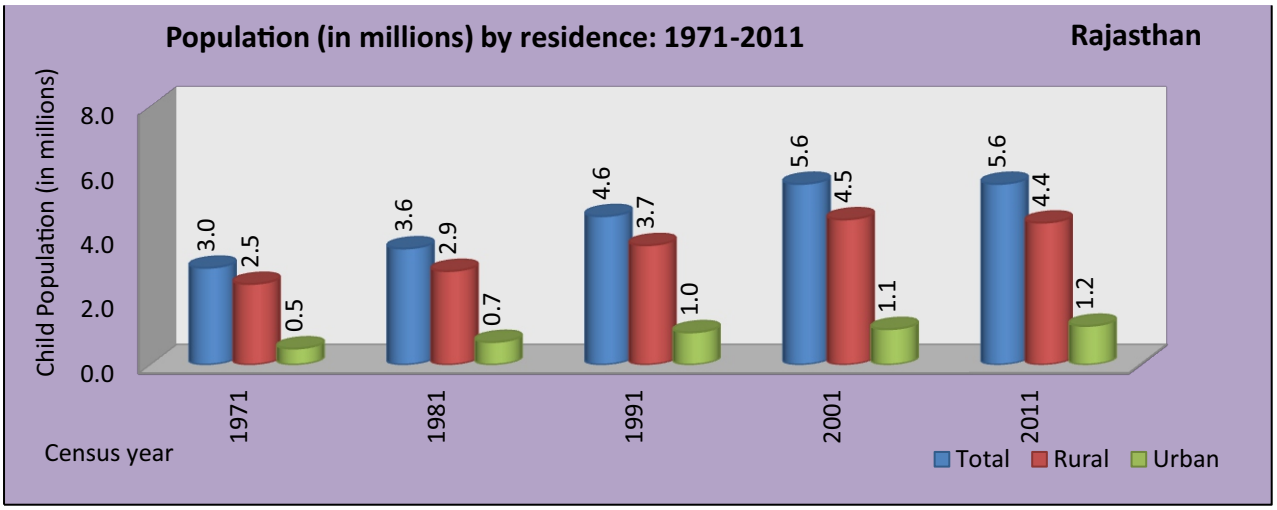


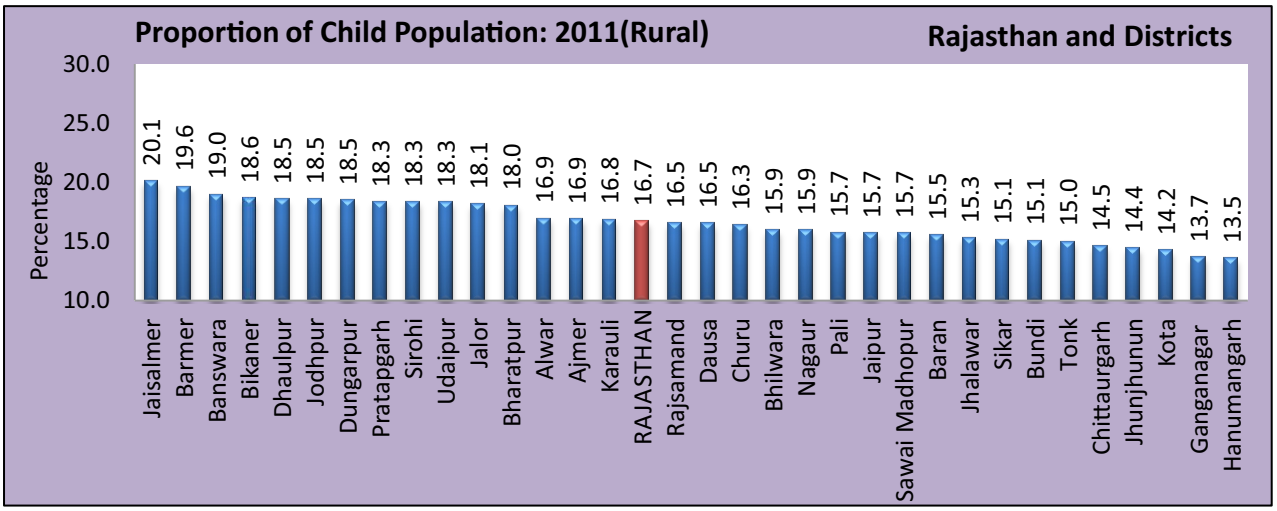
Statement - 8

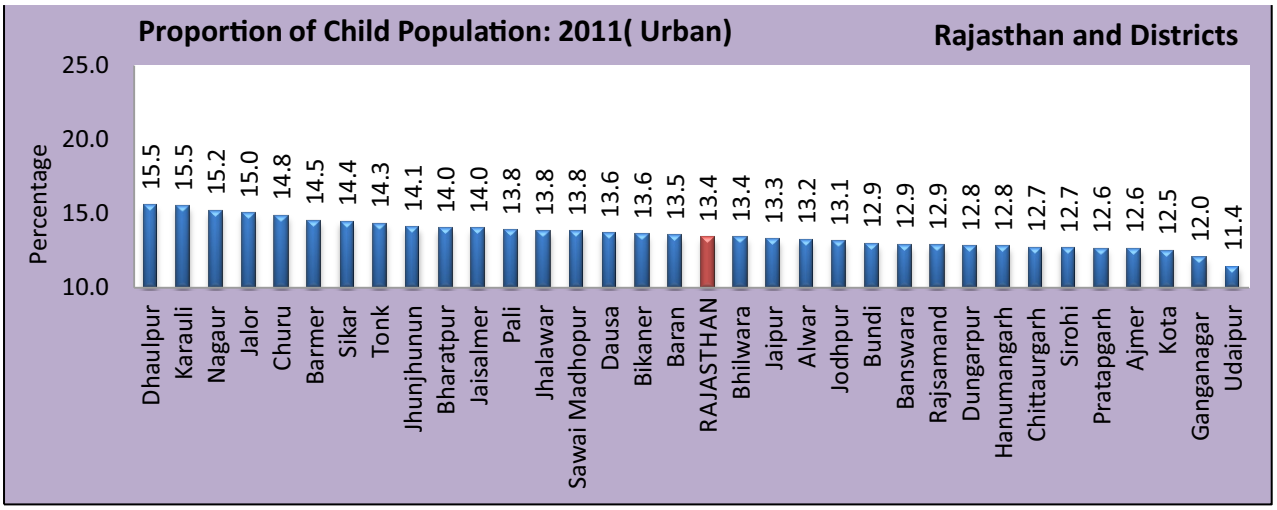
Child Population (0 - 6 years) and proportion by residence : 2011 (MALES)

State/ Dist. Code	State/ District	Child Population (0-6 years) 2011			Proportion of Child Population					
					2001			2011		
		Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8	9	10	11
08	**RAJASTHAN**	**5,639,176**	**4,446,599**	**1,192,577**	**19.0**	**20.0**	**15.6**	**15.9**	**16.7**	**13.4**
099	Ganganagar	137,768	103,551	34,217	16.9	17.5	15.0	13.2	13.7	12.0
100	Hanumangarh	124,740	101,170	23,570	17.1	17.4	15.6	13.4	13.5	12.8
101	Bikaner	209,952	153,056	56,896	19.6	22.1	14.8	16.9	18.6	13.6
102	Churu	167,084	123,099	43,985	20.1	20.8	18.2	15.9	16.3	14.8
103	Jhunjhunun	157,062	121,483	35,579	18.3	18.6	17.1	14.3	14.4	14.1
104	Alwar	315,270	269,105	46,165	19.4	20.3	14.8	16.3	16.9	13.2
105	Bharatpur	233,323	196,675	36,648	20.1	20.9	16.9	17.2	18.0	14.0
106	Dhaulpur	117,198	96,615	20,583	22.0	22.6	19.2	17.9	18.5	15.5
107	Karauli	130,294	112,407	17,887	20.4	20.7	18.6	16.6	16.8	15.5
108	Sawai Madhopur	107,557	88,362	19,195	18.4	18.9	16.3	15.3	15.7	13.8
109	Dausa	138,400	123,947	14,453	20.1	20.4	17.0	16.1	16.5	13.6
110	Jaipur	499,619	257,532	242,087	17.5	19.6	15.4	14.4	15.7	13.3
111	Sikar	205,589	158,317	47,272	18.9	19.3	17.4	15.0	15.1	14.4
112	Nagaur	267,391	217,717	49,674	19.3	19.6	18.1	15.8	15.9	15.2
113	Jodhpur	320,731	233,566	87,165	19.2	21.4	14.8	16.7	18.5	13.1
114	Jaisalmer	69,610	62,734	6,876	21.5	22.4	16.5	19.2	20.1	14.0
115	Barmer	263,356	249,480	13,876	21.9	22.3	16.3	19.2	19.6	14.5
116	Jalor	166,999	155,142	11,857	21.9	22.3	18.4	17.8	18.1	15.0
117	Sirohi	91,370	77,442	13,928	20.1	21.1	15.8	17.1	18.3	12.7
118	Pali	156,606	123,671	32,935	19.1	19.7	16.9	15.3	15.7	13.8
119	Ajmer	200,511	133,094	67,417	17.2	19.8	13.5	15.1	16.9	12.6
120	Tonk	107,868	84,980	22,888	18.5	18.9	17.3	14.8	15.0	14.3
121	Bundi	84,431	69,494	14,937	18.1	18.7	15.4	14.6	15.1	12.9
122	Bhilwara	187,617	152,140	35,477	18.0	18.6	15.6	15.4	15.9	13.4
123	Rajsamand	92,527	80,392	12,135	18.8	19.4	15.1	15.9	16.5	12.9
124	Dungarpur	126,008	120,188	5,820	21.6	22.2	14.5	18.1	18.5	12.8
125	Banswara	168,225	159,861	8,364	21.0	21.6	14.3	18.5	19.0	12.9
126	Chittaurgarh	111,120	92,471	18,649	17.0	17.3	15.3	14.2	14.5	12.7
127	Kota	134,341	56,977	77,364	15.9	17.7	14.3	13.2	14.2	12.5
128	Baran	95,542	77,773	17,769	18.5	18.7	17.3	15.1	15.5	13.5
129	Jhalawar	108,890	92,552	16,338	17.7	18.0	15.7	15.0	15.3	13.8
130	Udaipur	264,321	228,369	35,952	18.7	20.1	12.8	16.9	18.3	11.4
131	Pratapgarh	77,856	73,237	4,619	20.3	20.9	14.9	17.8	18.3	12.6

Graph – 7
Child Population (0 -6 years) and proportion by residence: MALES





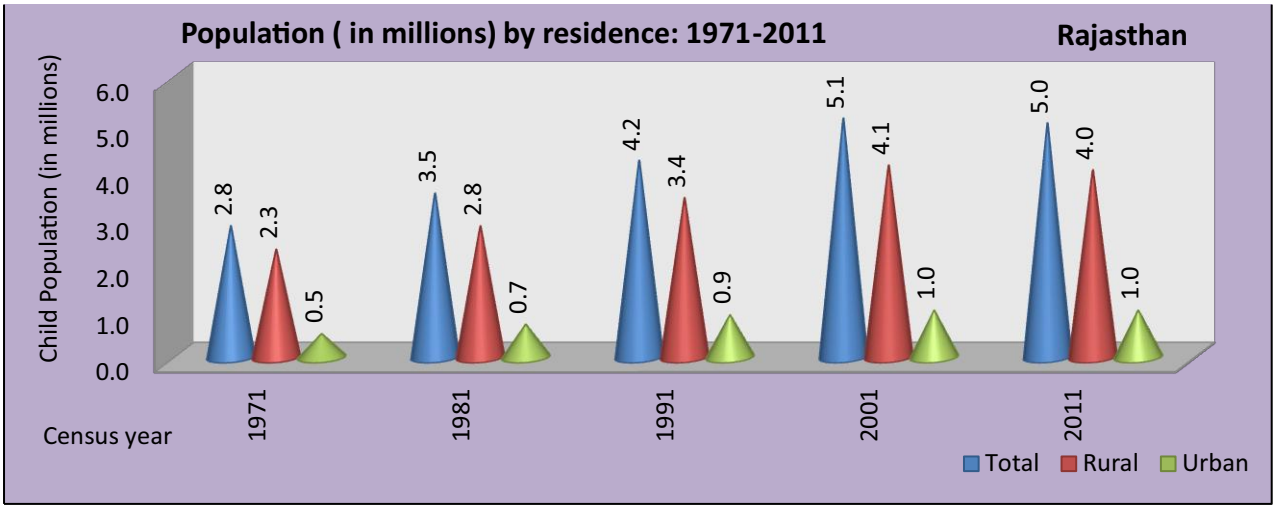


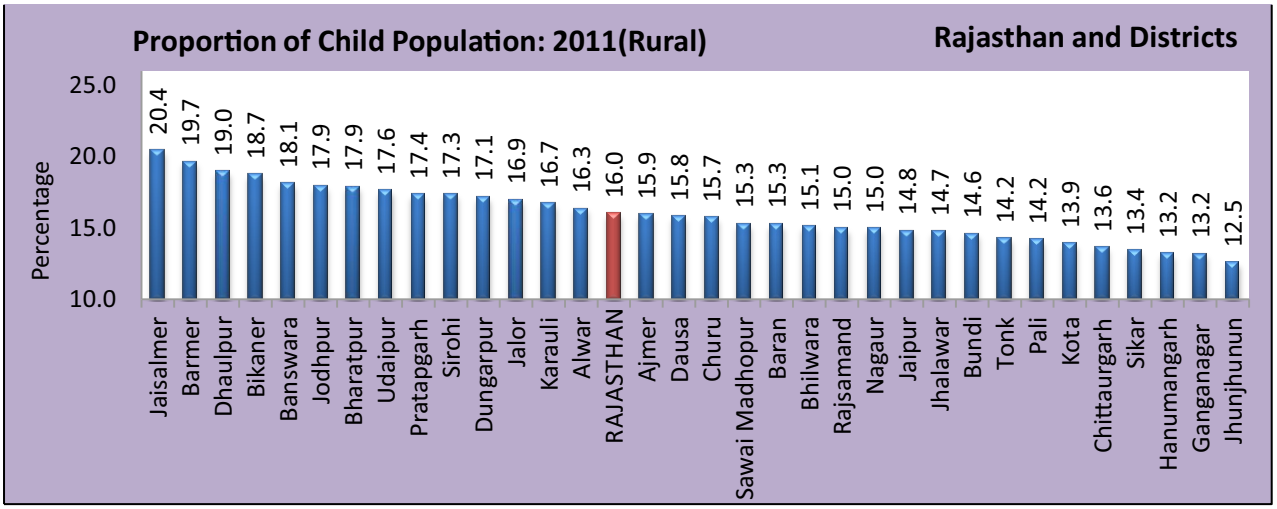
Statement - 9

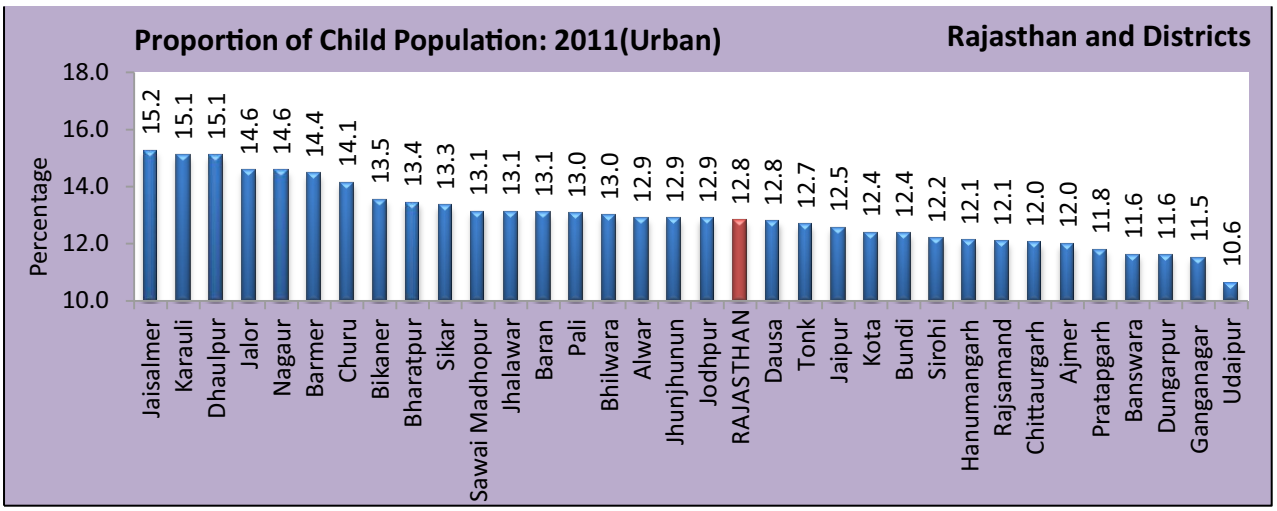
Child Population (0-6 years) and proportion by residence : 2011 (FEMALES)

State/ Dist. Code	State/ District	Child Population (0-6 years) 2011			Proportion of Child Population					
					2001			2011		
		Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8	9	10	11
08	RAJASTHAN	5,010,328	3,968,284	1,042,044	18.7	19.7	15.6	15.2	16.0	12.8
099	Ganganagar	117,707	88,910	28,797	16.4	17.1	14.5	12.7	13.2	11.5
100	Hanumangarh	109,486	89,393	20,093	16.6	17.0	15.1	13.0	13.2	12.1
101	Bikaner	190,602	139,076	51,526	20.1	22.5	15.4	17.0	18.7	13.5
102	Churu	150,729	111,184	39,545	19.2	19.9	17.5	15.3	15.7	14.1
103	Jhunjhunun	131,408	101,036	30,372	16.7	16.8	16.2	12.6	12.5	12.9
104	Alwar	272,689	233,421	39,268	19.5	20.2	14.8	15.7	16.3	12.9
105	Bharatpur	202,842	171,617	31,225	20.7	21.6	16.9	17.0	17.9	13.4
106	Dhaulpur	100,415	83,110	17,305	22.9	23.8	18.8	18.2	19.0	15.1
107	Karauli	111,063	95,569	15,494	20.8	21.2	18.9	16.5	16.7	15.1
108	Sawai Madhopur	93,631	76,966	16,665	18.6	19.1	16.6	14.8	15.3	13.1
109	Dausa	119,744	107,498	12,246	20.2	20.6	16.8	15.4	15.8	12.8
110	Jaipur	430,307	223,783	206,524	17.5	19.5	15.4	13.6	14.8	12.5
111	Sikar	174,285	133,415	40,870	17.6	17.8	16.9	13.4	13.4	13.3
112	Nagaur	239,785	194,715	45,070	18.6	18.8	18.0	14.9	15.0	14.6
113	Jodhpur	285,759	208,389	77,370	19.5	21.6	15.2	16.2	17.9	12.9
114	Jaisalmer	60,853	54,793	6,060	22.7	23.5	18.0	19.7	20.4	15.2
115	Barmer	238,166	225,738	12,428	22.5	22.9	17.1	19.3	19.7	14.4
116	Jalor	149,456	138,864	10,592	21.0	21.2	18.8	16.8	16.9	14.6
117	Sirohi	81,994	69,973	12,021	19.6	20.4	15.4	16.3	17.3	12.2
118	Pali	140,828	111,861	28,967	18.0	18.3	16.9	13.9	14.2	13.0
119	Ajmer	180,656	120,668	59,988	17.0	19.3	13.6	14.3	15.9	12.0
120	Tonk	96,170	76,207	19,963	18.4	18.8	16.9	13.9	14.2	12.7
121	Bundi	75,453	62,199	13,254	18.2	18.9	15.1	14.1	14.6	12.4
122	Bhilwara	174,066	141,992	32,074	17.7	18.2	15.7	14.7	15.1	13.0
123	Rajsamand	83,514	72,716	10,798	17.6	18.0	14.8	14.5	15.0	12.1
124	Dungarpur	116,231	111,218	5,013	20.2	20.7	13.9	16.8	17.1	11.6
125	Banswara	157,058	149,792	7,266	20.8	21.4	13.3	17.7	18.1	11.6
126	Chittaurgarh	101,387	84,744	16,643	16.2	16.5	15.1	13.3	13.6	12.0
127	Kota	120,715	51,874	68,841	16.1	17.9	14.6	13.0	13.9	12.4
128	Baran	87,123	71,121	16,002	18.7	18.9	17.3	14.8	15.3	13.1
129	Jhalawar	99,315	84,815	14,500	17.8	18.2	15.4	14.5	14.7	13.1
130	Udaipur	244,229	213,113	31,116	18.2	19.5	12.5	16.3	17.6	10.6
131	Pratapgarh	72,662	68,514	4,148	20.0	20.6	14.1	16.9	17.4	11.8

