

Environmental Monitoring Report

Semiannual Report (January to June 2021)
July 2021

India: Delhi-Meerut Regional Rapid Transit System
Investment Project - Tranche 1

Annex 1- Part 1

Prepared by the National Capital Region Transport Corporation (NCRTC), Government of India for the Asian Development Bank.

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ANNEX 1

PROJECT OFFICE ADDRESS :

AFCONS INFRASTRUCTURE LIMITED
 OFFICE NO. A2 & A3, 1ST FLOOR
 B-156, NEW ASHOK NAGAR
 NEAR METRO PILLAR NO. 167
 DELHI - 110096



Ref: AFC/3570/NCRTC/ 608

Date: 10/07/2021

To,
The Engineer,
 Project P6 of NCRTC,
 A601, IRWO Classic Apartment,
 Rail Vihar, Sector -57,
 Gurgaon-122003, Haryana

(Kind Attention- Mr. Satish Kumar)

Project: - Package 6: Construction of elevated viaduct from Sarai Kale Khan station to New Ashok Nagar DN Ramp including Jangpura entry ramp and two nos. of elevated stations viz., Sarai Kale Khan & New Ashok Nagar [including Pre-engineered steel roof structure but excluding Architectural Finishing of Stations] of Delhi- Meerut Regional Rapid Transit System (RRTS) Corridor.

Sub: - Submission of Monthly Environment Report for the month of June 2021.

Ref: - Contract Agreement no. DM/CN/COR-OF/095 signed on 26.11.20.

Dear Sir,

Pursuant to Clause 14.3 of Employer's requirement on SHE, we are hereby submitting the Monthly Environment Report for the month of June 2021, for your kind information and record.

Thanking and assuring you our best services always.

FOR AFCONS INFRASTRUCTURE LTD,


 (Gautam Shankarlal)
 Project Manager

Enclosures: As stated above.

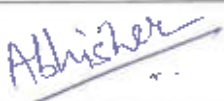


Copy to: CPM/Delhi, Engineer's Representative.

MONTHLY ENVIRONMENT REPORT

June' 2021

Project: Construction of Elevated Viaduct, From Sarai Kale Khan Station to New Ashok Nagar DN Ramp Including Jangpura Entry Ramp and Two Numbers of Elevated Stations VIZ., Sarai Kale Khan & Ashok Nagar (Including Pre-Engineered Steel Roof Structure but Excluding Architectural Finishing of Stations) of Delhi –Meerut Regional Rapid Transit System (RRTS) Corridor for Package-06

Reference: Employer's Requirement on Safety, Health & Environment.

Prepared By	Reviewed By	Approved By
Mr. Abhishek Verma	Mr. Man Singh	Mr. Gautam Shankarlal
		
Sr. Environment Manager	Chief SHE Manager	Project Manager
10.07.2021	10.07.2021	10.07.2021



MONTHLY ENVIRONMENT REPORT



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MONTHLY ENVIRONMENT REPORT



1. Project Details

<u>Project Information</u>		
1.	General description of the Work	Construction of Elevated Viaduct, From Sarai Kale Khan Station to New Ashok Nagar DN Ramp Including Jangpura Entry Ramp and Two Numbers of Elevated Stations VIZ., Sarai Kale Khan & Ashok Nagar (Including Pre-Engineered Steel Roof Structure but Excluding Architectural Finishing of Stations) of Delhi-Meerut Regional Rapid Transit System (RRTS) Corridor
2.	Package	06
3.	Employer	National Capital Region Transport Corporation limited
4.	Contractor	AFCONS INFRASTRUCTURE LIMITED
5.	Date of LOA:	15/10/2020
6.	Date of signing of Contract	26/12/2020
7.	Date of Commencement/ notice to Proceed	07/12/2020
8.	Stipulated Completion Period of Work	910 Days

2. Executive Summary

NCR is a multi-state region with Delhi as its center. The existing transport system within the region, consisting of a variety of modes like private and public road transport, suburban rail system is inadequate and there is urgent need to enhance the regional transport system. The transportation system in NCR has not been able to keep pace with rising demand leading to daily traffic congestions, increased vehicular emissions, long travelling time etc. Therefore, Government of India decided to provide a high-speed rail based high capacity and high quality i.e. reliable, fast, comfortable mass transport system in this region.

As per national policy and regulatory framework requirements as stipulated in EIA Notification 2006 by MOEF&CC, all railways' projects in India are exempted from requirements of prior environmental clearance and preparation of the EIA. Therefore, environmental clearance from MOEF&CC for Delhi-Ghaziabad Meerut RRTS project is not required. Also, the alignment passes over Yamuna River, a clearance will be required from Yamuna Standing Committee for construction on Yamuna Riverbank. We have obtained NOC from Yamuna Standing Committee and forest clearances applications have been submitted which are under processing by the concerned departments.



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Noise Level

Noise monitoring is being done by third party. It is also being monitored in-house by SHE personal every weekday & night to develop a comparative analysis of the deviations due to various sources. Noise will be generated from various source like construction work from various machineries like crane, lifting machine, Road traffic etc. Noise will be monitored from every possible source. We are providing personal protective equipment's to all the workers and employees to protect them from noise generated from various sources.

Table.1: Ambient Noise Standard (As per CPCB)

Area Code	Categorization 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

Table.2: Base Line data for Ambient Noise

Location	Date	Category of Area Zone	Noise Levels (Day time), Leq dB (A)	Noise Levels (Nighttime), Leq dB (A)
Ghazipur Casting Yard	11.02.2021	Industrial	81.8	81.1
New Ashok Nagar	11.02.2021	Residential	66.9	68.2
Sarai Kale Khan Station	12.02.2021	Commercial	80.6	77.5
Well Foundation (Yamuna Flood Plane-P105)	12.02.2021	Silence Zone	66.3	61.2

Air Quality

Ambient air quality is being monitored every 15 days i.e. twice a month by the third party to ensure that all the parameters are within the standard prescribed by Central Pollution Control Board. 24-hour RSPM (PM10) is being monitored taking into consideration the prevailing condition of the site. Monitoring report of PM10 has through exceeded the standard $100\mu\text{g}/\text{m}^3$ prescribed by CPCB but the results are nearby baseline data, enlisted herewith.

Table.3: Base line data for Ambient air Monitoring

PARAMETERS	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
Units	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	mg/m^3
Frequency (Hours)	24	24	24	24	08
NAAQ standards	100	60	80	80	02
LOCATIONS					
Ghazipur Casting Yard	380.5	264	12.8	68.5	0.76



MONTHLY ENVIRONMENT REPORT



New Ashok Nagar	298	176.4	10.2	52.4	0.66
Sarat Kate Khan Station	356.2	248.2	14.6	61.2	0.68
Well Foundation (Yamuna Flood Plane- P105)	282.2	192.8	10.9	48.2	0.46

Dust Mitigations measures has been taken to control the dust emission from site. Water Sprinkling is in practice for multiple time in a day depending upon site activity and atmosphere. Anti-smog also deployed at various site to control smog, smoke and dust generation from excavation activity.