Graph – 8
Child Population (0-6 years) and proportion by residence : FEMALES





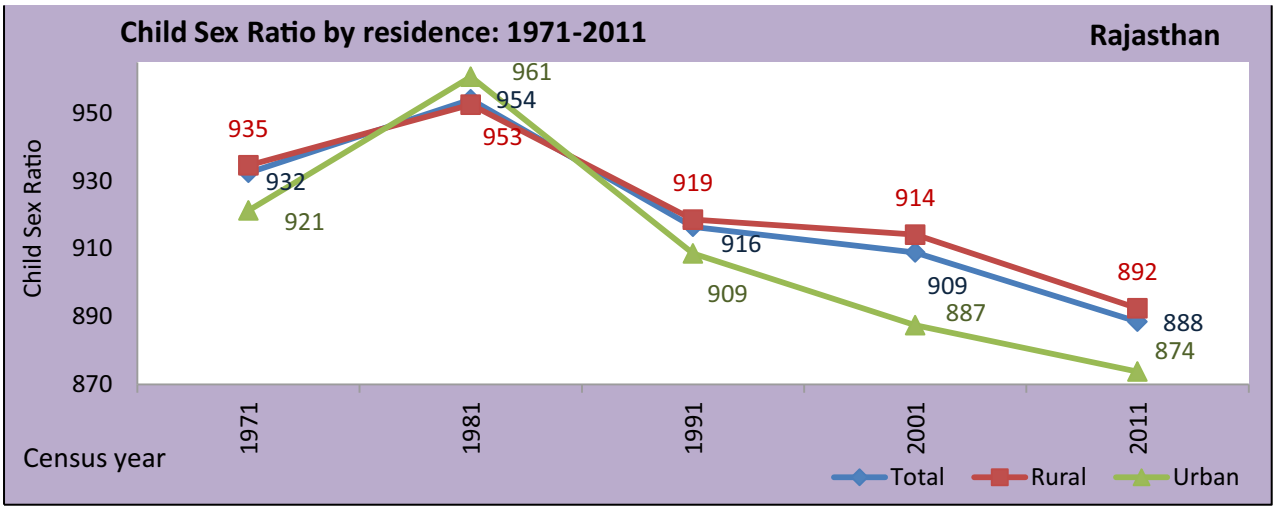


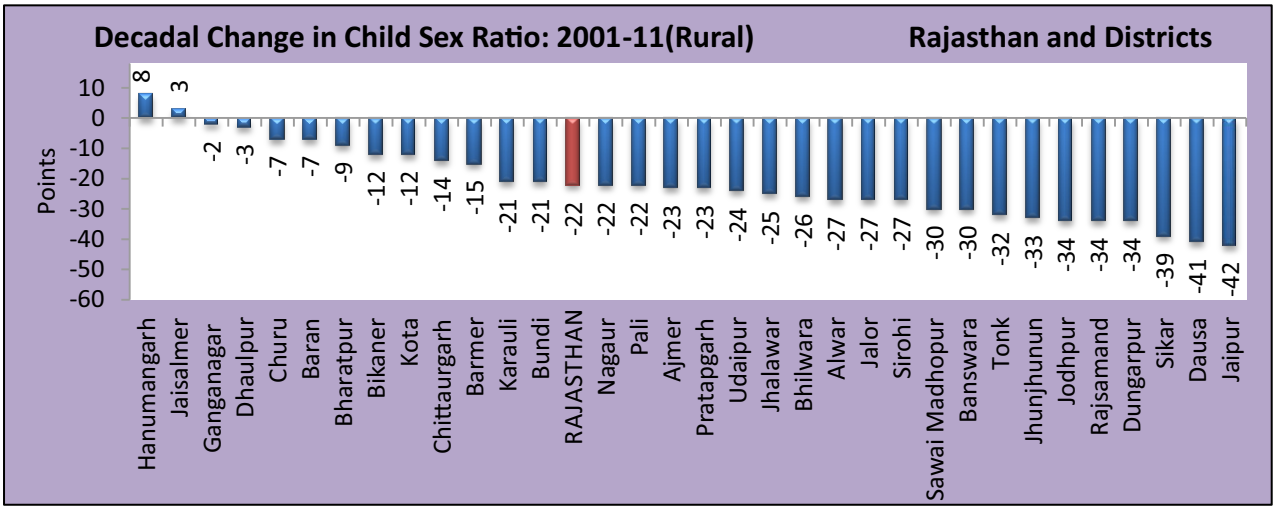
Statement - 10

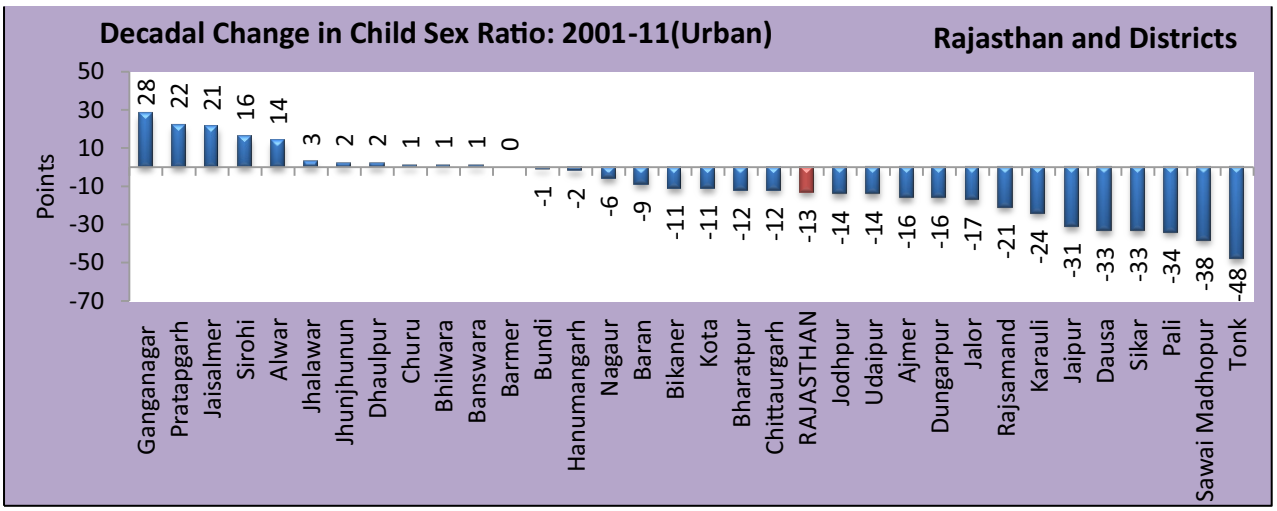
Child Sex Ratio (0-6 years) by residence : 2001-2011

State/ Dist. Code	State/ District	Child Sex Ratio (0-6 years) 2001			Child Sex Ratio (0-6 years) 2011		
		Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8
08	**RAJASTHAN**	**909**	**914**	**887**	**888**	**892**	**874**
099	Ganganagar	850	861	814	854	859	842
100	Hanumangarh	872	876	854	878	884	852
101	Bikaner	920	921	917	908	909	906
102	Churu	906	910	898	902	903	899
103	Jhunjhunun	863	865	852	837	832	854
104	Alwar	887	894	837	865	867	851
105	Bharatpur	879	882	864	869	873	852
106	Dhaulpur	860	863	839	857	860	841
107	Karauli	873	871	890	852	850	866
108	Sawai Madhopur	902	901	906	871	871	868
109	Dausa	906	908	880	865	867	847
110	Jaipur	899	911	884	861	869	853
111	Sikar	885	882	898	848	843	865
112	Nagaur	915	916	913	897	894	907
113	Jodhpur	920	926	902	891	892	888
114	Jaisalmer	869	870	860	874	873	881
115	Barmer	919	920	896	904	905	896
116	Jalor	921	922	910	895	895	893
117	Sirohi	918	931	847	897	904	863
118	Pali	925	927	914	899	905	880
119	Ajmer	922	930	906	901	907	890
120	Tonk	927	929	920	892	897	872
121	Bundi	912	916	888	894	895	887
122	Bhilwara	949	959	903	928	933	904
123	Rajsamand	936	939	911	903	905	890
124	Dungarpur	955	959	877	922	925	861
125	Banswara	962	967	868	934	937	869
126	Chittaurgarh	926	930	904	912	916	892
127	Kota	912	922	901	899	910	890
128	Baran	919	921	910	912	914	901
129	Jhalawar	934	941	885	912	916	888
130	Udaipur	947	957	879	924	933	865
131	Pratapgarh	953	959	876	933	936	898

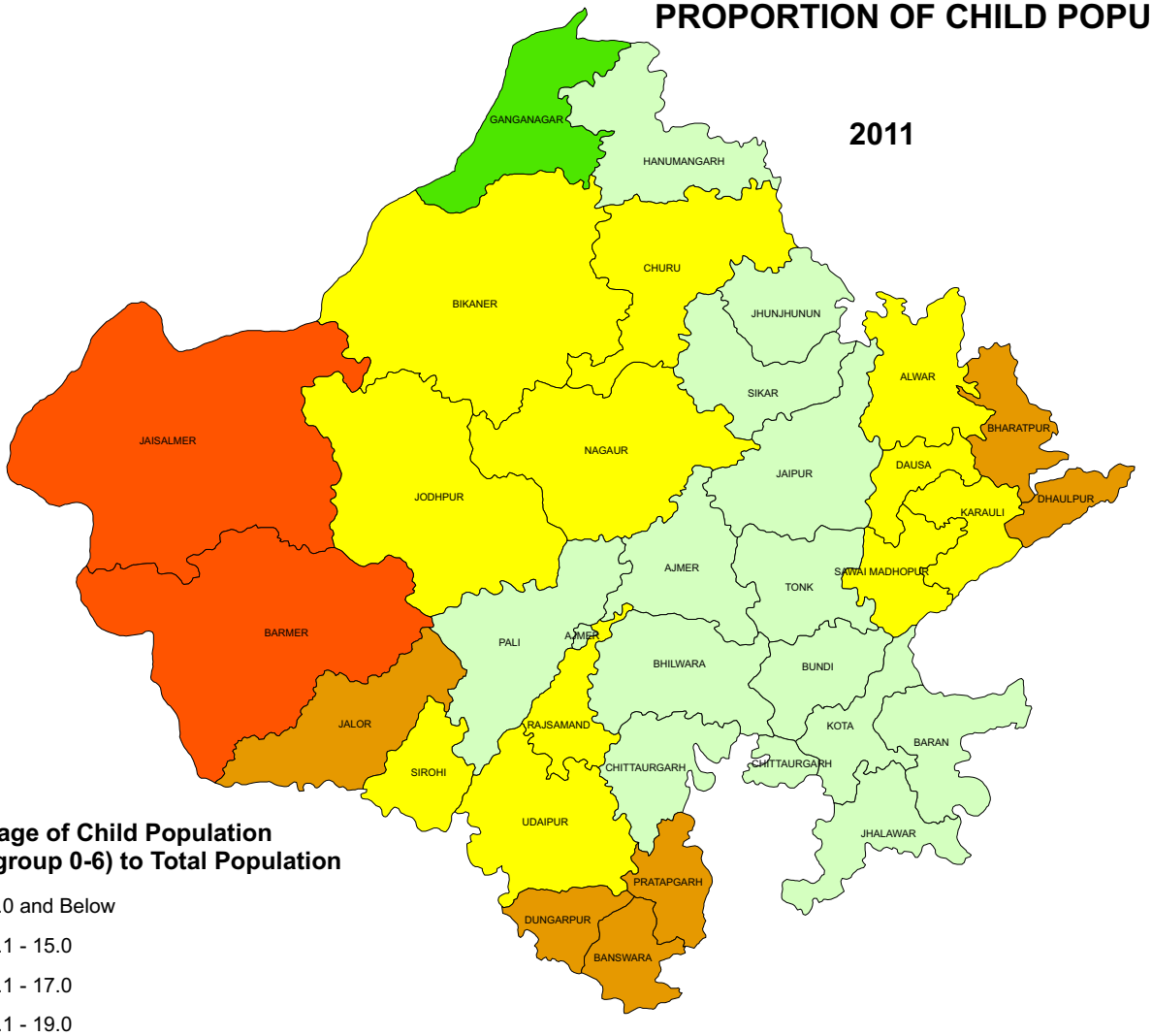
Graph – 9
Child Sex Ratio (0-6 years) by residence





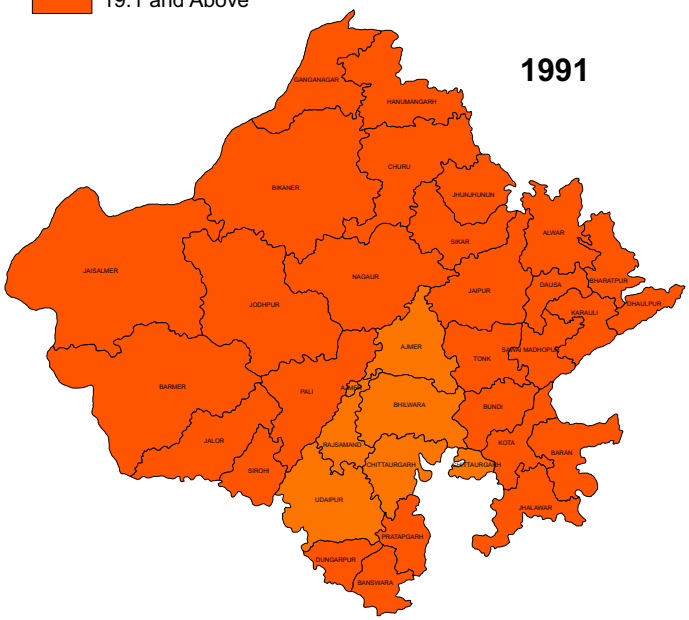


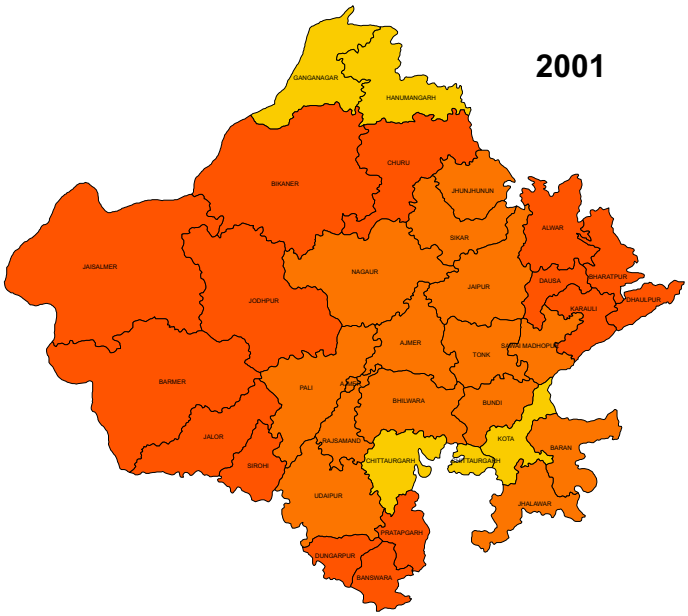
CENSUS OF INDIA 2011
PROPORTION OF CHILD POPULATION



Percentage of Child Population (in age group 0-6) to Total Population

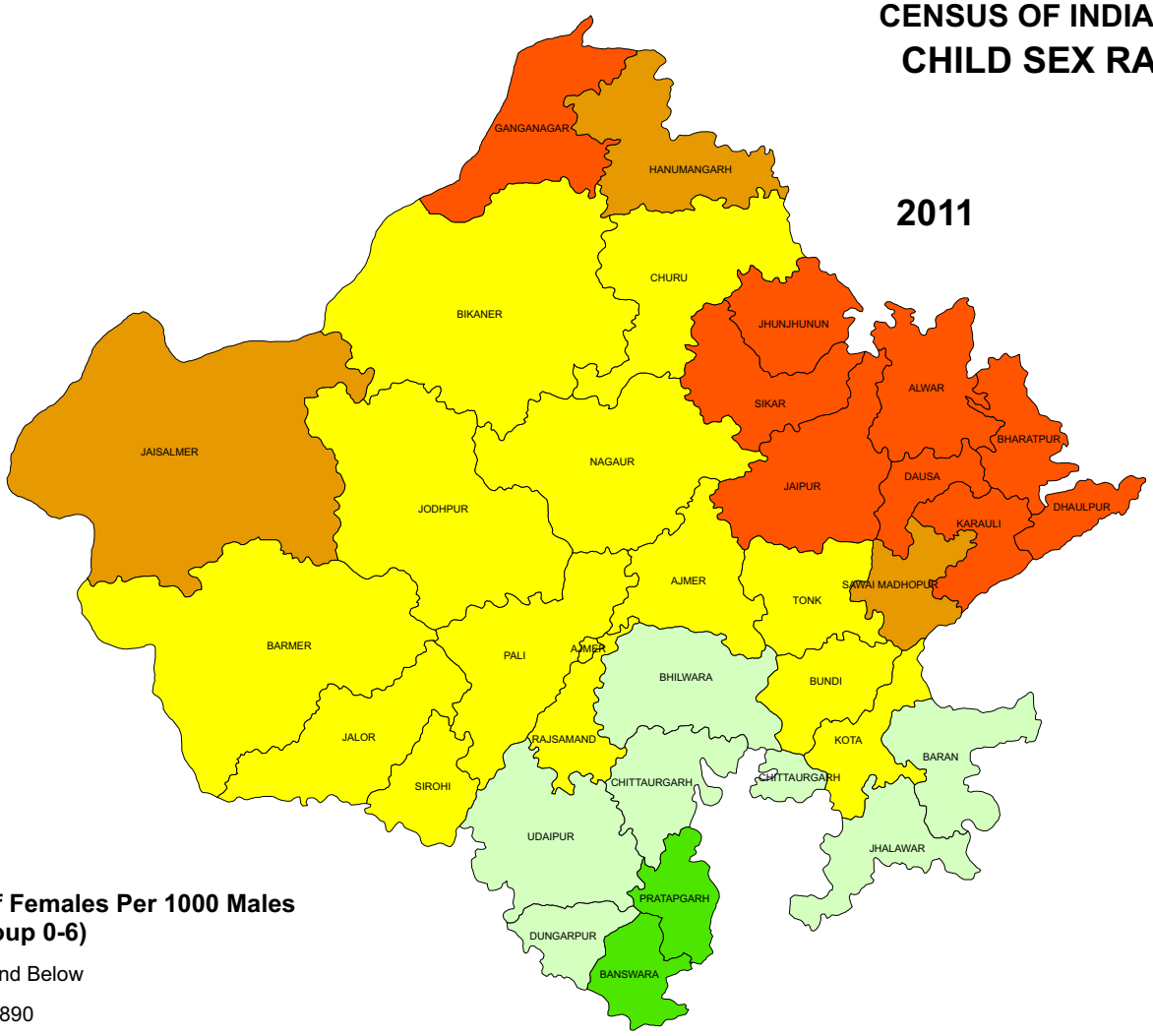
- 13.0 and Below
- 13.1 - 15.0
- 15.1 - 17.0
- 17.1 - 19.0
- 19.1 and Above





CENSUS OF INDIA 2011
CHILD SEX RATIO

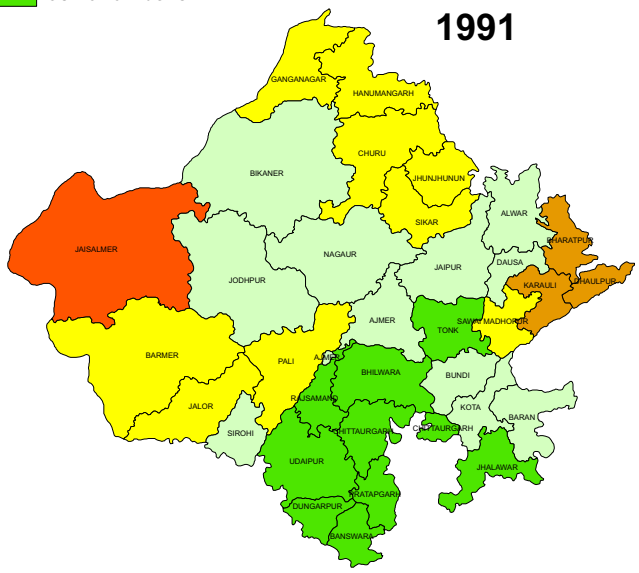
2011



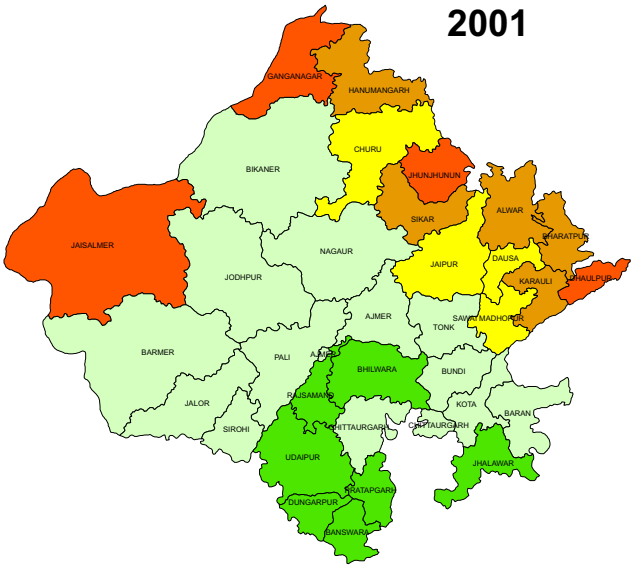
Number of Females Per 1000 Males (in age group 0-6)

- 870 and Below
- 871 - 890
- 891 - 910
- 911 - 930
- 931 and Above

1991



2001



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सत्यमेव जयते

GOVERNMENT OF RAJASTHAN

TRANSPORT DEPARTMENT

STATISTICAL YEAR BOOK

2019-20

GOALS AND OBJECTIVE OF TRANSPORT DEPARTMENT

- To ensure compliance of Motor Vehicles Act & Rules
  - The Motor Vehicles Act, 1988
  - The Central Motor Vehicles Rules, 1989
  - The Rajasthan Motor Vehicles Rules, 1990
  - The Rajasthan Motor Vehicles Taxation Act & Rules, 1951
  - The Rajasthan Regulation of Boating Act, 1956
  - The Rajasthan Regulation of Boating Rules, 1957
- Ensure road safety & inculcate culture of safe driving
- Provide transport facilities in rural & urban areas
- Ensure eco-friendly environment by checking vehicular pollution
- Collection of revenue by way of Taxes, Penalty, Compounding Money, Green Tax and Fees.
- Introduce e-governance to bring about citizen friendly and SMART (Simple, Moral, Accountable, Responsive, Transparent) Governance.

सत्यमेव जयते

GOVERNMENT OF RAJASTHAN

TRANSPORT DEPARTMENT

परिवहन विभाग

चरैवेति चरैवेति

MOVE ON

STATISTICAL YEAR BOOK 2019-20

Government of Rajasthan
Transport Department

STATISTICAL YEAR BOOK 2019-20

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INTRODUCTION
THE STATE

Rajasthan State, in its present form, was conglomeration of 19 princely States and 3 Chief ships which varied in size, population, administrative efficiency and socio-economic development. Administratively Rajasthan is divided into 33 districts, which are further sub-divided into 331 tehsils and 352 panchayat samities.

The area of 3.422 lac sq. kms. of Rajasthan makes it the largest state in the country. The population of the state, according to 2011 census,is 6.854 crores. It has a long international frontier with Pakistan and its adjacent to the state of Punjab, Haryana, Uttar Pradesh, Madhya Pradesh and Gujarat.

The topography of the state is dominated by the Aravali range of hills, one of the oldest mountain systems in the world. The Aravali hills range runs from south-west to north-east through the heart of the state.The region of the west and north-west of these hills comprising 12 districts and spreading in 61.11 percent of the total area of the state is known as Great India Desert, the "Thar"

The tribal area in the state constitutes 5.85% of the state's land mass. With a population of 5.67 % of the total population of the state.

The salient features of Rajasthan are shown as.

Items	As on	Particulars
Area (Lacs Sq.Kms)	2020	3.422
Population (Crores)	2011	6.854
Divisions	2020	7
Districts	2020	33
Sub-Divisions	2020	289
Municipalities	2020	193
Tehsils	2020	331
Sub-Tehsils	2020	194
Panchayat Samities	2020	352
Village panchayats	2020	11341
Revenue Villages	2020	46106

TRANSPORT SECTOR

Transport System is an indicator of economic health and development of a State. The contribution of Transport Sector to the Gross Domestic Product is 6.4% (2006-07) including road (4.5), railways (1.2) water (0.2) and air (0.2) transport at national level. A good road network helps in the success of all developmental activities being taken in the sphere of agriculture, trade and commerce, education, health and even in maintenance

of law and order situation. The road network is not enough, the growth and diversification of the economy leads to increase in value and volume of traffic for intra and inter-regional movement. The demand for freight and passenger movement has increased. Transport demand for freight and passenger movement is met mainly through the principal transport modes of the country viz. road transport and railways. Road Transport has steadily expended its scope of operations to its inherent suitability for handling freight and passengers also.

There is increasing trend in freight and passenger movement by road as shown in table 9.13

The increasing share of passenger traffic through road underlines the fact that this mode has advantages of easy accessibility and regular availability enabling almost door to door movement.

TRANSPORT DEPARTMENT, RAJASTHAN.

The present status of the Transport Department came into existence in July, 1974. State Government had set up a task force to re-organise the Transport department in December, 1972 According to the recommendations of the task force, the post of Transport Commissioner was created as head of the Department. The work related with the registration of vehicles, issuing of driving licences and permits, fitness of vehicles, deposition and recovery of Motor Vehicle Tax and enforcement of Motor Vehicle Act and Rules is being done by the reorganized Transport Department since July, 1974 .

The Transport Department functions under the provisions of section 213of M.V. Act 1988. It has been primarily established to enforce the provisions of M.V. Act, 1988 Central Motor Vehicle Rules, 1989, Rajasthan Motor Vehicle Rules, 1990 Rajasthan Motor Vehicle Taxation Act, 1951, Rajasthan Boating Act & Rules, 1957 in the State. It performs the duties regarding registration, regularization enforcement of Rules.

Taxation and recovery, opening of routes, issuance of permits and licences, fitness of vehicles, implementation of road safety programme and control of vehicular pollution etc. It also assist other organisations in the development of transport facilities and endeavors to provide an efficient, adequate and economic transport services for the movement of passengers and goods by road.

PRESENT SETUP OF TRANSPORT DEPARTMENT

State Level.- The Transport Department is headed by the Transport Commissioner & Secretary to the Govt. as Head of the deptt., assisted by 6 Additional Transport Commissioners, 5 Joint Transport Commissioners, 4 Deputy Commissioners, 1 Assistant Transport Commissioner, One Financial Advisor, One Deputy Financial Advisor, One Senior Accounts Officer and Four Accounts Officer, One System Analyst, Assistant Director (Stat.), Analyst cum Programmer, ALR and 1 DTO alongwith the supporting Ministerial, Statistical, Accounts, Personal Staff and Class IV Staff.

The total strength of the department is 2352 as shown in the table No. 1.2

Regional and District Level Setup-

The department is divided into 12 regions, 52 Vehicle registration authorities, 36 Tax Collection Centers and 27 Sub-Transport Offices, shown as-

RTO	ARTO	Distt. (DTOs)	TCCs	Sub-Offices
Jaipur	2	Jaipur (8)	-	
		Dudu (1)	-	
		Kotputli (1)	1	
		Chomu (1)	-	
		Shahpura (1)	-	
Dausa	1	Dausa (1)	-	Mahuwa
		Karauli (1)	-	Hindaun
		Sawai Madhopur (1)	-	Gangapur City
Sikar	1	Sikar (1)	-	Reengus
			-	Neem Ka Thana
			-	Fatehpur
		Churu (1)	1	Rajgarh,
		Jhunjhunu (1)	3	
		Khetri (1)	-	
		Sujangarh (1)	-	
Alwar	1	Alwar (2)	4	Behror
		Bhiwadi (1)	2	-
		Shajahanpur (1)-Only TCC	1	-
Bharatpur	1	Bharatpur (2)	4	Deeg
		Dholpur (1)	2	-
Ajmer	1	Ajmer (2)	-	-
		Beawar (1)	-	-
		Nagaur (1)	-	Merta
		Didwana (1)	-	Makarana, Nawa
		Tonk (1)	-	Niwai, Uniyara, Devoli
		Kishangarh (1)		
		Kekri (1)		
Jodhpur	2	Jodhpur (3)	-	Pipad City
		Barmer (1)	-	-
		Jaisalmer (1)	-	Pokaran
		Phalodi (1)		
		Balotara (1)		

Pali	1	Pali (1) Sirohi (1) Jalore (1) Aburoad (1) Bhinmal (1)	- 1 - 2 2	Sumerpur, Sojat - Sanchor - -
Udaipur	1	Udaipur (3) Dungarpur (1) Banswara (1) Rajsamand (1) Ratanpur (1) – Only TCC	- 1 2 1	Salumbar - - Nathdwara, Bhim, Railmagra -
Chittorgarh	1	Chittorgarh (1) Pratapgarh (1) Bhilwara (1) Shahpura (1)	1 1 -	- -
Kota	1	Kota (2) Jhalawar (1) Bundi (1) Baran (1) Ramganj Mandi (1)	- 2 - 1	- Bhawani Mandi - -
Bikaner	1	Bikaner (2) Ganganagar (1) Hanumangarh (1) Nokha (1) Nohar (1)	- 2 1 1	Lunkaransar Suratgarh
Jaipur (HQ)	**1**	Jaipur (HQ) (1)		
		Jaipur (1) (Enf.) Ajmer (1) (Enf.) Udaipur (1) (Enf.) Bharatpur (1) (Enf.) Jodhpur (1) (Enf.) Bikaner (1) (Enf.) Kota (1) (Enf.)		
RTO-12	**ARTO-15**	**DTO-78**	**TCC - 36**	**Sub-Office- 27**

Road Transport Sector in Rajasthan State at a Glance

Transport Sector comprises of different models of transport, including road, railways, airways, inland waterways and shipping, which facilitates easy and efficient transportation of goods and citizens across the country. Economic development mainly depends upon transportation of goods & passengers. Road transport plays a key role, in promoting socio-economic development in terms of social, regional and national integration.

A. Registration of Vehicles

1. **Growth of Vehicles From 2010-11 to 2019-20 :** The total number of registered motor vehicles in Rajasthan State, increase from 7987355 as on 31st march, 2011 to 18710774 as on 31st March, 2020. The growth in vehicle population stood at 134.25% at during 10 years. Two wheelers contributes 75.82% of total vehicles as on 31.03.20 whereas it was 73.36% as on 31.03.2011. The share of cars, jeeps and taxis in the total number of vehicles was at 10.34% as 31st March, 2011 increased to 10.81% as on 31st March, 2020. Percentage of buses decreased from 0.98% as 31st March, 2011 to 0.65% as 31st March, 2020. Share of Goods vehicles, accounted for 4.05% as on 31st March, 2011 decreased to 3.75% in the State as on 31st March, 2020.

2. **Yearly Registration of Vehicles:** Total number of vehicles registered during the year 2019-20 is 1512334 having increased from 1254588 as in the year 2015-16. Thus, percentage increase is 20.54%. Yearwise registration of vehicles during the period 2015-16 to 2019-20 is shown in chart A.2.1.

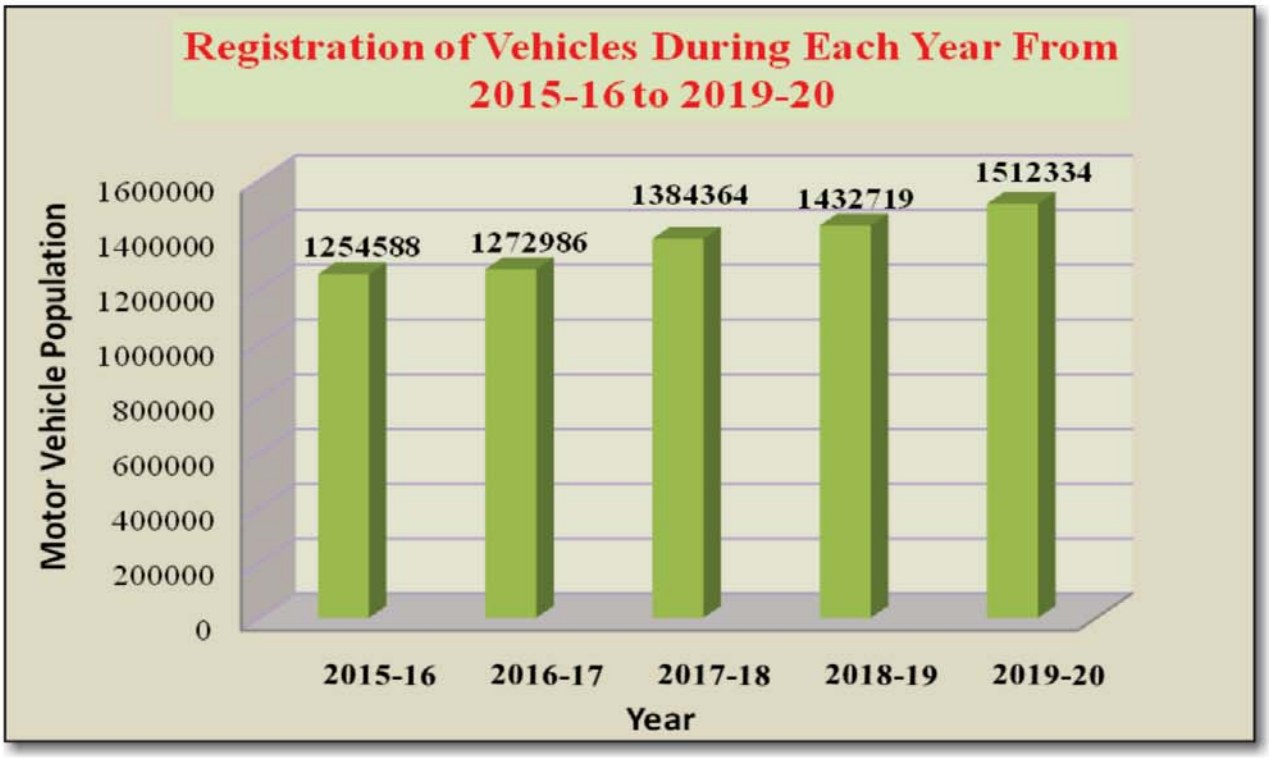

Chart A.2.1

3. **Vehicles On Road As On 31.03.2016 to 31.03.2020:** As on year 2015-16 there were 13633607 vehicles plying in the Rajasthan State, whereas in the year 2019-20 the number grew to 18710774 Yearwise vehicles on roads, during the period 2015-16 to 2019-20 is shown in chart A.3.1.