Water Quality

Water quality monitoring will be started once in six months. Ground water quality monitoring will be done as per BIS standards. The ETP/Wheel wash treated water also get tested once in six months as per legal (mentioned in CTO) requirement.

3. Brief Details of Construction Scope

Table 4: Details of Construction Scope and activity carried out this month.

S. No	Description	Unit	Total Scope	June'21	Cumulative
1	Barricade Board	RM	20862.2	87	2981
	Viaduct	RM	16895	87	2009
	Station	RM	1256	-	1018
	Stabling Yard	RM	2711	-	41
2	Fencing-Casting Yard			11	
	Footing	Nos	500	8	494
	Column	Nos	1000	3	988
	Truss Erection	Nos	500	-	494
	Horizontal Member and Sheeting	SQM	15000	1250	14500
3	Utility Identification	Nos	429	3	168
	Viaduct	Nos	325	3	121
	Station	Nos	50	-	40
	Stabling Yard	Nos	54	-	10
4	Soil Investigation	Nos	22	-	22
	Viaduct	Nos	9	-	9
	Stabling Yard	Nos	13	-	13
5	Test Pile	Nos	9	1	5
	Viaduct	Nos	2	-	1
	Station	Nos	4	-	4
	Stabling Yard	Nos	3	1	1
6	Working Pile	Nos	2875	110	574
	Viaduct	Nos	2099	71	465
	Station	Nos	444	39	109



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7	Stabling Yard	Nos	332	-	-
	Well Foundation	Nos	32	34	-
	Cutting Edge	Nos	32	-	13
	Well Curb	Nos	32	-	11
	Well Steining	Lift	416	34	67
	Pile Cap	Nos	409	11	9
8	Viaduct	Nos	307	9	19
	Station	Nos	50	2	2
	Stabling Yard	Nos	52	-	-
	Pier	Nos	527	4	-
9	Viaduct	Nos	391	4	4
	Station	Nos	50	-	-
	Stabling Line	Nos	86	-	-
	Sheet Pile	Nos	125	9	-
10	Sheet Pile	Nos	125	9	26
	Box Girder	Nos	2712	8	12
11	Box Girder Casting	Nos	2712	8	12

4. Monitoring Reports for the Month and Cumulative

a. Air Quality

The environment monitoring program is scheduled, and parameter check is being conducted during the report period.

Table 5: Air Monitoring data

PARAMETERS	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
Units		µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
Frequency (Hours)		24	24	24	24	08
NAAQ standards		100	60	80	80	2
BASE LINE VALUE & MONITORING RESULTS						
Ghazipur Casting Yard	Base Line Value	380.5	264	12.8	68.5	0.76
	02.06.2021 (1 st Fort Night Value)	198	137.6	15.8	44.6	0.49
	17.6.2021 (2 nd Fort Night Value)	207	144.2	16.0	48.3	0.52
New Ashok Nagar	Base Line Value	298	176.4	10.2	52.4	0.66
	02.06.2021 (1 st Fort Night Value)	182.2	122.4	14.2	38.4	0.46



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	17.06.2021 (2 nd Fort Night Value)	198	137.4	15.1	42.4	0.49
Sarai Kale Khan Station	Base Line Value	356.2	248.2	14.6	61.2	0.68
	03.06.2021 (1 st Fort Night Value)	209	153.2	17.4	45.6	0.52
	18.06.2021 (2 nd Fort Night Value)	217	145.6	16.5	50.2	0.54
Well Foundation (Yamuna Flood Plane-P105)	Base Line Value	282.2	192.8	10.9	48.2	0.46
	03.06.2021 (1 st Fort Night Value)	157.9	102.5	12.7	32.6	0.40
	18.06.2021 (2 nd Fort Night Value)	166	112.5	13.2	34.8	0.42

Graphical representation of monitoring result

The monitoring results for the reporting period were evaluated and compared with the national ambient air quality standards (NAAQS). Also as from the results the level of air pollutants is exceeding the permissible limits.

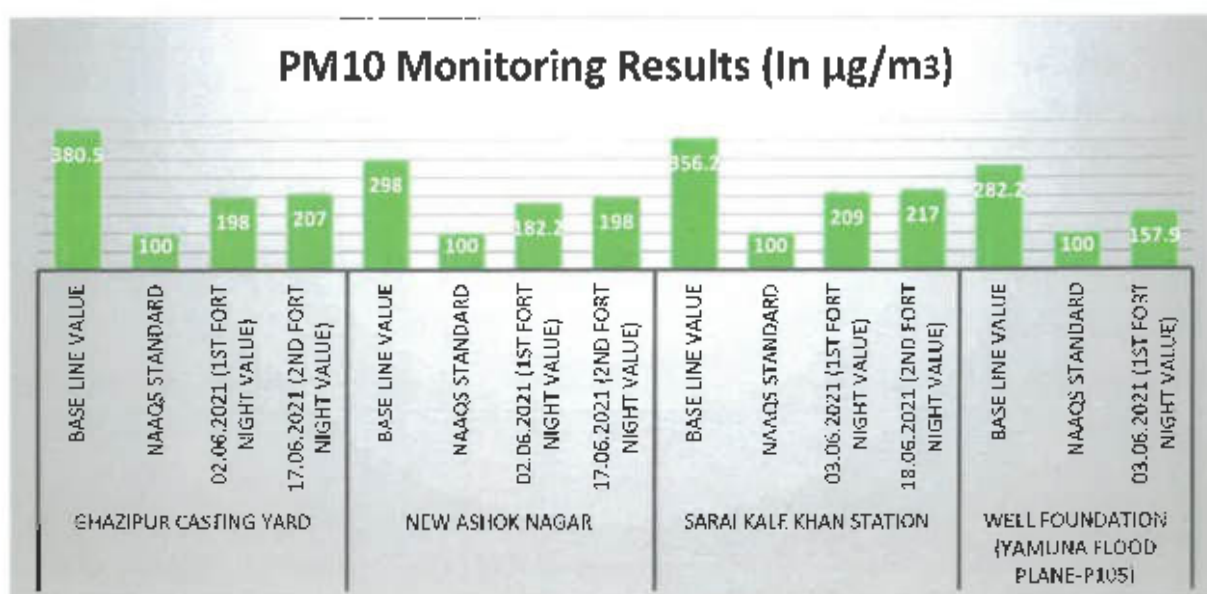


Fig1: Ambient Air quality monitoring – PM₁₀



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PM_{2.5} Monitoring Results (In $\mu\text{g}/\text{m}^3$)



Fig 2: Ambient Air quality monitoring – PM_{2.5}

SO₂ Monitoring Results (In $\mu\text{g}/\text{m}^3$)