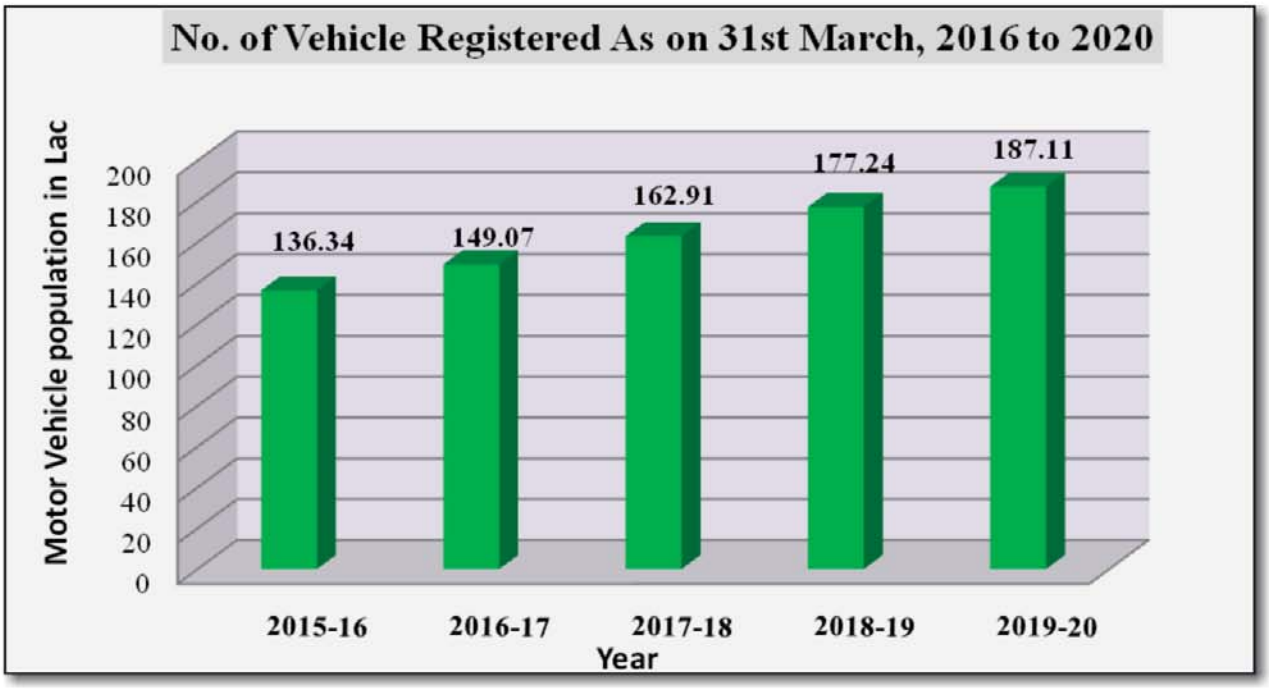

Chart A.3.1

4. **Region wise Growth of Vehicles During The Year 2019-20:** RTO, Jaipur showed maximum growth of registration of vehicles i.e. 15.75% during the year 2019-20 followed by RTO, Udaipur at 11.38%, Ajmer at 10.13%, Kota at 8.97%

5. **Category wise Share of Vehicles:** Category wise share of Motor vehicles 2019-20 is shown in chart A.5.1.

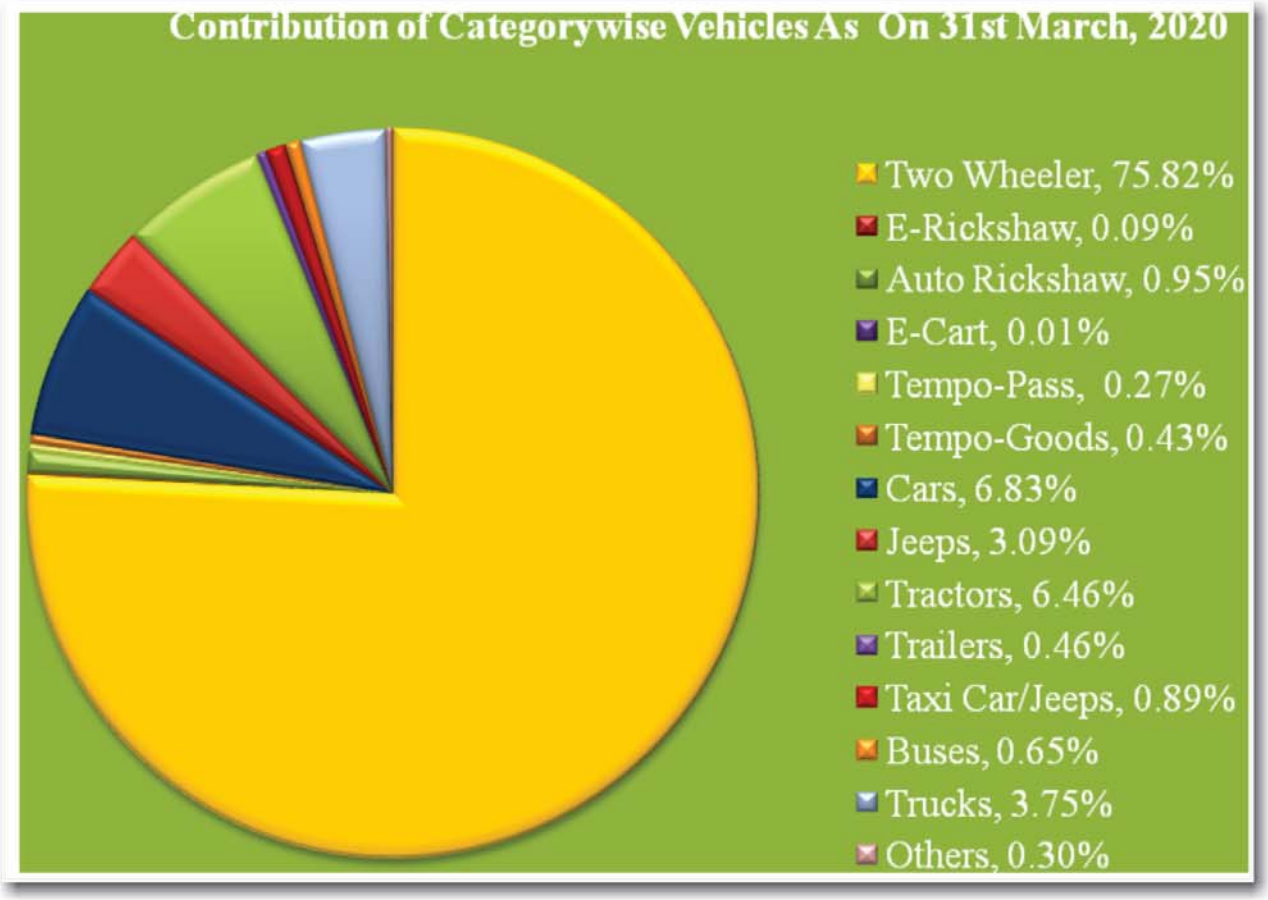

Chart A.5.1

B. Driver's Licences

1. **Growth of Driver's Licences From 2019 to 2020:** The total number of Driver's Licences as record in Rajasthan State increased from 604922 on 31st March, 2019 to 754798 as on 31st March, 2020.

2. **Growth of Driver's Licences Issued During 2018-19 & 2019-20:** Total number of Driver's Licences issued during the year 2019-20 is 754798 indicating increased from 604922 licences issued in the year 2018-19. The number of Driver's Licences issued during the year 2015-16 to 2019-20 is shown in chart B.3.1.

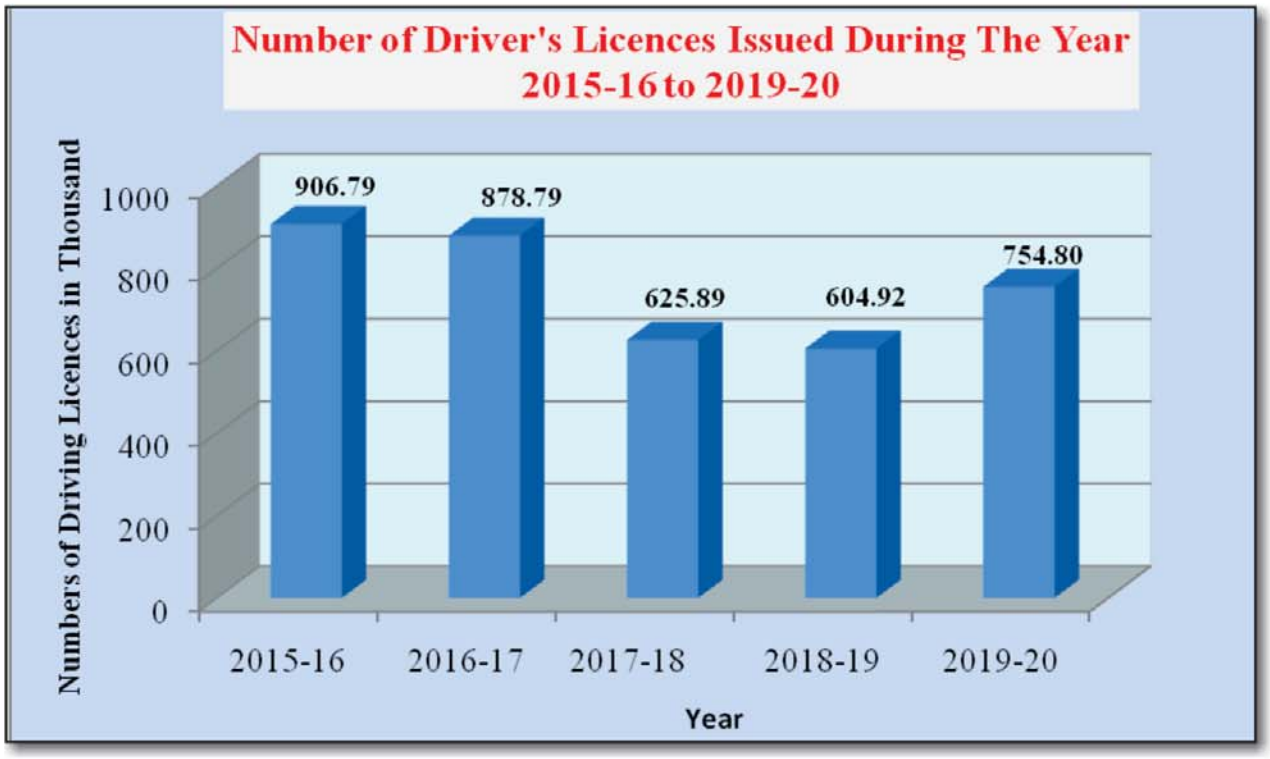

Chart B.3.1

3. **Region wise Share of Driver's Licences Issued During The Year 2019-20:** In year 2019-20 Jodhpur region has maximum percentage of Driver's Licences which amounts to 14.05% followed by Jaipur at 13.25% , Ajmer at 10.70 %, Sikar at 10.61%.

4. Class wise Growth of Driver's Licences on Record From 2018-19 to 2019-20:

In the year 2018-19 total number of Professional Driver's licences on record were 51358 and in 2019-20 the number increased to 68244. In the year 2018-19 total number of Non-Professional Driver's licences on record were 553564 and in 2019-20 the same was increased to 686554.

C. Learner's Licences

1. Growth of Learner's Licences Issued During The Year 2018-19 & 2019-20:

In the year 2018-19 total number of Learner's Licences issued was 702993, whereas in the year 2019-20, total number of Learner's Licences issued was 920859. The number of Learner's Licences issued during the year 2015-16 to 2019-20 is shown in chart C.1.1.

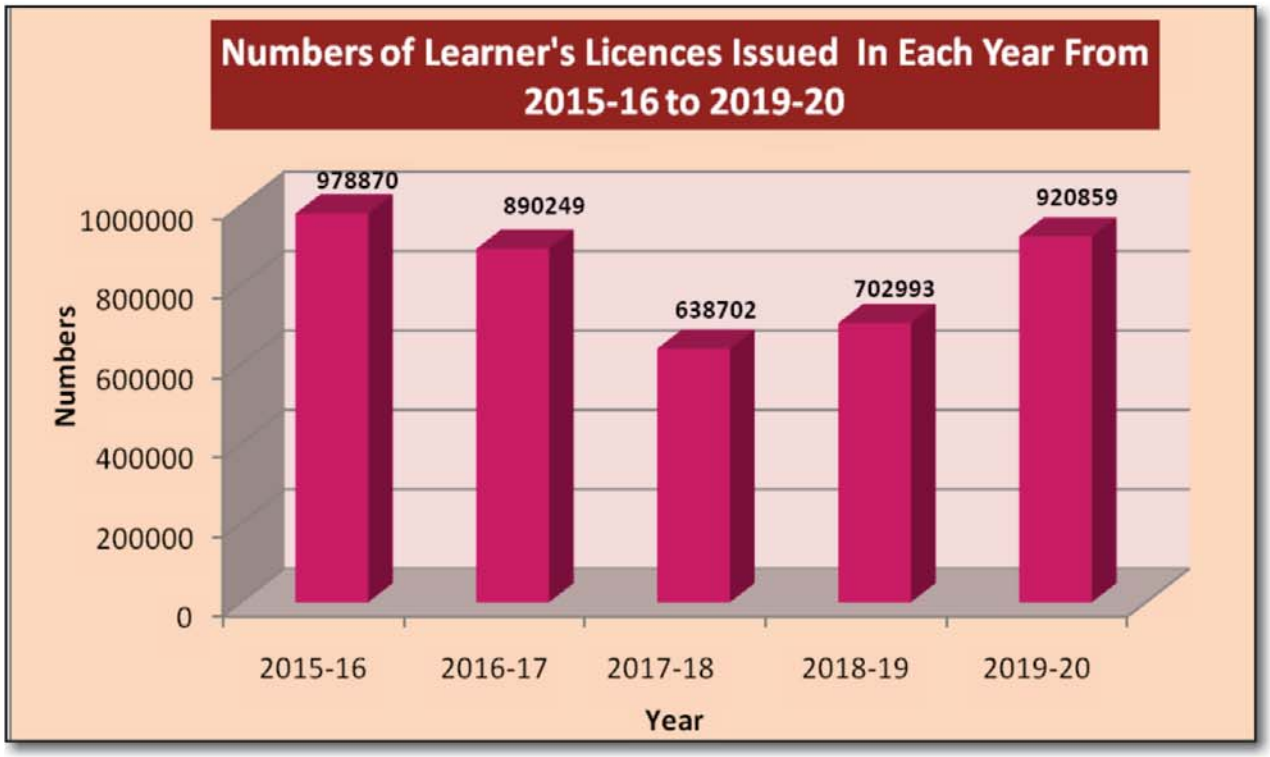

Chart C.1.1

2. Region wise Growth of Issuance of Learner's Licences in the Year 2019-20: Jhodpur region showed maximum growth of issuance of Learner's Licences i.e.12.44% during the year 2019-20 followed by Jaipur at 11.65%, Ajmer 11.33%.

D. Conductor Licences

1. Growth of Conductor Licences/Badges Issued During the Year 2018-19 to 2019-20: In the year 2018-19 total number of Conductor Licences issued was 5052 where as in the year 2019-20 total number decreased to 8851. The number of Conductor Licences issued during year 2015-16 to 2019-20 is shown in chart D.1.1.

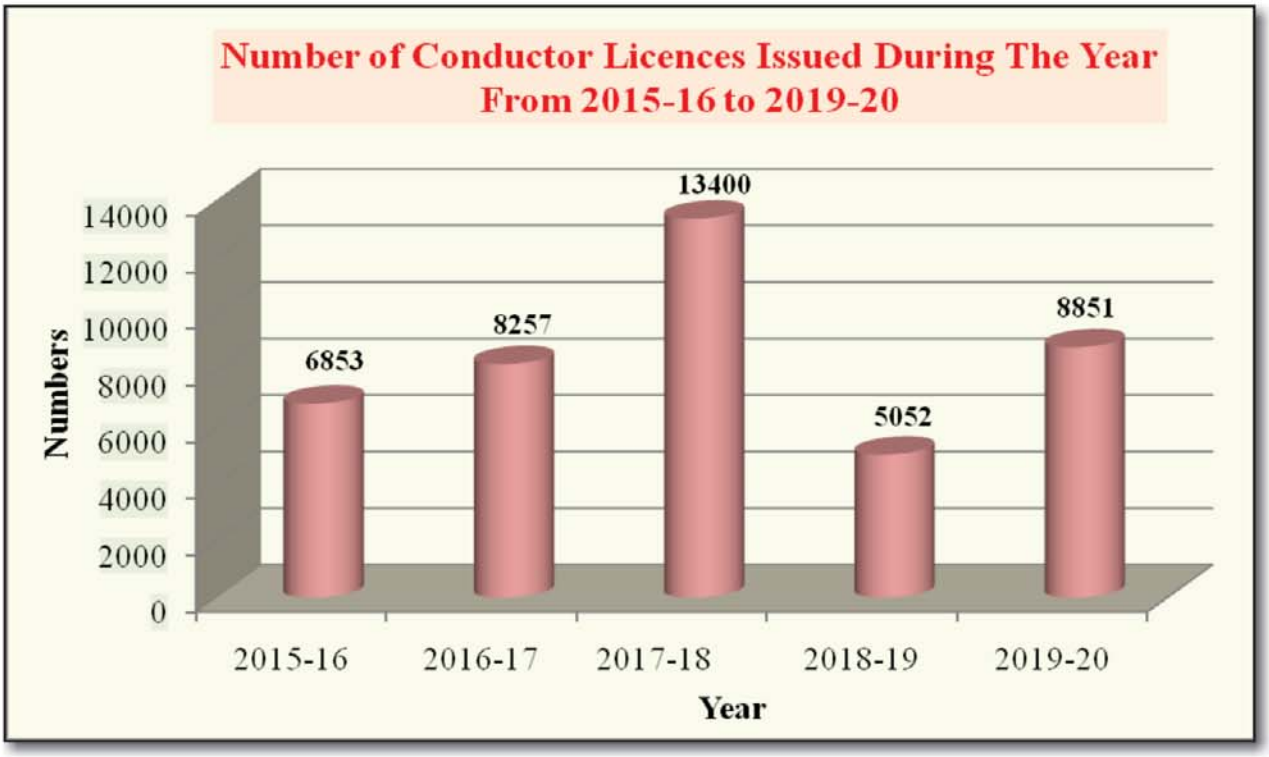

Chart D.1.1

2. Regionwise Growth of Issuance of Conductor Licences/Badges In the Year 2019-20: Sikar region showed maximum growth of issuance of Badges i.e. 20.68% during the year 2019-20 followed by jaipur at 18.98%, Ajmer at 15.07%.

E. Revenue

1. **Growth of Revenue From 2018-19 to 2019-2020:** Total revenue (Motor Vehicle Tax, Passenger Tax, Fees & Fines etc.) collected in year 2018-19 was 4576.32 cr. There has been a steady rise in the total revenue. In the year 2019-20 the total Revenue collected was 4950.85 cr. The growth of revenue from the year 2015-16 to 2019-20 is shown in Chart E.1.1.

Chart E.1.1

2. **Office wise Growth of Total Revenue in the Year 2019-20**: Jaipur office showed maximum % of total Revenue i.e. 19.97% during the year 2019-20 followed by Jodhpur office at 9.93%.

3. **Region wise Contribution of Revenue in the Year 2019-20:** Sikar region collected Rs. 394.22 cr. against the target 425.44 cr. Contributing 92.66% of target, followed by Bharatpur region Rs. 201.48 cr. against the target 218.96 cr. Contributing 92.02% of Target.

F. Performance of Border Tax Collection Centre

1. **Performance of Border T.C.C. From the Year 2018-19 & 2019-20:** Total Revenue recovered at the Border TCC during the year 2018-19 was 170.42 cr. whereas in the year 2019-20 the Border T.C.C.'s have been able to recover total revenue of Rs. 113.79 cr.

2. **Contribution of Border T.C.C. in Recovery During the Year 2019-20:** Ratanpur T.C.C. alone collected Rs. 51.79 cr., which contributes 45.51% of the total revenue recovered from Border T.C.C followed by Shahjhanpur Rs. 10.88 cr. which contributes 9.57%.

3. **Performance of Border T.C.C. During the Year 2015-16 to 2019-20:** Performance of Border T.C.C. in respect of revenue recovered in last 5 years is shown in Chart F.3.1.

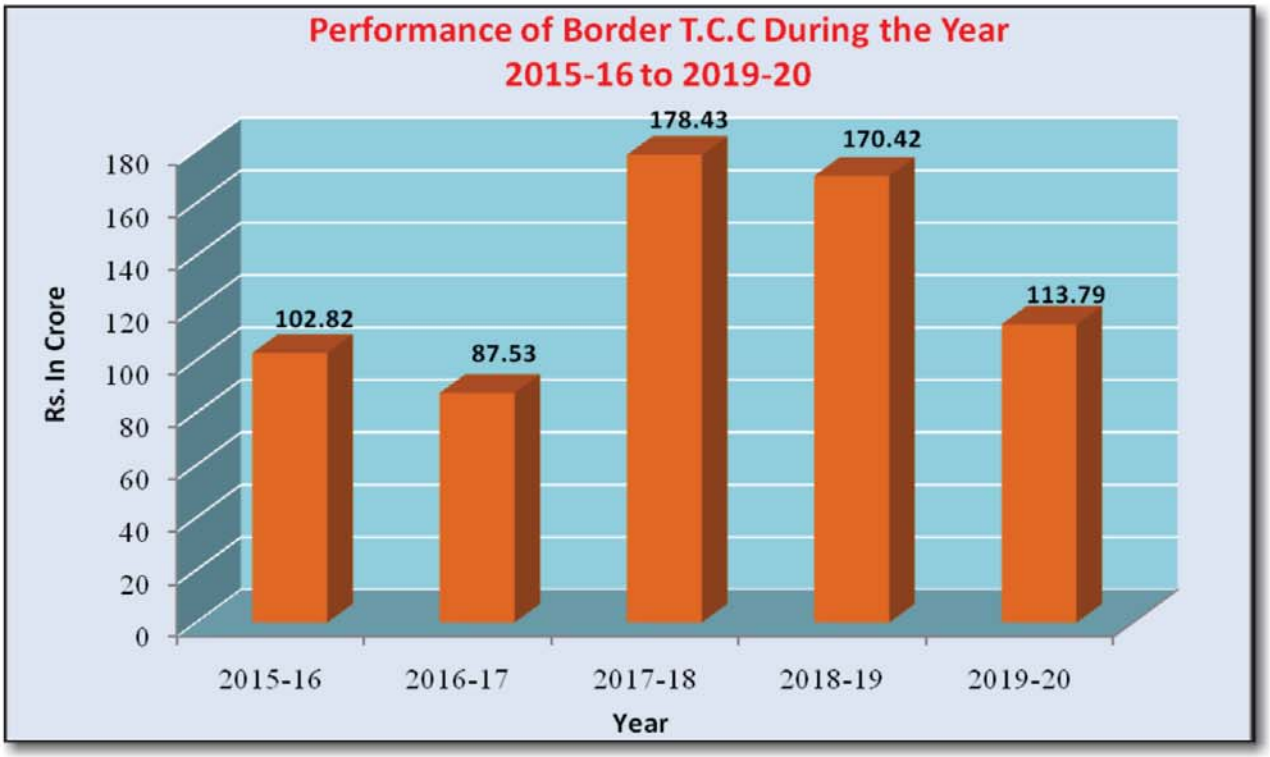

Chart F.3.1

G. Performance of Flying Squads

1. **Region wise Growth of Revenue Recovery by Flying Squads In The Year 2019-20:** Alwar region showed maximum growth of Revenue recovery by flying Squads i.e. 13.29% during the year 2019-20 followed by Udaipur at 13.06%, Jaipur at 13.02% & Pali at 11.25%.

2. **Performance of Flying Squads During The Year 2015-16 to 2019-20:** Performance of Flying Squads in respect of Revenue recovery in last 5 years is shown in chart G.2.1.

Chart G.2.1

H. Performance of Checking of Overloading of Goods Vehicles

1. **Region wise Growth of Compounding fees of Overloading Goods Vehicles in the Year 2019-20:** Jaipur region showed maximum growth of Compounding fees of Goods Vehicles i.e. 24.73% during the year 2019-20, followed by Bikaner at 15.31, Ajmer 12.33%.

2. **Performance of Overload Checking of Goods Vehicles During the Year 2015-16 to 2019-20:** Performance of Overload checking of Goods Vehicles during last 5 years is shown in chart H.2.1.

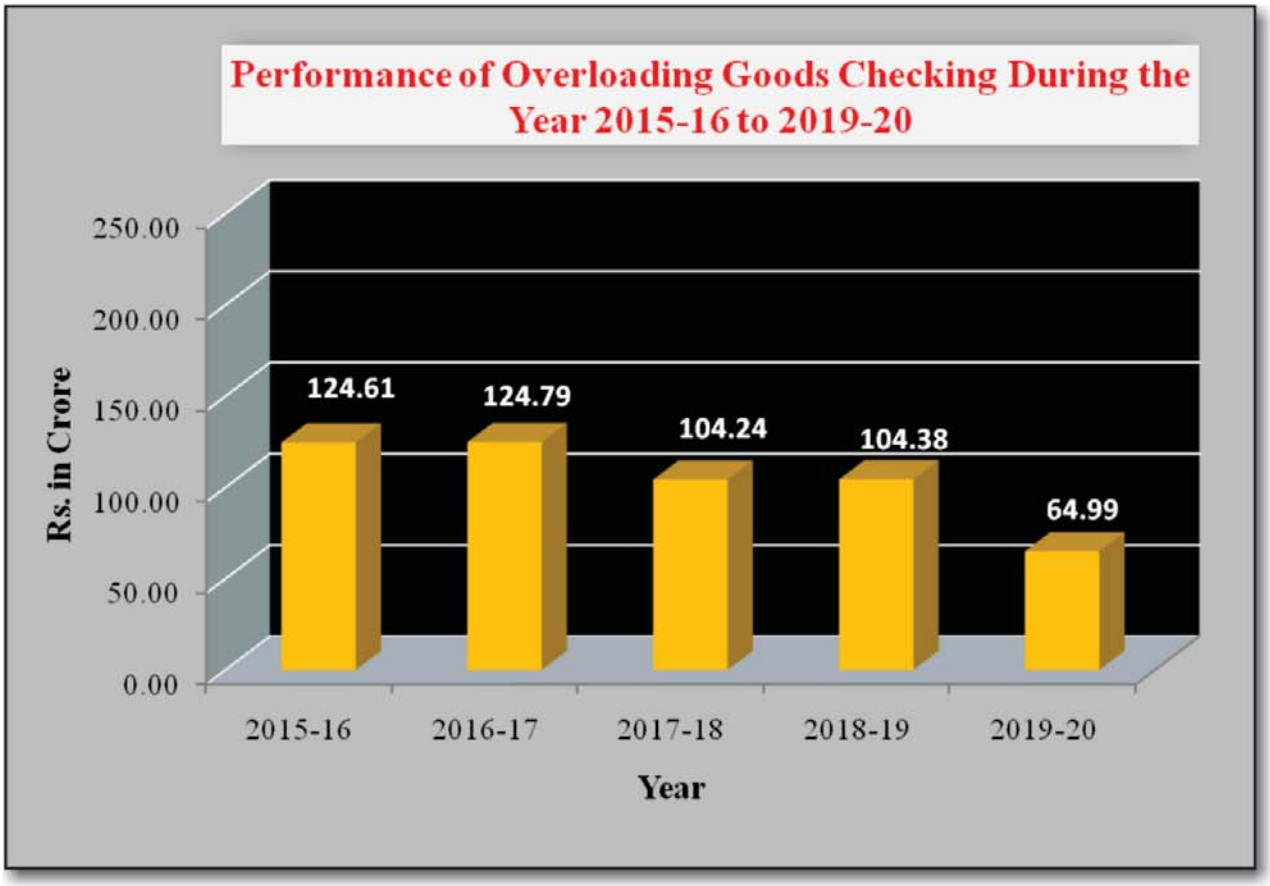

Chart H.2.1

I. Road Accidents

1. **Number of Road Accidents:** The number of road accidents is decreasing. In the year 2018, total number of road accidents occured in State were 21741 whereas the number increased to 23479 in the year 2019 (see table No.6.1).

2. **Number of Persons Killed:** In the year 2018, total number of persons killed in road accidents in State were 10320 whereas the number incresed to 10563 in the year 2019 (see table No.6.1).

3. **Number of Persons Injured :** In the year 2018, total number of persons injured in road accidents in State of Rajasthan were 21545 where as the number increased to 22978, in the year 2019 (see table No.6.1).

4. **Comparison of Number of Accidents, Persons Killed & Injured During The Period 2015 to 2019 :** Comparison of number of Road Accidents, Persons killed & Injured during the period 2015 to 2019 is shown in Chart I.4.1.

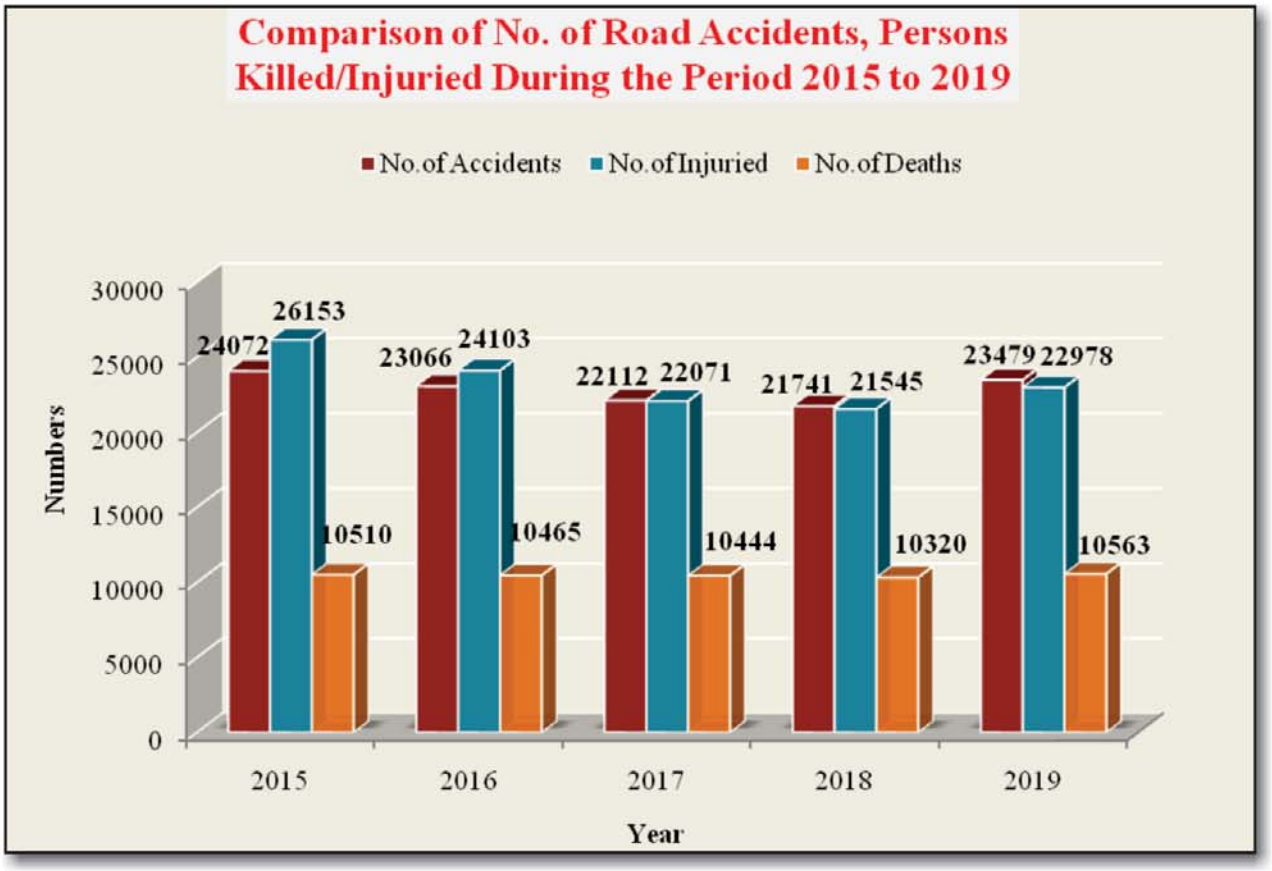

Chart I.4.1

of law and order situation. The road network is not enough, the growth and diversification of the economy leads to increase in value and volume of traffic for intra and inter-regional movement. The demand for freight and passenger movement has increased. Transport demand for freight and passenger movement is met mainly through the principal transport modes of the country viz. road transport and railways. Road Transport has steadily expended its scope of operations to its inherent suitability for handling freight and passengers also.

There is increasing trend in freight and passenger movement by road as shown in table 9.13

The increasing share of passenger traffic through road underlines the fact that this mode has advantages of easy accessibility and regular availability enabling almost door to door movement.

TRANSPORT DEPARTMENT, RAJASTHAN.

The present status of the Transport Department came into existence in July, 1974. State Government had set up a task force to re-organise the Transport department in December, 1972 According to the recommendations of the task force, the post of Transport Commissioner was created as head of the Department. The work related with the registration of vehicles, issuing of driving licences and permits, fitness of vehicles, deposition and recovery of Motor Vehicle Tax and enforcement of Motor Vehicle Act and Rules is being done by the reorganized Transport Department since July, 1974 .

The Transport Department functions under the provisions of section 213of M.V. Act 1988. It has been primarily established to enforce the provisions of M.V. Act, 1988 Central Motor Vehicle Rules, 1989, Rajasthan Motor Vehicle Rules, 1990 Rajasthan Motor Vehicle Taxation Act, 1951, Rajasthan Boating Act & Rules, 1957 in the State. It performs the duties regarding registration, regularization enforcement of Rules.

Taxation and recovery, opening of routes, issuance of permits and licences, fitness of vehicles, implementation of road safety programme and control of vehicular pollution etc. It also assist other organisations in the development of transport facilities and endeavors to provide an efficient, adequate and economic transport services for the movement of passengers and goods by road.

PRESENT SETUP OF TRANSPORT DEPARTMENT

State Level.- The Transport Department is headed by the Transport Commissioner & Secretary to the Govt. as Head of the deptt., assisted by 6 Additional Transport Commissioners, 5 Joint Transport Commissioners, 4 Deputy Commissioners, 1 Assistant Transport Commissioner, One Financial Advisor, One Deputy Financial Advisor, One Senior Accounts Officer and Four Accounts Officer, One System Analyst, Assistant Director (Stat.), Analyst cum Programmer, ALR and 1 DTO alongwith the supporting Ministerial, Statistical, Accounts, Personal Staff and Class IV Staff.

The total strength of the department is 2352 as shown in the table No. 1.2

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Table 5.3

REGISTRATION OF VEHICLES IN RAJASTHAN

Upto March, 2020

S. No.	District	M. Ricks.	Two Wheeler	E-Rickshaw	Auto Ricksha	E-Cart	Tempo		Car	Jeeps	Tractors	Trailers	Taxi/ Maxi Cabs	Buses	Trucks	Others	Total
							Pass.	Goods									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Jaipur	55	2244733	13614	34735	604	8962	15771	444921	103108	55399	3365	45778	26680	107477	7705	3112907
2	Dudu	0	44405	4	28	1	13	3	3098	1675	2165	13	428	139	3048	189	55209
3	Kotputli	0	100520	91	210	33	96	1287	6829	5973	9012	215	2228	2440	21576	855	151365
4	Chomu	0	50976	10	38	0	9	2	4657	3200	2619	34	439	323	2925	295	65527
5	Shahpura	0	37692	18	13	8	4	16	2743	1285	2371	67	234	142	6673	174	51440
	Total	**55**	**2478326**	**13737**	**35024**	**646**	**9083**	**17079**	**462248**	**115241**	**71566**	**3694**	**49107**	**29724**	**141699**	**9218**	**3436447**
6	Dausa	0	247673	428	1802	84	607	310	11104	7828	19931	980	2930	1689	7773	830	303969
7	S.Madhopur	0	212055	4	1034	3	480	255	8767	5693	30093	2383	2961	2774	7674	716	274892
8	Karouli	0	156370	8	2228	0	917	31	4379	4559	15798	939	1654	1004	2591	210	190688
	Total	**0**	**616098**	**440**	**5064**	**87**	**2003**	**596**	**24250**	**18080**	**65822**	**4302**	**7545**	**5467**	**18038**	**1756**	**769548**
9	Sikar	0	378517	162	7116	17	1711	567	31795	21598	33027	464	3917	4917	21167	1454	506429
10	Jhunjhunu	0	307458	34	4077	3	1296	749	28379	19651	25225	886	4359	7037	18962	1669	419785
11	Churu	15	136378	12	7899	10	1305	268	11375	8966	24582	85	1904	2809	12888	388	208884
12	Sujangarh	0	41716	15	201	5	79	14	3133	1499	2820	3	313	203	1947	182	52130
13	Khetri	0	764	2	10	0	0	0	101	178	82	2	19	21	155	11	1345
	Total	**15**	**864833**	**225**	**19303**	**35**	**4390**	**1598**	**74783**	**51892**	**85736**	**1440**	**10512**	**14987**	**55119**	**3704**	**1188573**
14	Alwar	2	714940	1026	3547	62	1371	1634	52601	13693	72405	1717	3335	4242	27187	1814	899576
15	Shanjahapur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Bhiwadi	0	63439	9	761	1	259	228	9295	1993	4905	32	371	724	3269	483	85769
	Total	**2**	**778379**	**1035**	**4308**	**63**	**1630**	**1862**	**61896**	**15686**	**77310**	**1749**	**3706**	**4966**	**30456**	**2297**	**985345**
17	Bharatpur	2	385493	117	2529	3	810	768	18980	14190	55365	1881	1579	2758	20485	1125	506085
18	Dholpur	0	146714	39	1784	3	720	148	5262	4830	19035	89	981	1072	13604	392	194673
	Total	**2**	**532207**	**156**	**4313**	**6**	**1531**	**916**	**24242**	**19020**	**74400**	**1970**	**2560**	**3830**	**34089**	**1517**	**700759**
19	Ajmer	0	633429	668	6100	25	1894	6849	48991	25843	23173	1601	5702	4039	24797	1679	784790
20	Beawar	0	155053	44	2141	9	633	1855	7168	4971	3847	54	1432	873	4781	947	183808
21	Nagour	0	309775	7	1918	0	378	1350	19376	17914	110945	1061	3356	2427	19709	2091	490307
22	Didwana	0	195341	20	1051	0	329	465	10729	6084	9466	15	907	768	6911	932	233018
23	Tonk	0	258593	141	552	0	181	303	7538	6254	26839	1567	1459	1521	5949	603	311500
24	Kishangrah	0	50351	14	296	0	115	312	3066	2813	2596	48	122	97	2158	252	62240
25	Kekri	0	34500	7	33	2	14	223	631	1915	3913	37	71	41	1105	186	42678
	Total	**0**	**1637042**	**901**	**12091**	**36**	**3545**	**11357**	**97499**	**65794**	**180779**	**4383**	**13049**	**9766**	**65410**	**6690**	**2108342**
26	Jodhpur	0	891932	116	15644	34	3245	12127	92693	42363	74906	8730	13341	9111	69551	4923	1238716
27	Barmer	0	180351	12	4039	1	1437	1207	8885	7795	25435	2092	6366	1635	19673	1093	260021
28	Jaisalmer	0	72072	0	2460	0	698	446	4162	3287	13650	460	2726	600	7570	858	108989
29	Balotra	0	58367	0	1007	1	382	288	3491	1813	3679	245	443	146	3060	277	73199
30	Phalodi	0	33077	1	161	0	49	226	1737	1004	8533	0	241	152	3430	264	48875
	Total	**0**	**1235799**	**129**	**23311**	**36**	**5812**	**14294**	**110968**	**56262**	**126203**	**11527**	**23117**	**11644**	**103284**	**7415**	**1729801**

Table 5.3 (Contd.)