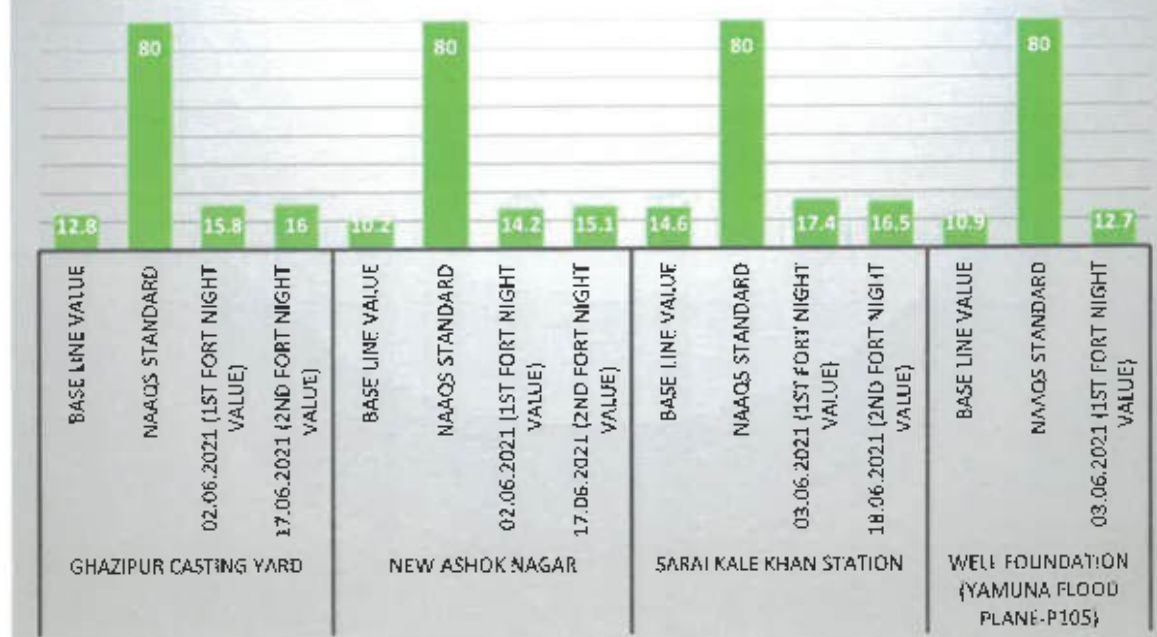


Fig 3: Ambient Air quality monitoring – SO₂



MONTHLY ENVIRONMENT REPORT



NO₂ Monitoring Reports (In $\mu\text{g}/\text{m}^3$)

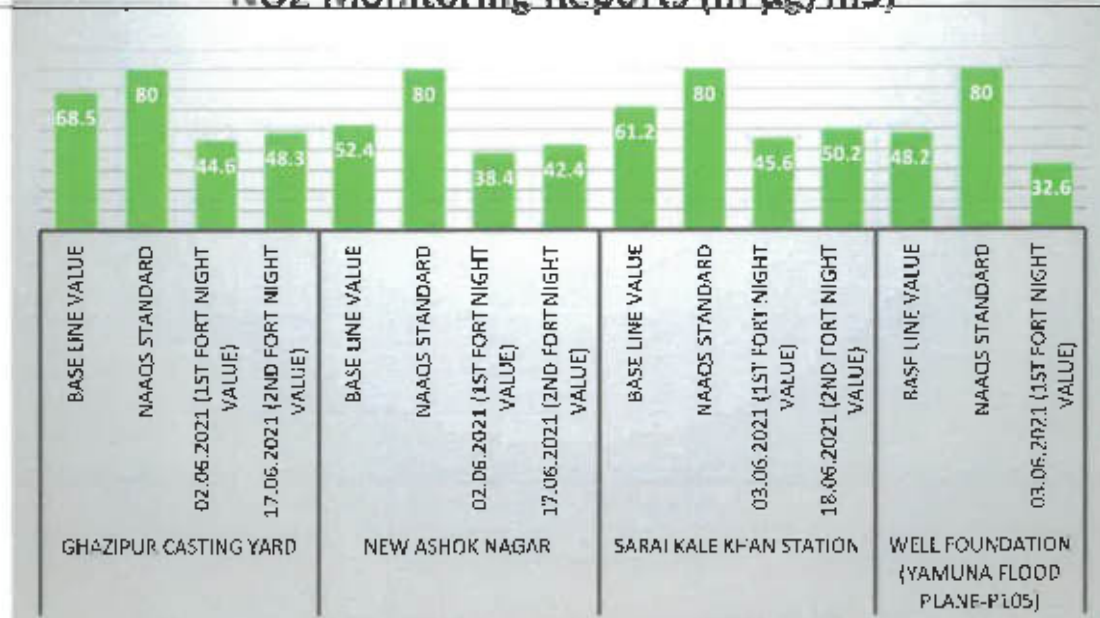


Fig 4: Ambient Air quality monitoring – NO₂

CO Monitoring Result (In $\mu\text{g}/\text{m}^3$)