REGISTRATION OF VEHICLES IN RAJASTHAN

Upto March, 2020

S. No.	District	M. Ricks.	Two Wheeler	E-Rickshaw	Auto Ricksha	E-Cart	Tempo		Car	Jeeps	Tractors	Trailers	Taxi/ Maxi Cabs	Buses	Trucks	Others	Total
							Pass.	Goods									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
31	Pali	0	472355	5	3346	5	1229	3472	18419	9482	23719	2647	4916	1928	10261	1479	553263
32	Sirohi	0	146127	3	4276	0	1048	1243	7163	5755	12228	1401	3678	1144	4215	593	188874
33	Jalore	0	147451	5	3283	1	884	1323	8089	8957	26021	1714	3279	1054	5640	456	208157
34	Abu Road	0	37010	4	973	0	369	184	3295	702	1291	95	649	119	1628	395	46714
35	Bhinmal	0	66247	5	838	0	314	177	2265	2289	9307	15	197	216	2922	298	85090
	Total	**0**	**869190**	**22**	**12716**	**6**	**3844**	**6399**	**39231**	**27185**	**72566**	**5872**	**12719**	**4461**	**24666**	**3221**	**1082098**
36	Udaipur	1	782712	85	9246	30	3722	3708	92134	27310	22256	5225	10841	7075	39152	3022	1006519
37	Dungarpur	0	255690	5	4411	0	1126	1034	10778	6561	10575	3642	2607	1918	5306	757	304410
38	Ratanpur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Banswara	2	307521	0	4731	0	1317	1208	14322	8839	12540	4245	2417	2175	6223	480	366020
40	Rajsamand	0	202598	5	2118	2	827	1612	11441	6216	10549	2323	2095	1251	7340	414	248791
	Total	**3**	**1548521**	**95**	**20505**	**32**	**6993**	**7562**	**128675**	**48926**	**55920**	**15435**	**17960**	**12419**	**58021**	**4673**	**1925740**
41	Chittorgarh	1	395554	12	4273	13	1594	6002	23822	17371	40658	8267	2846	3058	22796	1302	527569
42	Pratapgarh	0	104793	1	308	0	114	175	1427	4074	9434	757	596	497	1745	310	124231
43	Bhilwara	0	567437	27	4463	25	1368	4151	44075	21977	40893	4933	2874	3118	23704	3592	722637
44	Shahpura	0	68300	0	75	1	28	116	990	5087	6576	44	152	162	1627	286	83444
	Total	**1**	**1136084**	**40**	**9120**	**39**	**3103**	**10444**	**70314**	**48509**	**97561**	**14001**	**6468**	**6835**	**49872**	**5490**	**1457881**
45	Kota	4	692604	68	10720	36	3766	2760	61941	40482	29631	8691	4805	4118	24057	2054	885737
46	Bundi	0	250704	2	1493	3	585	871	12433	6438	26494	2635	1652	717	5704	1131	310862
47	Jhalawar	0	242725	9	1255	12	445	953	8235	14087	27495	3787	1411	1548	7901	1034	310897
48	Baran	0	244622	3	1040	14	383	575	10080	7218	31444	1670	1736	890	3378	496	303549
49	R.Mandi	0	79736	0	145	0	66	129	4250	2297	4554	281	181	234	2818	258	94949
	Total	**4**	**1510391**	**82**	**14653**	**65**	**5245**	**5288**	**96939**	**70522**	**119618**	**17064**	**9785**	**7507**	**43858**	**4973**	**1905994**
50	Bikaner	0	368835	56	11263	9	2253	2717	30120	14345	49850	973	5754	3561	36854	1606	528196
51	Ganganagar	8	376668	81	5075	3	1133	407	33753	18723	85896	3512	2368	4474	23785	1002	556888
52	H.Garh	0	176088	193	1473	26	489	471	17660	6331	32025	301	970	1878	11031	723	249659
53	Nohar	0	41302	2	169	0	66	30	3897	1194	9077	4	140	428	2748	117	59174
54	Nokha	0	17063	0	211	0	68	29	1358	833	3541	7	155	179	2765	121	26330
	Total	**8**	**979956**	**332**	**18192**	**38**	**4008**	**3654**	**86788**	**41426**	**180389**	**4797**	**9387**	**10520**	**77183**	**3569**	**1420247**
	G. Total	**90**	**14186826**	**17194**	**178601**	**1089**	**51186**	**81049**	**1277833**	**578543**	**1207870**	**86234**	**165915**	**122126**	**701695**	**54523**	**18710774**

Table 2.1

COMPARATIVE CHART OF ROAD, VEHICLE & POPULATION

S. No.	District	Population 2011 (IN '000)	Area (in Sq. Km)	Vehicle Registered Upto Mar. 2020	Vehicle per 1000 Person
1	2	3	4	5	6
1	Ajmer	2585	8481	1073516	415
2	Alwar	3672	8380	985345	268
3	Banswara	1798	5037	366020	204
4	Barmer	2604	28387	333220	128
5	Bharatpur	2549	5066	506085	199
6	Bhilwara	2411	10455	806081	334
7	Bikaner	2368	27244	554526	234
8	Bundi	1114	5550	310862	279
9	Chittorgarh	1544	10856	527569	342
10	Churu	2041	16830	261014	128
11	Dholpur	1207	3034	194673	161
12	Dungarpur	1389	3770	304410	219
13	Ganganagar	1970	7984	556888	283
14	Hanumangarh	1780	12650	308833	174
15	Jaipur	6664	11143	3436447	516
16	Dausa	1637	3432	303969	186
17	Jaisalmer	672	38401	108989	162
18	Jalore	1830	10640	293247	160
19	Jhalawar	1411	6219	310897	220
20	Jhunjhunu	2140	5928	421131	197
21	Jodhpur	3686	22850	1287591	349
22	Kota	1950	5443	980686	503
23	Baran	1224	6992	303549	248
24	Nagaur	3309	17718	723325	219
25	Pali	2039	12387	553263	271
26	S. Madhopur	1338	4498	274892	205
27	Sikar	2678	7732	506429	189
28	Sirohi	1037	5136	235588	227
29	Tonk	1422	7194	311500	219
30	Udaipur	3068	13419	1006519	328
31	Rajsamand	1158	3860	248791	215
32	Karauli	1458	5524	190688	131
33	Partapgarh	868	4449	124231	143
	Total	**68621**	**346689**	**18710774**	273

Table 1.1				
TRANSPORT AT A GLANCE				
(Upto March, 2020)				
S.No.	**Item**	**Year**	**Unit**	**Particulars**
1	**2**	**3**	**4**	**5**
1	**Registration of Vehicles**	Upto March 2020	Nos	**18692488**
	1.1 Motorised Rickshaw	"	"	90
	1.2 Two Wheeler	"	"	14186826
	1.3 E-Rickshaw	"	"	17194
	1.4 Auto Rickshaw	"	"	178601
	1.5 E-Cart	"	"	1089
	1.6 Tempo (Passenger)	"	"	51186
	1.7 Tempo (Goods)	"	"	81046
	1.8 Car	"	"	1277833
	1.9 Jeep	"	"	578543
	1.10 Tractor	"	"	1207870
	1.11 Trailler	"	"	86234
	1.12 Taxi	"	"	165915
	1.13 Bus/Mini Bus	"	"	122126
	1.14 Truck	"	"	701695
	1.15 Others	"	"	54523
2	Commercial Vehicles	"	"	1327537
3	Non Commercial Vehicles	"	"	17383237
4	Driving Licence issued (New)	2019-20	"	754798
5	**Permanent Permit (Effective)**	Upto March, 2020	"	**746338**
	5.1 Stage Carriage (Private)	"	"	48941
	5.2 Stage Carriage (Public)	"	"	6696
	5.3 Contract Carriages	"	"	281990
	5.4 Goods Vehicles (Others)	"	"	211927
	5.5 National Permits (Goods)	"	"	196784
6	Temporary Permits	2019-20	"	166465
7	International Driving Permits	2019-20	"	2327
8	National Highways in State	As on March, 2019	Kms.	10599.67
9	State Highways	As on March, 2019	Kms.	15524.81
10	Accidents Occurred	2019	Nos	23479
11	Vehicle Ratio (Per 1000 Persons)	Upto March, 2018	Nos	273
12	Revenue Collected	2019-20	Crores	4950.85

Table 3.2

EFFECTIVE PERMANENT PERMITS

Upto the Year 2019-20 (cumulative)

S. No.	District	Stage Carriage										Contract Carriage							Private Service Veh.	Goods Vehicles				Grand Total (12+19+20+24)
		Priavate Sector								Public Sector	Total (10+11)	Three Wheeler	Motor Cab	Maxi Cab	Passenger Buses		Urban Contract	Total (13 to 18)		Three Wheeler	National Permits	All Raj.	Total (21 to 23)	
		Urban	BRTS	Sub Urban	Rural	Lok Parivahan	Other	Cont. Sign	Total (3to9)						Tourist	All Raj								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Jaipur	2572	0	410	371	50	1451	30	4884	1267	6151	22448	24464	10704	705	168	1299	59788	707	0	46699	26450	73149	139795
2	Dausa	395	4	65	192	71	993	0	1720	219	1939	6059	4597	2754	316	151	0	13877	543	12	5121	5399	10532	26891
3	Sikar	386	0	0	1800	297	4097	112	6692	1026	7718	21313	5362	4268	298	181	2	31424	833	282	8289	19800	28371	68346
4	Alwar	801	0	312	435	54	619	0	2221	380	2601	5009	1695	1027	101	54	59	7945	597	9	23649	9609	33267	44410
5	Bharatpur	12	0	0	92	32	96	181	413	63	476	4385	302	993	31	284	0	5995	374	6	7605	1214	8825	15670
6	Ajmer	1112	1	192	834	174	3369	7	5689	196	5885	10375	4526	3647	111	152	12	18823	595	288	21903	23020	45211	70514
7	Jodhpur	3247	4	497	644	105	1471	0	5968	724	6692	14594	9633	3202	1239	506	22	29196	718	26	30691	20705	51422	88028
8	Pali	2345	0	0	612	27	2237	10	5231	270	5501	13483	9304	2407	80	274	5	25553	663	11	4332	7340	11683	43400
9	Udaipur	2964	83	377	261	29	2255	32	6001	1303	7304	16763	6893	7049	1157	103	51	32016	360	110	10487	18155	28752	68432
10	Chittorgarh	621	0	1002	176	31	2066	0	3896	160	4056	9350	1802	3077	1425	236	14	15904	289	173	9952	19158	29283	49532
11	Kota	1230	0	232	166	55	819	35	2537	541	3078	7252	2612	4249	254	208	12	14587	110	88	7751	20209	28048	45823
12	Bikaner	632	3	231	1309	12	1381	121	3689	547	4236	17276	3860	5141	373	226	6	26882	529	16	20305	39847	60168	91815
	G. Total	**16317**	**95**	**3318**	**6892**	**937**	**20854**	**528**	**48941**	**6696**	**55637**	**148307**	**75050**	**48518**	**6090**	**2543**	**1482**	**281990**	**6318**	**1021**	**196784**	**210906**	**408711**	**752656**

Table 5.1

REGISTRATION OF VEHICLES IN RAJASTHAN

VEHICLES REGISTERED AT THE END OF FINANCIAL YEAR

S. No.	Year	M. Rickshaw	Two Wheeler	E-Rickshaw	Auto Rickshaw	E-Cart	Tempo		Cars	Jeeps	Tractors	Trailers	Taxi Car/ Jeeps	Buses	Trucks	Others	Total	% Growth Over Last Year
							Pass	Goods										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	2010-11	90	5859719	–	102967	–	20361	46159	520385	227910	644305	70525	77317	77980	323273	16364	7987355	–
2	2011-12	90	6629743	–	110456	–	23889	49812	591069	254840	699881	71665	89053	83345	362028	19697	8985568	12.50
3	2012-13	90	7465863	–	117990	–	27432	53418	659542	288056	768645	73732	103690	88616	401983	22978	10072035	12.09
4	2013-14	90	8331142	–	125638	–	31031	56668	733916	319490	841290	74568	114615	93892	434379	27711	11184430	11.04
5	2014-15	90	9272233	–	133006	–	34498	60736	814079	357188	907139	75709	123275	97650	472365	31051	12379019	10.68
6	2015-16	90	10258009	1417	141576	14	38531	64959	899307	396572	969287	76707	131912	102818	517604	34804	13633607	10.13
7	2016-17	90	11250427	5848	151425	183	43166	69555	988391	435366	1029721	80042	143075	108681	561158	39465	14906593	9.34
8	2017-18	90	12314229	10351	160015	600	47209	74533	1095526	487366	1092432	84642	152429	113964	613055	44517	16290957	9.29
9	2018-19	90	13431554	12984	167779	743	50862	77911	1204005	543181	1153510	85356	160994	118301	665926	50480	17723676	8.79
10	2019-20	90	14186826	17194	178601	1089	51186	81049	1277833	578543	1207870	86234	165915	122126	701695	54523	18710774	5.57

Table 1.4

COMPARATIVE STUDY OF WORK LOAD

S. NO.	Year	No. of RTOs	No. of ARTOs	No. of DTOs	Total (3 to 5)	No. of MVIs	No. of MVSIs	No of MVI/MVSI (7+8)	Total (6+9)
1	2	3	4	5	6	7	8	9	10
1	2010-11	11	15	54	80	183	264	447	527
2	2011-12	11	15	54	80	183	264	447	527
3	2012-13	13	19	81	113	297	386	683	796
4	2013-14	13	19	81	113	297	386	683	796
5	2014-15	12	15	77	104	290	371	661	765
6	2015-16	12	15	77	104	290	371	661	765
7	2016-17	12	15	77	104	290	371	661	765
8	2017-18	12	15	77	104	290	371	661	765
9	2018-19	12	15	78	105	296	375	671	776
10	2019-20	12	15	78	105	296	375	671	776

Table 1.4 (Contd.)

COMPARATIVE STUDY OF WORK LOAD

S. NO.	Year	No. of Vehicles Registered	REGISTERED VEHICLE		No of Licences	LICENCES		Revenue Achievement	Revenue Realise Per Officer, MVI / MVSI (Rs in Lacs)
			Per Officer	Per MVI / MVSI		Per Officer	Per MVI / MVSI		
1	2	3	4	5	6	7	8	9	10
1	2010-11	7987355	99842	17869	601437	7518	1345	161209.34	305.90
2	2011-12	8985568	112320	20102	784161	9802	1754	192702.47	365.66
3	2012-13	10072035	89133	14747	800384	7083	1172	228300.38	286.81
4	2013-14	11184430	98977	16375	741420	6561	1086	249897.76	313.94
5	2014-15	12379019	119029	18728	752861	7239	1139	282980.58	369.91
6	2015-16	13633607	131092	20626	906791	8719	1372	319909.68	418.18
7	2016-17	14906593	143333	22552	878792	8450	1329	362282.56	473.57
8	2017-18	16290957	156644	24646	625893	6018	947	436305.65	570.33
9	2018-19	17723676	168797	26414	604922	5761	902	457631.84	589.73
10	2019-20	18710774	178198	27885	604922	5761	902	495084.86	638.00

Table 4.2				
BUDGET ESTIMATES AND ACTUAL RECEIPTS				
During The Year				**(Rs in Lacs)**
S.No.	**Year**	**Budget Estimates**	**Actual Receipts**	**% Growth Over last Year**
1	**2**	**3**	**4**	**5**
1	2010-11	145000.00	161224.59	–
2	2011-12	172500.00	192704.97	19.53
3	2012-13	230000.00	228283.46	18.46
4	2013-14	255000.00	249897.76	9.47
5	2014-15	280000.00	282980.58	13.24
6	2015-16	330000.00	319909.68	13.05
7	2016-17	365000.00	362282.56	13.25
8	2017-18	430000.00	436305.65	20.43
9	2018-19	506000.00	457631.84	4.89
10	2019-20	565000.00	495084.86	8.18

Table 4.3			
DISTRICTWISE REVENUE TARGET AND ACHIEVEMENT			
		Year 2019-20	(Rs. In Lacs)
S.No.	District	Target	Achievement
1	2	3	4
1	Jaipur	92083.00	79040.42
2	Dudu	3658.00	3612.86
3	Kotputli	8374.00	7224.80
4	Chomu	4439.00	3692.42
5	Shahpura	6484.00	5319.29
	Total	**115038.00**	**98889.79**
6	Dausa	7452.00	7098.76
7	S.Madhopur	6019.00	4996.59
8	Karouli	4005.00	3642.46
	Total	**17476.00**	**15737.81**
9	Sikar	16652.00	15236.38
10	Jhunjhunu	14225.00	13499.45
11	Churu	7130.00	6447.44
12	Sujangarh	3324.00	2981.68
13	Khetri	1213.00	1256.94
	Total	**42544.00**	**39421.89**
14	Alwar	18341.00	16923.29
15	Shanjahapur	7998.00	5720.05
16	Bhiwadi	6733.00	6362.69
	Total	**33072.00**	**29006.03**
17	Bharatpur	13671.00	12216.06
18	Dholpur	8225.00	7932.05
	Total	**21896.00**	**20148.11**
19	Ajmer	15529.00	11929.79
20	Beawar	5054.00	3870.77
21	Nagour	11606.00	10165.28
22	Didwana	7010.00	6276.33
23	Tonk	6247.00	5095.67
24	Kishangrah	4213.00	3266.53
25	Kekri	2189.00	1781.51
	Total	**51848.00**	**42385.88**
26	Jodhpur	35959.00	31387.73
27	Barmer	9604.00	8354.90
28	Jaisalmer	4072.00	3510.90
29	Balotra	3606.00	3370.54
30	Phalodi	2769.00	2554.02
	Total	**56010.00**	**49178.09**