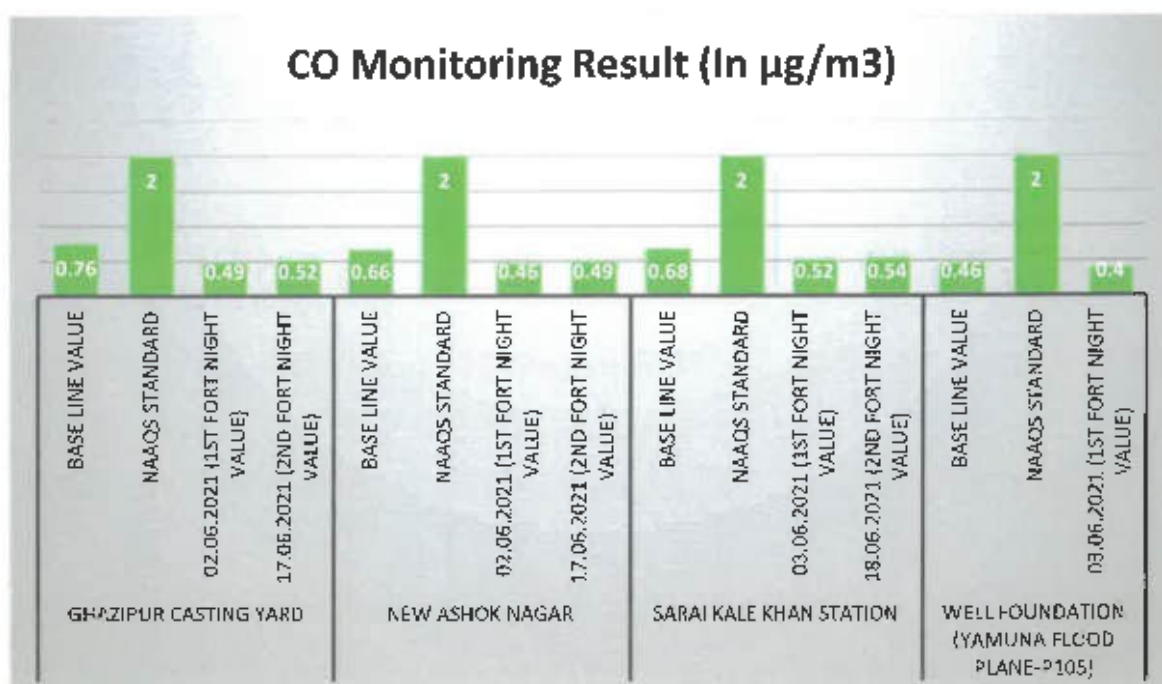


Fig 5: Ambient Air quality monitoring – CO



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b. Noise Quality

Day Time

Table 6: Day Time Noise Monitoring data

Location	Date	Category of Area Zone	National Standard (Day time), Leq dB (A)	Baseline Value (Day time), Leq dB (A)	Noise Levels (Day time), Leq dB (A)
Ghazipur Casting Yard	02.06.2021	Industrial	75	81.8	65.7
	10.06.2021				67.3
	17.06.2021				69.1
	25.06.2021				69.0
New Ashok Nagar	02.06.2021	Residential	55	66.9	64.9
	10.06.2021				66.2
	17.06.2021				66.9
	24.06.2021				66.9
Sarai Kale Khan Station	03.06.2021	Commercial	65	80.6	64.7
	10.06.2021				65.9
	18.06.2021				71.4
	25.06.2021				72.1
Well Foundation (Yamuna Flood Plane-P105)	03.06.2021	Silence Zone	50	66.3	62.4
	10.06.2021				63.7
	18.06.2021				65.6
	24.06.2021				66.0

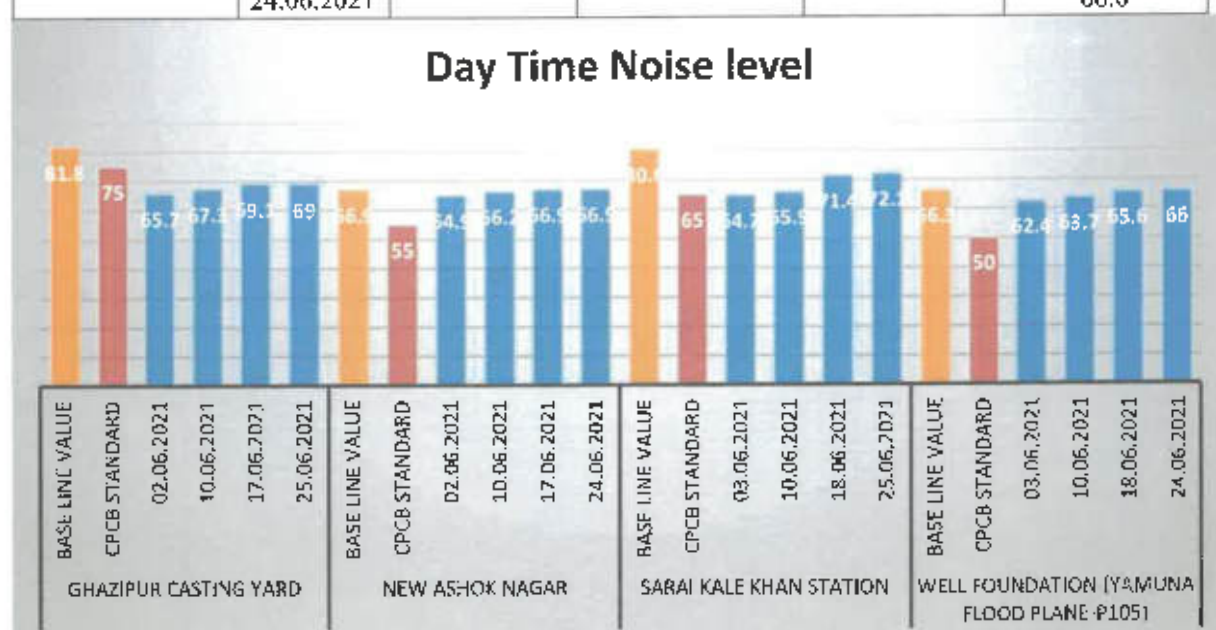


Fig 6: Day time Noise level Monitoring



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Day Time L10, L50, L90, Lmin & Lmax Values

Table 7: Day Time value of L10, L50, L90, Lmin & Lmax

Location	Date	L10	L50	L90	Lmin	Lmax
Ghazipur Casting Yard	02.06.2021	68.5	56.9	52.3	44.6	88.6
	10.06.2021	69.8	61.2	50.4	45.0	91.3
	17.06.2021	74.0	58.6	51.3	46.6	92.1
	25.06.2021	74.6	59.2	51.7	46.9	92.1
New Ashok Nagar	02.06.2021	67.8	55.1	51.4	43.2	86.7
	10.06.2021	69.2	61.4	52.6	43.6	89.3
	17.06.2021	73.2	54.8	52.0	46.4	93.7
	24.06.2021	68.7	61.1	52.2	44.1	90.2
Sarai Kale Khan Station	03.06.2021	68.3	55.1	50.2	45.1	86.3
	10.06.2021	72.6	62.8	52.9	45.6	88.9
	18.06.2021	77.1	58.7	50.5	47.2	92.4
	25.06.2021	77.9	60.3	51.4	47.5	94.4
Well Foundation (Yamuna Flood Plane-P105)	03.06.2021	65.3	54.1	47.6	44.7	84.7
	10.06.2021	67.8	59.3	50.6	45.1	87.2
	18.06.2021	69.2	58.6	52.7	45.5	89.3
	24.06.2021	69.8	59.0	53.3	45.8	89.7

Night-Time

Table 8: Nighttime Noise Monitoring data

Location	Date	Category of Area Zone	National Standard (Nighttime), Leq dB (A)	Baseline Value (Nighttime), Leq dB (A)	Noise Levels (Nighttime), Leq dB (A)
Ghazipur Casting Yard	02.06.2021	Industrial	70	81.1	63.6
	10.06.2021				56.6
	17.06.2021				65.1
	25.06.2021				64.8
New Ashok Nagar	02.06.2021	Residential	45	68.2	61.5
	10.06.2021				62.7
	17.06.2021				61.4



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	24.06.2021				64.3
	03.06.2021				61.9
Sarai Kale Khan Station	10.06.2021	Commercial	55	77.5	63.8
	18.06.2021				68.3
	25.06.2021				68.4
	03.06.2021				59.8
Well Foundation (Yamuna Flood Plane-P105)	10.06.2021	Silence Zone	40	61.2	62.0
	18.06.2021				61.8
	24.06.2021				62.1
	03.06.2021				59.8

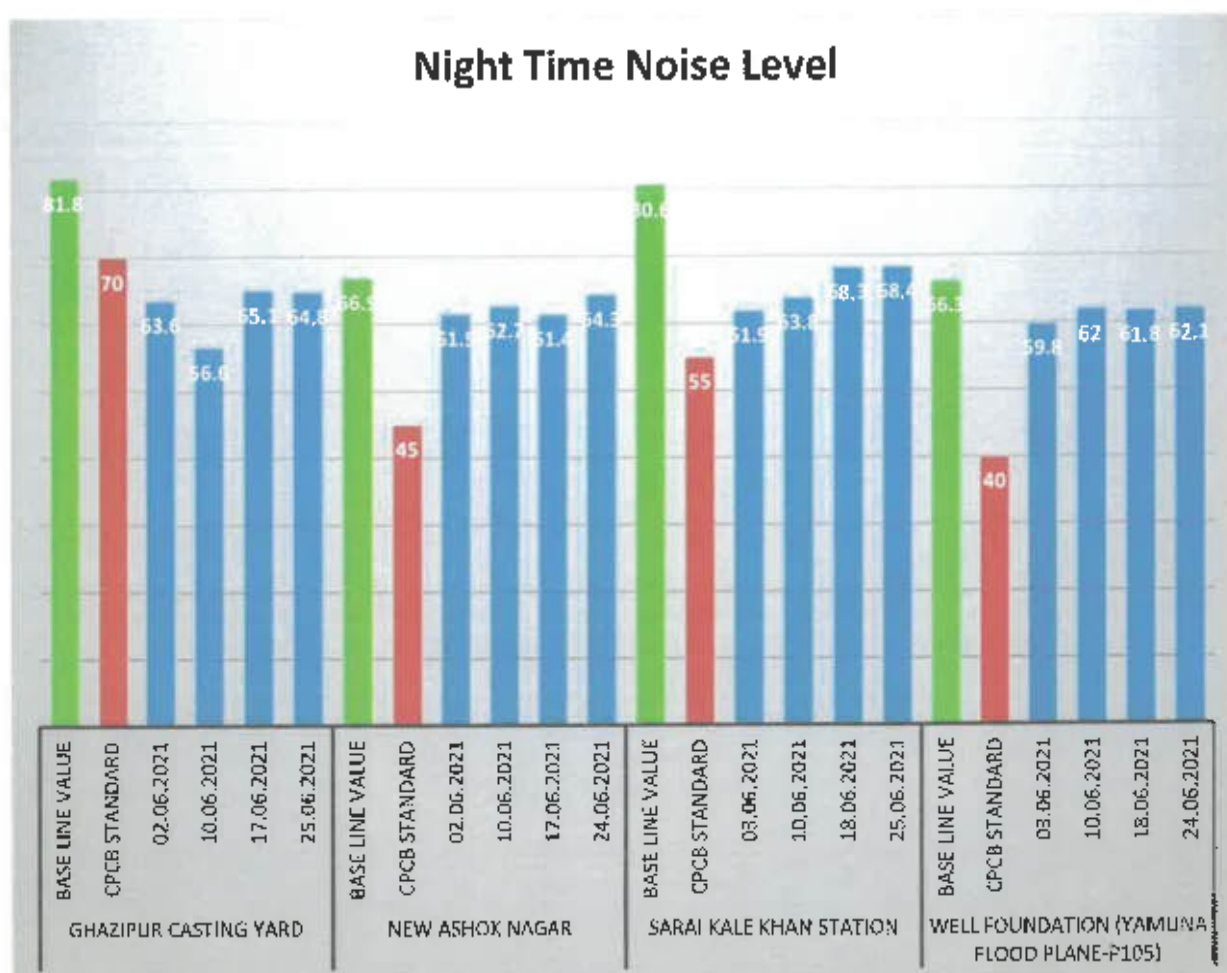


Fig 7: Nighttime Noise level Monitoring



MONTHLY ENVIRONMENT REPORT



Night Time L10, L50, L90, Lmin & Lmax Values

Table 9: Night Time value of L10, L50, L90, Lmin & Lmax

Location	Date	L10	L50	L90	Lmin	Lmax
Ghazipur Casting Yard	02.06.2021	67.5	52.8	51.2	42.8	86.2
	10.06.2021	64.7	58.6	46.1	43.2	88.8
	17.06.2021	72.6	54.7	48.0	44.7	88.2
	25.06.2021	72.5	55.2	48.3	44.6	88.3
New Ashok Nagar	02.06.2021	67.8	55.1	51.4	43.2	86.7
	10.06.2021	65.1	59.2	50.5	42.5	85.9
	17.06.2021	67.2	50.1	47.9	44.9	86.4
	24.06.2021	65.6	58.8	50.2	43.9	88.2
Sarai Kale Khan Station	03.06.2021	65.8	52.3	46.5	42.6	84.6
	10.06.2021	67.1	58.4	47.2	43.0	87.1
	18.06.2021	75.1	56.5	47.0	43.4	92.2
	25.06.2021	75.6	57.2	47.6	43.5	92.2
Well Foundation (Yamuna Flood Plane-P105)	03.06.2021	65.1	48.7	46.0	42.7	78.2
	10.06.2021	65.4	54.8	48.2	43.1	80.5
	18.06.2021	67.3	51.9	49.2	42.4	83.8
	24.06.2021	67.8	52.4	49.7	42.7	83.8

c. Ground water monitoring:

The ground water has been done at two locations, New Ashok nagar station and Ghazipur Casting yard. The parameter wise results enlisted below. Testing report is attached in annexure-IV.

Table 10: Ground water monitoring results

S.No	Test Parameter	Units	Results		IS 10500:2012	
			Ghazipur CY	New Ashok Nagar	Acceptable Limit	Permissible Limit in absence of alternative source
1	Colour	-	BDL(DL-5.0)	BDL(DL-5.0)	5	15
2	Odour	-	Agroccable	Agreeable	Agreeable	Agreeable
3	pH	-	7.62	7.14	6.5-8.5	No relaxation
4	Taste	-	Unagreeable	Agreeable	Agreeable	Agreeable



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5	Turbidity	NTU	BDL (DL-1.0)	BDL (DL-1.0)	1	5
6	Total Dissolve solids	mg/l	2798	588	500	2000
7	Calcium as Ca	mg/l	176.4	96.2	75	200
8	Calcium as Cl	mg/l	1487.2	113.5	250	1000
9	Free Residual Chlorine	mg/l	BDL (DL-0.05)	BDL (DL-0.05)	0.2	1
10	Sulfate as SO ₄	mg/l	386.4	32.5	200	400
11	Total Hardness as CaCO ₃	mg/l	1080	392	200	600
12	Magnesium as Mg	mg/l	155.5	36.9	30	100
13	Fluoride as F	mg/l	0.89	0.32	1.0	1.5
14	Iron as Fe	mg/l	0.48	0.52	1.0	No relaxation
15	Total Alkalinity as CaCO ₃	mg/l	176	240	200	600
16	Total Coliform	MPN/100ml	Absent	Absent	-	Absent