Table 4.3 (Contd.)			
DISTRICTWISE REVENUE TARGET AND ACHIEVEMENT			
		Year 2019-20	(Rs. In Lacs)
S.No.	District	Target	Achievement
1	2	3	4
31	Pali	11184.00	9012.81
32	Sirohi	4595.00	3981.85
33	Jalore	3918.00	3119.59
34	Abu Road	5836.00	5051.86
35	Bhinmal	4964.00	4251.29
	Total	**30497.00**	**25417.40**
36	Udaipur	25986.00	23770.29
37	Dungarpur	5386.00	5323.91
38	Ratanpur	7744.00	5184.23
39	Banswara	6541.00	5882.39
40	Rajsamand	7203.00	5389.07
	Total	**52860.00**	**45549.89**
41	Chittorgarh	18514.00	16581.33
42	Pratapgarh	2469.00	2411.83
43	Bhilwara	15314.00	13077.95
44	Shahpura	4277.00	3747.97
	Total	**40574.00**	**35819.08**
45	Kota	18101.00	14273.56
46	Bundi	5330.00	4703.96
47	Jhalawar	6085.00	5923.26
48	Baran	4840.00	4531.77
49	R.Mandi	2178.00	1488.52
	Total	**36534.00**	**30921.07**
50	Bikaner	16748.00	14505.09
51	Ganganagar	11975.00	10682.21
52	H.Garh	7693.00	6276.28
53	Nohar	3841.00	3657.72
54	Nokha	2944.00	2616.25
	Total	**43201.00**	**37737.55**
	G. Total	**541550.00**	**470212.59**
	R.S.R.T.C	**9800.00**	**9715.85**
	National Permits	**13650.00**	**15156.42**
	Grand Total	**565000.00**	**495084.86**

Table 4.4

COMPONENTS OF REVENUE

During The Year **(Rs. In Lacs)**

S. No.	Year	OTT (NTV)		LST		ROAD TAX				SRT				SURCHARGE		GREEN TAX		FEES		CF		Other		Total Amount	% Over Last Year
		Amount	%	Amount	%	Total	N. Permit	Other	%	Total	RSRTC	Other	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	2010-11	44020.64	27.31	4985.69	3.09	42751.76	8813.27	33938.49	26.52	36035.41	5932.84	30102.57	22.35	0.00	0.00	836.58	0.52	9935.55	6.16	20769.15	12.88	1874.56	1.16	**161209.34**	
2	2011-12	56635.50	29.39	5071.60	2.63	48191.17	9157.46	39033.71	25.01	38588.73	6759.95	31828.78	20.03	7790.54	4.04	3992.88	2.07	12338.02	6.40	19675.47	10.21	418.56	0.22	**192702.47**	**19.54**
3	2012-13	68934.93	30.19	6606.81	2.89	54052.99	10308.66	43744.33	23.68	49849.81	15460.37	34389.44	21.84	9706.98	4.25	4621.28	2.02	13785.86	6.04	19992.10	8.76	749.62	0.33	**228300.38**	**18.47**
4	2013-14	71421.15	28.58	9291.61	3.72	52192.15	10354.43	41837.72	20.89	64616.81	22410.79	42206.02	25.86	8628.06	3.45	5251.84	2.10	16705.72	6.69	21781.77	8.72	8.65	0.00	**249897.76**	**9.46**
5	2014-15	82211.94	29.05	19586.17	6.92	51153.78	10836.42	40317.36	18.08	54819.86	12287.11	42532.75	19.37	10953.67	3.87	6114.51	2.16	20068.85	7.09	38071.81	13.45	5.85	0.00	**282986.44**	**13.24**
6	2015-16	98676.60	30.84	28697.56	8.97	56911.37	11886.24	45025.13	17.79	57611.78	10030.24	47581.54	18.01	12193.28	3.81	7677.78	2.40	25353.39	7.92	32787.92	10.25	33.94	0.01	**319943.62**	**13.06**
7	2016-17	113358.53	31.29	28402.17	7.84	62916.82	12548.25	50368.57	17.37	61611.83	10502.37	51109.46	17.01	14209.88	3.92	14113.22	3.90	31900.95	8.81	35769.16	9.87	0.00	0.00	**362282.56**	**13.23**
8	2017-18	139560.28	31.99	31891.1	7.31	67869.14	13872.06	53997.08	15.56	64686.31	11768.2	52918.12	14.83	20161.63	4.62	19244.2	4.41	53137.18	12.18	39755.9	9.11	0.00	0.00	**436305.65**	**20.43**
9	2018-19	147368.79	32.20	27981.3	6.11	74296.95	14897.37	59399.58	16.24	63524.74	10996.1	52528.67	13.88	21493.05	4.70	22152.6	4.84	52581.26	11.49	35277.2	7.71	12955.97	2.83	**457631.84**	**4.89**
10	2019-20	219087.10	44.25	22224.90	4.49	96658.65	15156.42	81502.23	19.52	23233.87	9715.85	13518.02	4.69	8249.26	1.67	21847.12	4.41	56935.00	11.50	41862.20	8.46	4986.76	1.01	**495084.86**	**8.18**

Table 4.10			
BUDGET ALLOCATION AND EXPENDITURE			
STATE FUND (SCHEME)			
Year 2019-20		**(Rs In Lacs)**	
S.No.	**Scheme**	**2019-20**	
		R.E.	**Exp.**
1	**2**	**3**	**4**
1	798-Transport Building &Driving track	333.03	319.31
2	1142-Computerization in RTO	2153.35	2012.44
3	2230-IDTR	0.01	0.00
4	2231-I&C	0.01	0.00
5	2232-Transport Hub	0.01	0.00
6	2602-Payment of Consultecy Charges	0.00	0.00
7	2604-Enviorment and Pollution	0.00	0.00
	Total	**2486.41**	**2331.75**
8	2527-Dedicated Road Safty Fund	11343.28	32.10
	Total	**11343.28**	**32.10**
9	1266-Assistance for depot to RSRTC	0.03	0.00
10	1752- Share capital to RSRSTC	0.01	0.00
11	1965 Loan to RSRTC	0.01	0.00
12	1966-grant to RSRTC	20500.01	20500.00
13	2120- Grant for VGF to RSRTC	0.01	0.00
14	2245 Grant for reform linked plan	0.03	0.00
15	2246 Share Capital reform linked plan	0.02	0.00
16	2600-Assistance for free joureny to MP's of Rajasthan state in RSRTC Buses	6.00	1.98
17	2601-Reimursement of free/concesusonal Journy in RSRTC Buses	17500.00	17499.94
18	2603-Other City Transport Manegment	0.00	0.00
19	2605-Compensation to RSRTC for loses due to public movement	0.01	0.00
20	2606-Reimbursment of deffence Amt.in VAT on Diesel.	0.00	0.00
	Total RSRTC	**38006.13**	**38001.92**
21	2341-Loan/Grant/Share capital to RSBTDA	100.00	30.00
	Total -RSBTA	**100.00**	**30.00**
	Grant Total	**51935.82**	**40395.77**

Table 4.11

YEARWISE GREEN TAX FROM VEHICLES

(Rs. In Lacs)

S.No.	District	2017-18	2018-19	2019-20
1	2	3	4	5
1	Jaipur	3052.65	2562.47	2401.91
2	Dudu	140.71	111.05	215.22
3	Kotputali	454.40	179.52	332.21
4	Chomu	251.72	119.60	205.64
5	Shahpura	314.71	153.19	242.62
	Total	**4214.19**	**3125.83**	**3397.60**
6	Dausa	289.17	369.85	386.59
7	S.Madhapur	220.36	163.30	270.44
8	Karauli	183.99	167.81	232.11
	Total	**693.52**	**700.96**	**889.14**
9	Sikar	626.96	755.31	791.58
10	Jhujhunu	480.68	342.88	586.65
11	Churu	337.10	337.50	371.00
12	Sujangarh	127.48	135.20	146.26
13	Khetri	0.00	0.00	52.32
	Total	**1281.39**	**1570.89**	**1947.81**
14	Alwar	613.48	685.16	847.65
15	Shajhanpur	0.00	0.00	0.00
16	Bhiwadi	239.22	148.96	189.42
	Total	**852.70**	**834.12**	**1037.07**
17	Bharatpur	401.37	547.70	574.59
18	Dholpur	320.62	310.68	391.53
	Total	**721.99**	**858.38**	**966.12**
19	Ajmer	590.78	586.78	633.37
20	Beawer	188.34	447.50	141.94
21	Nagaur	679.03	539.63	739.87
22	Deedwana	339.49	204.71	368.34
23	Tonk	295.76	249.37	297.10
24	Kishangarh	123.91	116.13	102.47
25	Kekri	80.86	90.08	85.89
	Total	**2298.17**	**2234.20**	**2368.98**
26	Jodhpur	1129.43	731.67	1275.32
27	Barmer	372.40	155.98	362.78
28	Jaisalmer	124.14	88.99	166.99
29	Balotra	155.50	109.63	181.39
30	Phalodi	156.28	91.09	120.83
	Total	**1937.75**	**1177.36**	**2107.31**

Table 4.11 (Contd.)				
YEARWISE GREEN TAX FROM VEHICLES				
District and Yearwise				
				(Rs. In Lacs)
S.No.	District	2017-18	2018-19	2019-20
1	2	3	4	5
31	Pali	524.75	354.71	475.52
32	Sirohi	134.30	182.73	187.87
33	Jalore	220.71	105.00	177.23
34	Abu Road	111.35	150.29	137.06
35	Bhinmal	182.17	42.48	162.90
	Total	**1173.28**	**835.21**	**1140.58**
36	Udaipur	906.54	277.23	1170.88
37	Dungarpur	276.64	245.12	309.22
38	Ratanpur	0.00	0.00	0.00
39	Banswara	247.72	278.13	357.18
40	Rajasamand	223.80	46.39	246.55
	Total	**1654.70**	**846.87**	**2083.83**
41	Chittorgarh	664.16	787.92	891.05
42	Pratapgarh	86.76	85.95	140.75
43	Bhilawara	527.00	479.82	695.58
44	Shahpura	152.09	144.82	167.04
	Total	**1430.01**	**1498.51**	**1894.42**
45	Kota	452.79	687.67	745.33
46	Baran	238.00	212.34	238.75
47	Bundi	229.66	201.35	279.10
48	Jhalawar	276.59	249.52	335.68
49	R. Mandi	58.76	399.02	335.84
	Total	**1255.80**	**1749.90**	**1934.70**
50	Bikaner	553.91	720.22	811.45
51	Ganganagar	369.36	566.56	613.21
52	Hanumangarh	239.28	329.76	358.68
53	Nohar	156.37	119.68	176.15
54	Nokha	120.91	146.57	120.08
	Total	**1439.83**	**1882.79**	**2079.57**
	G.Total	**19244.16**	**17315.02**	**21847.13**

Table 8.1						
PERFORMANCE OF DEPARTMENTAL FLYING SQUADS						
YEAR WISE						**(Rs. In Lac**
S.No.	**Year**	**ACHIEVEMENT**		**VEHICLE (Nos)**		
		Total Revenue	**C.F.**	**Checked**	**Challan**	**Seize**
1	**2**	**3**	**4**	**5**	**6**	**7**
1	2010-11	37633.55	19753.77	3613662	569601	65759
2	2011-12	36332.66	17729.36	3063995	599957	64525
3	2012-13	31297.66	16287.43	2641555	558871	51041
4	2013-14	29693.79	16252.43	2144742	546537	38340
5	2014-15	44213.95	29947.36	2707403	650210	53985
6	2015-16	48258.86	27275.39	2950643	695646	67884
7	2016-17	54314.45	30605.33	4265084	647111	64619
8	2017-18	44245.69	31567.32	3080020	657320	59968
9	2018-19	41016.79	37020.78	3959231	787251	43727
10	2019-20	40523.86	36603.56	2888739	805032	42157

Table 8.2						
INFORMATION OF FLYING SQUADS						
YEAR 2019-20						
S. No.	**District**	**Achievement of C.F. (Rs In Lac)**	**Total Revenue (Rs In Lac)**	**Vehicle (Nos)**		
				Checked	**Challan**	**Seized**
1	**2**	**3**	**4**	**5**	**6**	**7**
1	Jaipur	3190.47	3454.10	195468	41492	6248
2	Dudu	398.16	474.27	26301	6433	1911
3	Kotputali	532.21	554.09	36325	9905	590
4	Chomu	264.08	319.45	15648	4662	771
5	Shahpura	348.10	476.30	12454	5602	879
	Total	**4733.02**	**5278.21**	**286196**	**68094**	**10399**
6	Dausa	668.83	709.25	50819	13959	322
7	S.Madhopur	179.66	193.91	10436	3312	787
8	Karoli	154.98	158.42	12961	5775	101
	Total	**1003.47**	**1061.58**	**74216**	**23046**	**1210**
9	Shahjhanpur	3482.59	3533.99	370976	86710	50
10	Alwar	865.98	1167.73	54417	15141	1331
11	Bhiwadi	571.86	683.84	51201	10684	1271
	Total	**4920.43**	**5385.56**	**476594**	**112535**	**2652**
12	Bharatpur	1141.37	1141.37	47846	20041	287
13	Dholpur	1625.98	1642.67	131037	39557	972
	Total	**2767.35**	**2784.04**	**178883**	**59598**	**1259**
14	Sikar	799.12	974.63	48933	13535	925
15	Jhunjhunu	277.01	403.64	25835	8170	318
16	Churu	268.49	295.18	18920	8009	328
17	Sujangarh	323.71	423.65	19465	6471	334
18	Khetri	167.43	225.43	5010	1885	162
	Total	**1835.76**	**2322.52**	**118163**	**38070**	**2067**
19	Ajmer	1006.22	1156.68	56062	20059	2044
20	Beawar	358.38	401.19	72012	9076	185
21	Nagour	531.01	531.01	20619	7616	1089
22	Deedwana	285.99	318.72	20248	5246	221
23	Tonk	405.28	593.98	18329	6077	1581
24	Kishangarh	615.74	664.31	26124	10149	1342
25	Kekri	216.19	227.31	18486	6130	683
	Total	**3418.81**	**3893.20**	**231880**	**64353**	**7145**
26	Jodhpur	784.28	1050.39	155107	23875	1192
27	Barmer	317.54	564.44	18188	6305	669
28	Jaiselmer	111.63	117.48	5583	4021	9
29	Balotra	275.54	294.04	24444	7823	1084
30	Phalodi	187.81	208.12	27937	5745	248
	Total	**1676.80**	**2234.46**	**231259**	**47769**	**3202**

Table 8.2 (Contd.)						
INFORMATION OF FLYING SQUADS						
YEAR 2019-20						
S. No.	**District**	**Achievement of C.F. (Rs In Lac)**	**Total Revenue (Rs In Lac)**	**Vehicle (Nos)**		
				Checked	**Challan**	**Seized**
1	**2**	**3**	**4**	**5**	**6**	**7**
31	Pali	903.22	996.91	51708	24413	636
32	Sirohi	1351.03	1355.67	142308	29136	422
33	Jalore	122.60	179.53	429	4645	676
34	Aburaod	1179.17	1179.17	70735	22472	0
35	Bhinmal	654.78	848.93	31603	15224	166
	Total	**4210.80**	**4560.21**	**296783**	**95890**	**1900**
36	Udaipur	937.46	1074.87	73984	23133	1347
37	Ratanpur	3141.72	3194.97	408132	109747	15
38	Dungarpur	283.31	303.91	23735	7350	1979
39	Banswara	202.14	235.60	14944	4353	726
40	Rajsamand	405.47	482.24	32475	8684	776
	Total	**4970.10**	**5291.59**	**553270**	**153267**	**4843**
41	Chittorgarh	1726.88	1762.15	13033	29224	1721
42	Pratapgarh	112.75	164.36	15408	3131	62
43	Bhilwara	486.81	581.61	35685	11992	774
44	Shahpura(B)	400.10	412.99	19846	7607	582
	Total	**2726.53**	**2921.10**	**83972**	**51954**	**3139**
45	Kota	479.63	633.53	24336	10793	573
46	Bundi	364.57	399.72	46136	7893	407
47	Jhalawar	311.70	355.02	29277	8483	322
48	Baran	186.17	224.30	12233	3718	171
49	R.Mandi	223.83	228.94	13741	4769	70
	Total	**1565.89**	**1841.51**	**125723**	**35656**	**1543**
50	Bikaner	716.91	766.14	61569	13246	590
51	Ganganagar	755.24	832.24	57851	11910	1000
52	H.Garh	819.42	847.08	74015	18275	913
53	Nohar	238.76	248.25	18211	5806	157
54	Nokha	244.28	256.19	20154	5563	138
	Total	**2774.61**	**2949.90**	**231800**	**54800**	**2798**
	G.Total	**36603.56**	**40523.86**	**2888739**	**805032**	**42157**

Table 8.4									
COMPOSITE CHECKING OF VEHICLES									
YEAR WISE									
S.No.	**Type of Vehicle**	**Vehicles**		**Without Permit**	**Without Registration**	**Violation of Permit Conditions**	**Over Loading of Vehicles**	**Vehicle Seized**	**Amount (Rs in Lacs)**
		Checked	**Challan**						
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
1	2010-11	830442	168542	1043	770	127950	31400	13916	4702.86
2	2011-12	811141	197344	4148	2651	141347	35388	18017	5084.18
3	2012-13	602945	136010	2976	2159	88713	32714	13356	5144.44
4	2013-14	604230	191392	3876	2174	128071	44833	13977	7215.36
5	2014-15	1118624	391008	2869	2146	235169	121101	18642	17987.36
6	2015-16	1273883	406963	5320	4897	240164	76066	27493	15946.68
7	2016-17	612410	210468	5845	4861	98158	48142	19291	10736.48
8	2017-18	571295	159413	3739	3467	58605	35112	13005	9147.19
9	2018-19	775360	232849	4989	3705	88195	44560	11479	10430.54
10	2019-20	541195	190677	4834	7821	48956	26861	8593	7587.40

Table 8.5

COMPOSITE CHECKING OF VEHICLES

YEAR 2019-20

S. No.	Type of Vehicle	Vehicles		Without Permit	Without Registration	Violation of Permit Conditions	Over Loading of Vehicles	Vehicle Seized	Amount (Rs in Lacs)
		Checked	Challan						
1	2	3	4	5	6	7	8	9	10
1	Bus	29375	8626	1117	319	1517	1033	582	546.65
2	Mini Bus	14939	2213	187	135	230	195	43	31.30
3	Jeep	16729	4059	644	201	142	530	282	184.23
4	Car	12831	2658	216	76	209	281	178	37.27
5	Truck	369908	151062	4353	2133	45468	22504	5566	5654.31
6	Jugar	0	22	21	9	36	152	18	0.00
7	Other	97413	22037	1283	1961	1354	2166	1924	1133.65
	Total	**541195**	**190677**	**7821**	**4834**	**48956**	**26861**	**8593**	**7587.40**