MONTHLY ENVIRONMENT REPORT



AMBIENT AIR, NOISE & DG STACK MONITORING

PHOTOGRAPHIC EVIDENCE

First Week /First Fortnight of June-21



Casting Yard



Sarai Kale Khan



New Ashok Nagar



Well Foundation



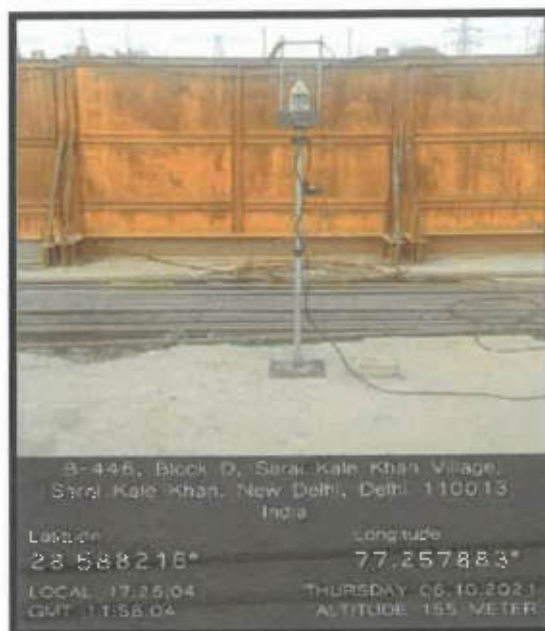
MONTHLY ENVIRONMENT REPORT



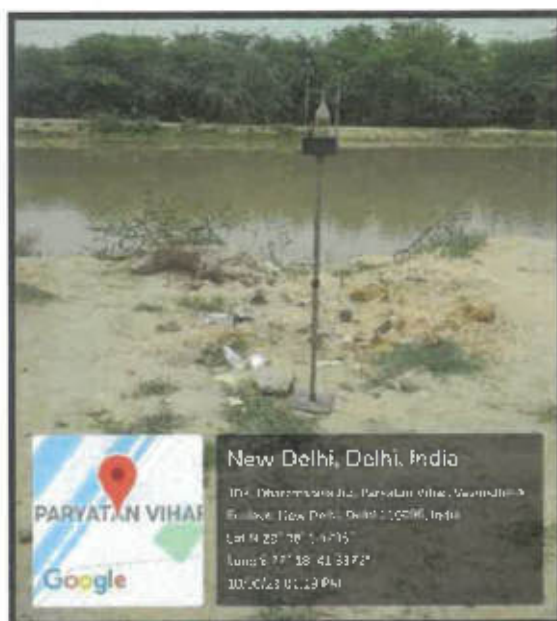
Second Week of June-21



Well Foundation



Sarai Kale Khan



New Ashok Nagar



Ghazipur Casting Yard



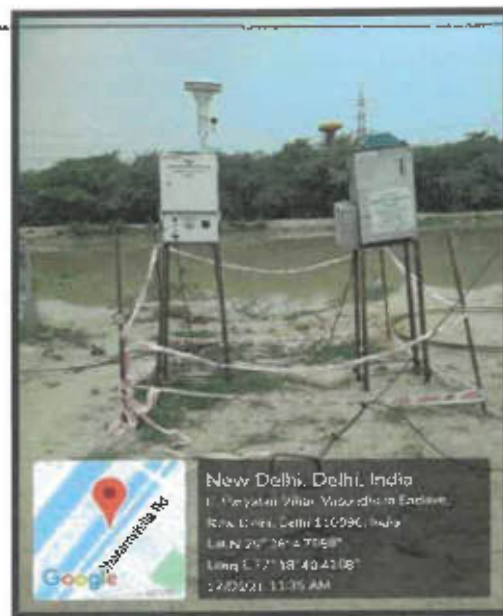
MONTHLY ENVIRONMENT REPORT



3rd Week of June-21/2nd Fortnight



Ghazipur Casting Yard



New Ashok Nagar



Sarai Kale Khan Station



Well Foundation



MONTHLY ENVIRONMENT REPORT



4th Week of June-21



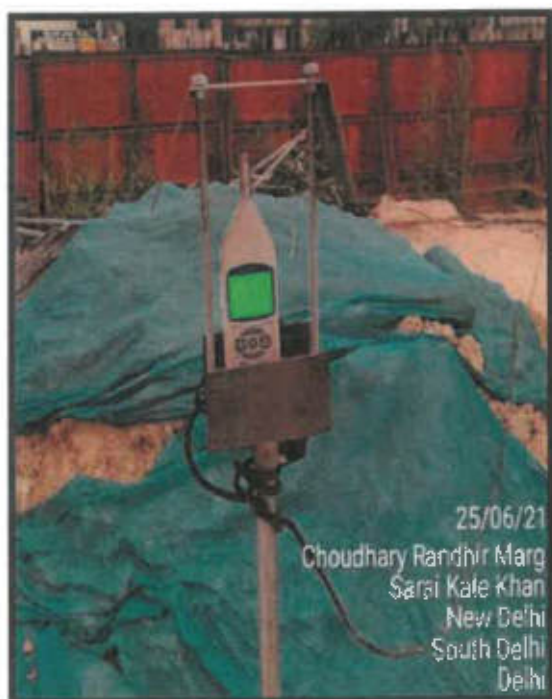
New Ashok Nagar



Well Foundation



Casting Yard



Sarai Kale Khan



MONTHLY ENVIRONMENT REPORT



DG Stack Monitoring



Photo 1: Air, Noise Quality & DG stack Monitoring photographs



MONTHLY ENVIRONMENT REPORT



5. Schedule for Air & Noise Monitoring in upcoming month

Table 11: Schedule for Air & Noise monitoring in upcoming months

Monthly Environment Monitoring Schedule				
S.No.	Date	Environment Monitoring	Locations	Remarks
1	09.07.2021	Air & Noise Monitoring	Well Foundation, New Ashok Nagar, Sarai Kale Khan, Casting Yard	
2	15.07.2021	Noise Monitoring	Well Foundation, New Ashok Nagar, Sarai Kale Khan, Casting Yard	
3	22.07.2021	Air & Noise Monitoring	Well Foundation, New Ashok Nagar, Sarai Kale Khan, Casting Yard	
4	29.07.2021	Noise Monitoring	Well Foundation, New Ashok Nagar, Sarai Kale Khan, Casting Yard	

6. WASTE MANAGEMENT

Table 12: Waste Management

S. No.	Waste Type	Unit	Quantity Generated		Quantity Disposed off		Adopted / Proposed disposal Method
			For the Month:	Till Date	For the Month	Till Date	
1.	Construction Waste & Excavated soil						
	a. Concrete Waste	MT	03	13	03	13	Stored in a separate area and will dispose off.
	b. Demolition Waste	MT	131.25	1373.9	131.25	1373.9	The all C&D waste material is disposed off to IL&FS Shastri Park.
	c. Polymer Mixed Soil	CUM	12,547	29,154.3	12,547	29,154.3	Using Wall grip Brand Polymer only. Backfilling done at SKK station area and Ashok nagar site for pile cap.



MONTHLY ENVIRONMENT REPORT



	d. Good Earth	CUM	6212	10467.58	-	100	The well foundation sand is stored. Pile cap excavated soil reused in new pile cap area preparation.
2. Hazardous Waste							
	a. Wash Oil	Liter	20	35	0	0	
	b. Oil Filters	Nos	06	06	0	0	
	c. Air Filters	Nos	04	04	0	0	
	d. Cartridges etc.	Nos	08	08	0	0	
	e. Used Oil	Liter	230	335	0	0	
	f. Fuel Filter	Nos	11	11	0	0	
	g. Fuel Separator	Nos	06	06	0	0	
3. Recyclable Waste							
	Paper, Plastic, wood, Bottles, rubber etc.	Kg	26	105	26	105	Disposed through authorized recycler.
4. Bio-degradable Waste							
	Food Waste, Vegetable Waste etc.	Kg	19	65	19	65	Disposed at MCD approved vendor.
5.	Metal Scrap	Ton	7	31	0	12	Stored in scrap yard.
6.	E-Waste	Nos/Ton	-	-	-	-	-
7.	Miscellaneous (if any)	Kg	-	-	-	-	

7. Details of Water Consumption

Table 13: Details of Water Consumption

S. No.	Source of Water	Quantity consumed for the month (KL)	Quantity consumed till date (KL)
1	Ground Water Extracted	2840	6780
2	Jal Board Supply	0	0
3	STP Treated Water	430	10900
4	Water Tanker	117.8	559.8
5	Water Bottles	14.6	139.82
6	Dewatered Water	0	0
Total (A)		3402.4	18,389.62
Breakup of Raw Water Consumption Details			



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S. No.	Particular	Quantity consumed for the month (KL)	Quantity consumed till date (KL)
1	Raw Water		
	a. Consumed in RO Plant	5	14.5
	b. Used for Sprinkling	430	9970
	c. Used for wheel washing	0	0
	d. Used for domestic purpose like drinking, toilets, labour camps, office cleaning	132.4	632.32
	e. Curing	188	398
	f. Stone cutting	-	-
	g. TM washing	0	0
	h. Any other use (for polymer tank & makeup water)	890	5267
Total (B)		1645.4	16281.82
2	RO Treated Water		
	a. Used in concrete production	1100	2770
	b. Used for curing	-	90
	c. Used for drinking	-	-
Total (C)		1100	2860
3	RO Rejected Water		
	a. Used in wheel washing	0	0
	b. Used in sprinkling, road cleaning, barricade board washing	657	1269.5
	c. Used in toilet	0	0
	d. Any other purpose	0	0
Total (D)		657	1269.5



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8. Details of Fly Ash consumption

Fly Ash utilized in tones in Building Material and Products for the June'21, details regarding utilization of fly-ash based products in building construction projects:

Table 14: Details of Fly Ash Consumption

S. No.	Building materials or products	Total quantity of building materials or products used	Quantity of fly ash-based products / building materials used	Quantity of conventional building material used non-fly-ash based)	Percentage of fly-ash based building material/ product used against total quantity of building materials or product used	Details of supplier of fly-ash based building materials/ products
1	Bricks, blocks, tiles etc. (To be given in numbers)	-	-	-	-	-
2	Paving blocks, paving tiles, checkers tiles, mosaic tiles, roofing sheets, precast, elements etc. (to be given in numbers)	-	-	-	-	-
3	Cement (To be given in Tons)	3279.22	3279.22	-	42%	Ultratech
4	Cement in Concrete mortar and plaster (to be given in volume as Tons)	-	-	-	-	-



MONTHLY ENVIRONMENT REPORT



9. Raw Material consumption details

Table 15: Details of Raw material Consumption

S. No.	Particular	Unit	Quantity Consumed	
			For the Month	Till Date
1	Concrete	CUM	7441	27,755.4
2	Cement	MT	3279.22	11836.61
3	Sand	MT	5475.89	21211.61
4	Micro Silica	MT	133.47	136.15
5	Aggregate	MT	8119.61	31929.9
6	Reinforcement	MT	643	3247.5
7	Admixture	MT	23.87	86.44
8	Diesel	KL	1,30,865	404,310
9	Electricity	KWh	5661	19829

10. Source of Electricity used at different location

Table 16: Location wise source of electricity

S.No.	Location	Power Connection from Electricity Board	DG Set availability	Remarks
1	Sarai Kale Khan	50 KW LT Connection	40 KVA	DG set used as standby power source
2	New Ashok Nagar	50 KW LT Connection	20 KVA	DG set used as standby power source
3	Kondli	50 KW LT Connection	20 KVA	DG set used as standby power source
4	Ghazipur Casting Yard	300 KW LT Connection application under process	2 nos.250 KVA, 160 KVA, 82.5 KVA	DG set are main power source until power connection
5	Well Foundation	-	40 KVA, 125 KVA	DG set are main power source
6	DND	125 KW HT load sanctioned, waiting for toll land allotment	2 nos.40 KVA	DG set are main power source until power connection
7	P-56	-	40 KVA	DG set are main power source

*All DG set working at site, monitored conducted in this month. Report attached in annexure V.



MONTHLY ENVIRONMENT REPORT



11. Diesel Consumption Record

Table 17: Diesel Consumption Record

S. No	Machinery Name	Diesel Consumption (In litres)
1	HYDRA-01 (HR87F7095)	1400
2	EICHER (UP16ET9210)	930
3	PILING RIG-SANY-235	2200
4	SANY CRAWLER CRANE-45 TON	1500
5	JCB (RJ14 EA 3695)	1880
6	WATER TANKER(HR63C 6526) 35KL	300
7	TMC (IIR73-6931)	1285
8	WATER TRACTOR(UP16AN0870)/ (UP16AD1730)	590
9	HYDRA-04 (IIR13R0883)	1530
10	TRAILER (RJ01 GB 2605)	1140
11	HYDRA-02 (HR87F6187)	1090
12	WATER TANKER(UP16AD1730)/(UP14CT7155)	560
13	TRAILER (HR55N-6778) / (HR46B1514)	1215
14	EICHER (DL1GC2269)	1760
15	HYDRA-06 (HR13R6776)	1575
16	HYDRA-05 (HR13R0289)	1440
17	CRAWLER CRANE 40TON	1760
18	JCB (IIR20AP6593)	1635
19	WATER TANKER (DL1GC2574) 20KL	210
20	TILL CRANE (NL02K 1381)	1720
21	VIBRO HAMMER (FAV416L)	460
22	T.M (RJ19GE3935)	1795
23	MILLER RJ19GE-2776	1670
24	MILLER RJ19GE3937	2000
25	MILLER RJ19GE3944	1383
26	TM MILLER HR38AB-4374 (HR2021TR-3473P)	1854
27	MAN LIFTER DL1LX-2038/ (DL1CS6610)	0
28	MAN LIFTER DL1LAA4305	0
29	JCB-HR51BX-2846	2020
30	Bolero- Camper (UP53DT-9059)	0
31	MILLER-HR38X-7234	1785
32	MILLER NEW (HR38AB1774)	2129
33	Bolero- Camper (PB08DS-2396)	0
34	WATER TANKER HR63D-2782	400
35	HYDRA-HR2021TR9984N	1355