Table 8.5

COMPOSITE CHECKING OF VEHICLES

YEAR 2018-19

S. No.	Type of Vehicle	Vehicles		Without Permit	Without Registration	Violation of Permit Conditions	Over Loading of Vehicles	Vehicle Seized	Amount (Rs in Lacs)
		Checked	Challan						
1	2	3	4	5	6	7	8	9	10
1	Bus	34359	6148	852	228	1280	736	603	415.05
2	Mini Bus	13047	1168	39	16	137	217	75	41.03
3	Jeep	17062	3590	529	172	228	592	401	160.52
4	Car	14500	2588	115	96	271	535	147	65.85
5	Truck	607685	198743	2836	1442	84855	40168	8229	8645.36
6	Jugar	355	31	0	5	0	0	8	5.64
7	Other	88352	20581	618	1746	1424	2312	2016	1097.10
	Total	**775360**	**232849**	**4989**	**3705**	**88195**	**44560**	**11479**	**10430.54**

Table 8.5

COMPOSITE CHECKING OF VEHICLES

YEAR 2017-18

S. No.	Type of Vehicle	Vehicles		Without Permit	Without Registration	Violation of Permit Conditions	Over Loading of Vehicles	Vehicle Seized	Amount (Rs in Lacs)
		Checked	Challan						
1	2	3	4	5	6	7	8	9	10
1	Bus	26472	5245	709	164	1589	562	717	463.22
2	Mini Bus	5126	685	56	39	103	142	130	67.57
3	Jeep	13355	3362	559	328	193	973	479	244.31
4	Car	11535	2394	187	132	591	609	338	142.69
5	Truck	478642	137018	1836	941	55664	30930	9319	7456.59
6	Jugar	54	25	0	10	2	1	5	2.17
7	Other	36111	10684	392	1853	463	1895	2017	770.64
	Total	**571295**	**159413**	**3739**	**3467**	**58605**	**35112**	**13005**	**9147.19**

Table 8.6

COMPOSITE CHECKING OF VEHICLES

Year 2019-20

S. No.	District	Vehicle Checked	Challan Of Vehicle	without Registration	Without Permits	Violation of Permit Condition	Over loading of Vehicle	Vehicle Seized	Amount (Rs. in Lacs)
1	2	3	4	5	6	7	8	9	10
1	Jaipur	0	0	0	0	0	0	0	0.00
2	Dudu	0	0	0	0	0	0	0	0.00
3	Kotputli	918	142	1	0	50	71	13	8.64
4	Chomu	0	0	0	0	0	0	0	0.00
5	Shahpura	274	98	1	6	22	12	11	8.44
	Total	1192	240	2	6	72	83	24	17.08
6	Dausa	45016	13942	396	525	4102	1211	291	690.06
7	S.Madhopur	0	4319	900	572	665	1433	826	262.06
8	Karouli	0	0	0	0	0	0	0	0.00
	Total	45016	18261	1296	1097	4767	2644	1117	952.12
9	Sikar	41508	13767	464	1203	4359	1782	786	831.19
10	Jhunjhunu	27435	8170	711	334	1172	1029	317	284.99
11	Churu	0	4515	151	193	722	658	223	90.37
12	Sujangarh	5721	2247	172	114	661	627	138	110.86
13	Khetri	0	0	0	0	0	0	0	0.00
	Total	74664	28699	1498	1844	6914	4096	1465	1317.41
14	Alwar	0	0	0	0	0	0	0	0.00
15	Shanjahapur	15333	4231	0	19	3917	33	61	190.88
16	Bhiwadi	0	0	0	0	0	0	0	0.00
	Total	15333	4231	0	19	3917	33	61	190.88
17	Bharatpur	57571	20201	36	102	1128	3080	637	1196.90
18	Dholpur	142	5	0	0	0	4	4	0.99
	Total	57713	20206	36	102	1128	3084	641	1197.89
19	Ajmer	0	0	0	0	0	0	0	0.00
20	Beawar	165	57	0	0	8	37	0	2.06
21	Nagour	11007	3926	74	185	1608	609	613	203.01
22	Tonk	549	522	362	105	5	509	534	89.41
23	Didwana	0	0	0	0	0	0	0	0.00
24	Kishangrah	0	0	0	0	0	0	0	0.00
25	Kekri	0	0	0	0	0	0	0	0.00
	Total	11721	4505	436	290	1621	1155	1147	294.48
26	Jodhpur	157687	23815	11	91	4093	4206	1152	0.00
27	Barmer	0	0	0	0	0	0	0	0.00
28	Jaisalmer	1438	304	0	0	0	92	157	5.44
29	Balotra	0	0	0	0	0	0	0	0.00
30	Phalodi	0	0	0	0	0	0	0	0.00
	Total	159125	24119	11	91	4093	4298	1309	5.44

Table 8.6 (Contd.)									
COMPOSITE CHECKING OF VEHICLES									
Year 2019-20									
S. No.	District	Vehicle Checked	Challan Of Vehicle	without Registration	Without Permits	Violation of Permit Condition	Over loading of Vehicle	Vehicle Seized	Amount (Rs. in Lacs)
1	2	3	4	5	6	7	8	9	10
31	Pali	282	204	1	4	16	80	24	10.21
32	Sirohi	0	0	0	0	0	0	0	0.00
33	Jalore	0	0	0	0	0	0	0	0.00
34	Abu Road	42573	13971	14	37	6506	254	0	316.39
35	Bhinmal	0	0	0	0	0	0	0	0.00
	Total	42855	14175	15	41	6522	334	24	326.60
36	Udaipur	15702	2659	61	208	607	476	223	110.42
37	Dungarpur	0	453	0	26	161	12	91	47.74
38	Ratanpur	590	250	0	0	2	1	0	34.97
39	Banswara	547	159	5	9	26	9	39	2.44
40	Rajsamand	0	0	0	0	0	0	0	0.00
	Total	16839	3521	66	243	796	498	353	195.57
41	Chittorgarh	21238	16338	33	12	11357	591	211	829.23
42	Pratapgarh	0	0	0	0	0	0	0	0.00
43	Bhilwara	21101	6475	45	7	4723	399	400	137.55
44	Shahpura	0	0	0	0	0	0	0	0.00
	Total	42339	22813	78	19	16080	990	611	966.78
45	Kota	0	0	0	0	0	0	0	0.00
46	Bundi	0	0	0	0	0	0	0	0.00
47	Jhalawar	665	249	0	0	51	61	14	7.59
48	Baran	193	100	0	3	7	29	3	2.86
49	R.Mandi	0	0	0	0	0	0	0	0.00
	Total	858	349	0	3	58	90	17	10.45
50	Bikaner	61569	13246	270	906	1377	3090	772	698.76
51	Ganganagar	0	11796	221	1622	1068	2404	567	336.75
52	H.Garh	0	17062	869	1440	311	1127	433	774.56
53	Nohar	11141	7288	36	96	208	2837	52	292.51
54	Nokha	830	166	0	2	24	98	0	10.12
	Total	73540	49558	1396	4066	2988	9556	1824	2112.70
	G. Total	541195	190677	4834	7821	48956	26861	8593	7587.40

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Noise Induced Hearing Loss

Noise Induced Hearing Loss

The word noise is derived from the Latin word "*nausea*" meaning impulsive, unwanted, and unpleasant. Noise pollution can be defined as any unwanted electromagnetic signal that produces a jarring or displeasing effect and which interferes with human communication, comfort and feeling of wellbeing. Noise-induced hearing loss (NIHL) is the most common cause of Sensorineural hearing loss (SNHL).

NIHL is one of the most common workplace disorders and the second most self-reported occupational injury. In U.S. alone thirty million workers are at risk for noise-induced hearing loss, and 22 million American adults ages 20 to 69 already have it. Forty-four percent of carpenters and 48 percent of plumbers report having a hearing loss. By age 25, the average carpenter has the same hearing as a 50-year-old person who does not work around hazardous noise.

World Health Organization (WH)) estimated 360 million individuals in the world with disabling hearing loss, out of which 91% are adults and only 9% are children.1 Prevalence of disabling hearing impairment in South East Asia is 2.4% in children; 9.5% in adults below 65 years and up to 48% in adults above the age of 65.2 The most common etiological factor for this age related deafness is noise pollution. National Institute on Deafness and Other Communication Disorders (***NIDCD***) estimates that 15% of population has got decreased hearing due to loud noise which may be noise at work, leisure activity or use of mobile phone only3. Two publications in Indian Journal of Otology state that use of mobile phone may lead to sensorineural deafness4 and if continuously for more than 30 minutes, may lead to 10 dB transient hearing loss.5

As per data available 3% average population suffers from deafness6 which includes both conductive and sensorineural hearing loss,7 but the incidence is rising due to noise pollution which may be much higher in metros, in genetically prone families and in persons with anemia and vitamin D deficiency,8,9 or with other associated factors.

Exposure to sound above a level of approximately 85 dB initially manifest as a temporary hearing loss or dullness of hearing that is known as temporary threshold shift (TTS), which may have fast resolution within first 10-15 days of the exposure. However, a repeated or sustained exposure of noise to the hair cells and associated nerve fibers leads on to degenerative changes and the TTS becomes permanent threshold shift (PTS). The effect of excessive noise could be so devastating that it can cause permanent memory loss or psychiatric disorder. There are many hypothesis that include mechanical injury from basilar membrane motion, metabolic exhaustion, activity induced ischemia and ionic poisoning from breaks in cell membrane.

Noise-induced hearing loss is 100% preventable, but once you have hearing loss, you'll have it for life. Exposure to harmful sounds causes damage to the sensitive structures of the inner ear. These structures can be injured instantly from an intense, brief impulse, such as the explosion of a firecracker10, or gradually from continuous exposure to noise, such as in a woodworking shop.

Noise exposure can cause two kinds of health effects. These effects are nonauditory effects and auditory effects. Nonauditory effects include stress-related physiological and behavioral effects, and safety concerns. Auditory effects include hearing impairment resulting from excessive noise exposure and tinnitus. Noise-included permanent hearing loss is the main concern related to occupational noise exposure.

The main auditory effects include:

1. Acoustic trauma
2. Tinnitus (Ringing or buzzing in the ear)
3. Temporary hearing loss / temporary threshold shift (TTS): It occurs immediately after exposure to a high level of noise or a sustained sound by ear phone or mobile phone. These shifts usually involve the 3-8 kHz range. They tend to resolve within minutes to hours while complete recovery depends on the degree of shift & type of noise trauma.
4. Permanent hearing loss /permanent threshold shift (PTS): If exposure to loud noise continues at a rate of eight hours a day and five days a week, it can be a threat to develop permanent hearing loss. The hearing impairment is noticeable only when it is substantial enough to interfere with routine activities. At this stage, a permanent and irreversible hearing damage has occurred. When noise exposure stops, the person does not regain the lost hearing sensitivity. As the employee ages, hearing may worsen as "age-related hearing loss" adds to the existing noise-induced hearing loss. This loss, usually, is permanent and is not satisfactorily cured by medicines or any devices such as, hearing aids. There is focal loss of hair cells and degeneration of nerve terminals.

We should protect hearing of our children as voice development is dependent upon proper hearing of a child. Pre-lingual deaf child will have to go for Cochlear implantation before the age of 5 years for proper voice development.

Two types of hearing loss are: conductive and sensorineural.In conductive deafness sound-pressure waves are unable to reach the cochlea due to external ear canal blockage, ruptured tympanic membrane (TM) or a defect in the ossicles of the middle ear.

The function of middle ear structures (TM, malleus, incus & stapes) is to convert ear pressure changes into the vibrations of the inner ear fluids. During sound transmission through the middle ear, the tensor tympani and the stapedius muscles play an important role in inner ear protection from high intensity acoustic stimuli of moderate frequencies.

Sensorineural hearing loss can be noise-induced or increasing age-related. The pathology in NIHL lies with the outer hair cells of the cochlea causing interference in the mechano-electrical transduction. The Organ of Corti is the site for mechano-electrical transduction of the sound signal as this organ contains hair cells and supporting cells. Possible mechanisms involved are mechanical injury from basilar membrane motion, metabolic exhaustion, activity-induced ischaemia, and / or ionic poisoning from cell membrane breaks.11 Pathological changes range from bending or fusion of cilia, up to the total destruction of supporting cells. Other hypotheses for NIHL include nerve rootlet damage by overstimulation from outer hair cell, over secretion of glutamate or cellular damage from glutathione depletion. Sensorineural deafness by virtue of acoustic trauma is more common type of loss in teenagers today listening to loud rock music.

Hazardous sound levels are louder than 80 decibels. That's not as loud as traffic on a busy street. Listening to loud music, especially on headphones, is a common cause of noise-induced hearing loss. The degree of a hearing hazard is related to both the level of the noise and the duration of the exposure. Sound is measured in decibels (dB). Prolonged (long or repeated) exposure to noise at or

above 85 dB can cause hearing loss. A normal conversation takes place at about 60 dB. A hand drill measures 98 dB, a spray painter 105 dB, a hammer drill 114 dB, and a pneumatic percussion drill 119 dB. (Table-I)

Industrial Noise Levels

Source	Noise level (dB)
1. Steel plant riveting	130
2. Oxygen torch	126
3. Boiler maker's shop	120
4. Textile loom	112
5. Circular saw	110
6. Farm tractor	103
7. News paper press	101
8. Bench lathe	95
9. Milling machine	90
10. High speed drill	85
11. Key Press machine	82
12. Super market	60

Table-I

The National Institute of Occupational Safety and Health has issued guidelines about the amount of time you can be exposed to different noise levels safely. If the level of noise in your workplace averages 85 decibels, you are at risk for noise-induced hearing loss after eight hours of exposure. If the average level of noise is 88 decibels, you are at risk after only four hours of exposure. Remember—the greater the noise level, the less time before hearing damage can occur. (Table-II) In the initial stages, noise-induced hearing loss is most pronounced at 4000 Hz but it spreads over other frequencies as noise level and/or exposure time increases. Noise trauma is known to cause 4 kHz notch or Aviators notch. Government and regulatory beets have fixed the permissible limit of sound levels.

Permissible Sound Levels

	Areas	**Day**	**Night**
1.	Industrial area	75 dB	65 dB
2.	Commercial area	65 dB	55 dB
3.	Residential area	50 dB	45 dB
4.	Sensitive areas up to 100 meter around hospitals, educational institutions	50 dB	40 dB

Table-II

Sound Intensity & Permissible Time Limit

Exposure Level (dBA)	**Duration Time - t - (s)**		
	Hours	**Minutes**	**Seconds**
80	25	24	

Exposure Level (dBA)	Duration Time - t - (s)		
	Hours	Minutes	Seconds
81	20	10	
82	16		
83	12	42	
84	10	5	
85	8		
86	6	21	
87	5	2	
88	4		
89	3	10	
90	2	31	
91	2		
92	1	35	
93	1	16	
94	1		
95		47	37

Exposure Level (dBA)	Duration Time - t - (s)		
	Hours	Minutes	Seconds
96		37	48
97		30	
98		23	49
99		18	59
100		15	
101		11	54
102		9	27
103		7	30
104		5	57
105		4	43
106		3	45
107		2	59
108		2	22
109		1	53
110		1	29

Exposure Level (dBA)	Duration Time - t - (s)		
	Hours	Minutes	Seconds
111		1	11
112			56
113			45
114			35
115			28
116			22
117			18
118			14
119			11
120			9
121			7
122			6
123			4
124			3
125			3

Exposure Level (dBA)	Duration Time - t - (s)		
	Hours	Minutes	Seconds
126			2
127			1
128			1
129			1
130			1
-140			< 1

Table-III

Non audiological Pathological disorders:

(i) High frequencies or ultrasonic sound above the audible range damages inner ear and induces nausea and dizziness in man.

(ii) Exposure to mid-audible frequency affects brain and nervous system with significant impact on thinking and coordination of limbs.

(iii) Moderate vibration can lead to pain, numbness and cyanosis of fingers and toes. It causes contraction of blood vessels, makes the skin pale leads to excessive secretion of adrenaline hormone into blood thereby inducing high blood pressure, along with thickening of blood and changes in breathing amplitude.

(iv) Severe vibration results in damage to bones and joints in the hands along with swelling and stiffness.

(v) Exposure to low frequency noise can reduce heart beat, variation in blood pressure and breathing difficulties.

(vi) Noise of a jet engine may aggravate or may lead to gastric ulcer and thymus gland atrophy.

(vii) Depression, anxiety, insecurity, and paranoia, and involvement in unsocial activities.

As required by government agencies, workplaces that involve exposure to noise have a mandated hearing conservation program (HCP). HCPs feature a number of components included sound management, engineering and administrative controls, audiometric monitoring, and use of personal hearing protection. Understanding of the process, evaluation and treatment of NIHL is of vital importance to the practicing otorhinolaryngologists. You can protect your hearing by-

- Keeping the volume down while listening to music
- The safest way to protect your ears is to always wear hearing protectors anytime you are around loud noises.

Work places where noise and ototoxic chemical combine include painting, printing, construction, furniture, manufacture of metals fuelling vehicles, fire fighting, pesticide spraying needs special mention and their employee need particular attention. Organic solvent seeks special mention as they are two fold harmful one as in manufacturing unit second as a consumer as it is used in detergents, medicines, perfumes, fabric, paper coating and laser printing inks and insect repellents.

In environmental problems leading to health hazards noise is the easiest to control but awareness among the public and strict regulatory authority is required. No significant attention has been drawn towards preventive measures. No concrete efforts have been made to decrease the intensity of sound (Noise) in industrial area even the manufacture are not made aware to decrease the noise level of industrial machines. Workers at many places are not provided with preventive devices, ear plugs or ear muffs. Remember noise level drops about 6 dB each times if distance is doubled.

Methods of minimizing Industrial noise pollution:

The noise pollution in industries can be lowered down by adopting improved techniques, Sound proofing, and Transmission control. The level of noise can be minimized by covering the walls with acoustic tiles, introducing gaskets at the doors and windows, sealing the outlets and putting carpet, drapery and acoustic materials inside the room.

Green vegetation cover by planting the trees should be along highways, streets and industrial areas as vegetation covers absorb and dissipate sound energy and acts as a buffer zone.

Operations in open space: Noisy industrial operations may be conducted at open spaces far off from residential areas in day time only.

Protective devices use (ear plugs or ear muffs or even cotton balls) in the industry can protect from hazardous effects of noise. Government should provide subsidiary for it. NGO must be promoted to join hands in public education and awareness program. We must remember with increase in life span after ten years we will be having more than 18% citizens and up to 40% above the age of 75 years having disabling deafness all the more out of which only 20% will be benefited by hearing aids hence we have to take all precaution and necessary measures to prevent all preventable or avoidable type of hearing loss especially taking care of noise pollution.

Start protecting your ears now by avoiding noise pollution and hearing relaxing technique yoga. Meditation and weekly off in quit areas.

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