MONTHLY ENVIRONMENT REPORT



36	MILLER-HR38X1475	1721
37	ACE-SA210 PILLING MACHINE(SUNWARD)	2080
38	MILLER - RJ19GE-3946	1365
39	HYDRA-JK02BT0122	840
40	Crawler crane TFC 280-01	1850
41	Crawler crane TFC 280-02	2680
42	CRANE FC01082 (XGC-75TON-02)	2200
43	CRANE FC01079 (XGC-75TON-01)	2800
44	MILLER-HR138X2717	1970
45	NEW EICHER-DL1M7623	450
46	NEW TM MILLER-7295	1880
47	NEW TRAILER-8824	0
48	NEW TMC-UP17AT7323	1400
49	NEW VIBRO HAMMER	600
50	NEW TM MILLER-GJ27TT-2262	890
51	TM MILLER-GJ27TT-2320	905
52	TM MILLER-GJ27X-8509	490
53	TM MILLER-GJ27X-8266	890
54	CRANE XGC75-FC01081	2594
55	TRAILER-7828	0
56	TM MILLER-IIR38AA-3993	1460
57	CRANE XGC75-FC01080	1290
58	TM MILLER-9094/8778V	1870
59	TRAILER-HR55R1673	740
60	WATER TANKER-3028	650
61	JCB-HR26EN-8680	0
62	TM MILLER-9477A	0
63	TM MILLER-3194	0
64	CONCRETE PUMP 1405	0
65	BOOM PLACER DL2021TR-0359B	3990
66	VIBRO MECRO ENGG ICE400	2070
67	CRANE NL02N-9636 150TON	0
68	NEW HYDRA HR2021 TR-5792/8792AA	700
69	TM-PB65BA 7077	950
70	TM-PB65BA 8077	1085
71	TM-PB65BA 6077	870
72	TM-PB65AV 1077	903
73	MAN LIFTER 8530 SWASTIK	300
74	CRANE-150TON NL02N-9636	100



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75	TRAILOR -HR55R1674	230
76	DG 82.5 KVA P&M 9033	0
77	DG 25 KVA P&M 20027	243
78	DG 40 KVA P&M 3804	1212
79	AIR COMPRESSOR 300 CFM	30
80	AIR COMPRESSOR 300 CFM	230
81	DG 125 KVA P&M 22616	3666
82	DG 40 KVA P&M 24051	1292
83	AIR COMPRESSOR 300Cfm	0
84	DG 40 KVA P&M 3764	0
85	DG 250 KVA P&M 24523	8146
86	DG 82.5 KVA P&M 24454	714
87	DG 40 KVA P&M 24455	1422
88	DG 20 KVA P&M 24531 SR-2395	0
89	DG 20 KVA P&M 24456	15
90	CONCRETE PUMP P&M 22264 SP-1800	255
91	DG 40 KVA P&M 24561(96191)	205
92	40 KVA DG P&M 24563 Sr.no -2102 X 2888/97925/843	747
93	40 KVA DG P&M 24560 Sr.no -2102X-2887(new)97916	99
94	250 KVA DG P&M 24567 SET Sr.no -2871(new)	10652
95	JCB LOADER p&m-22068 MH-40CA2308	480
96	DG 20 KVA P&M 24531 (2394)	0
97	NEW COMPRESSOR CFM-300 SR NO.BUAD121114	472
98	NEW COMPRESSOR CFM-300	311
99	NEW COMPRESSOR CFM-300	50
100	NEW COMPRESSOR CFM-300 SR NO.BUBD121157	30
101	JCB LOADER P&M-24536 -3772	2300
102	JCB LOADER p&m-24537 MH-02f 3773	3820
103	DG 160 KVA P&M 4454	6279
104	CONCRETE PUMP P&M 24541	51
105	CONCRETE PUMP P&M 24540	160
106	HYDRA P&M-24547 MH40CA6329	160
107	HYDRA P&M-24548 MH40CA 6783	110
108	DG 82.5 KVA P&M-11898	210
109	HYDRA P&M- 24549	120
	Total	1,30,865 Liters



MONTHLY ENVIRONMENT REPORT



12. Weekly Environment Inspection

The weekly inspections are in practice and record is maintained, attached in Annexure-I).

13. Details of Environment Training Imparted

Table 18: Details of Environment Training

S. No.	Name of Training	Training Place and Date	No. of Persons Trained	Total No. of Training Hours
01	Ambient Air Pollution in Delhi	Ghazipur Casting yard (Date:10.07.2021)	33 Persons	01 Hour
02	Categorization of Noise and their effect on hearing	Ghazipur Casting yard (Date:24.07.2021)	22 Persons	01 Hour

Training Photographs:



Photo 2: Environment Training Photographs

14. Compliance of NCRTC's comments made on previous Monthly Environment Reports

Table.19: NCRTC's comment & their compliance status

S.No.	NCRTC Comment	Compliance Status
1	Submission of monthly Environment report for the month of May,2021 has been reviewed. There is No Objection to the submitted Monthly Environmental report. However, the report shall be improved as per activities taken place every month.	Yes, the report is as per monthly activity and Environment implementation on site.



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15. Water Sprinkling Record

Table 20: Water Sprinkling Record

S. No	Location	Water Sprinkling Timing				Contact Person
		Day Shift (I)	Day Shift (II)	Day Shift (III)	Day Shift (IV)	
1	Casting Yard	08:00-09:00AM	11:00-12:00PM	02:00-03:00 PM	05:00-06:00PM	9688859069
2	New Ashok Nagar	08:00-09:00AM	11:00-12:00PM	02:00-03:00 PM	05:00-06:00PM	7275102022
3	Kondli	08:00-09:00AM	11:00-12:00PM	02:00-03:00 PM	05:00-06:00PM	7275102022
4	Sarai Kale Khan	08:00-09:00AM	11:00-12:00PM	02:00-03:00 PM	05:00-06:00PM	8789452453
5	DND	08:00-09:00AM	11:00-12:00PM	02:00-03:00 PM	05:00-06:00PM	9999204569
6	Well Foundation	08:00-09:00AM	11:00-12:00PM	02:00-03:00 PM	05:00-06:00PM	8770667732

16. Internal Noise Monitoring Record

Table 21: Internal Noise Monitoring Record

Noise Monitoring record				
Day Shift				
Date	Time	Location	Noise Level (dBA)	CPCB Standard (In dBA)
05.06.2021	10:10 AM	Ghazipur Casting Yard	81.6	55
05.06.2021	10:27 AM	Kondli	69.5	55
05.06.2021	10:35 AM	New Ashok Nagar	78.6	55
05.06.2021	10:56 AM	DND	70.6	55
05.06.2021	11:36 AM	Sarai Kale Khan	78.2	65
05.06.2021	11: 59 AM	Well Foundation	68.2	65
Night Shift				
06.06.2021	12: 16 AM	Ghazipur Casting Yard	77.2	45
06.06.2021	12: 29 AM	Kondli	63.5	45
06.06.2021	12:37 AM	New Ashok Nagar	72.2	45
06.06.2021	12: 56 AM	DND	68.8	45
06.06.2021	01: 36 AM	Sarai Kale Khan	73.9	55
06.06.2021	02:12 AM	Well Foundation	63.5	55
Day Shift				
11.06.2021	12: 55 PM	Ghazipur Casting Yard	81.8	55
11.06.2021	01: 16 PM	Kondli	76.9	55
11.06.2021	01:35 PM	New Ashok Nagar	78.2	55
11.06.2021	01: 56 PM	DND	71.9	55
11.06.2021	02: 33 PM	Sarai Kale Khan	82.8	65
11.06.2021	03:09 PM	Well Foundation	66.6	65
Night Shift				



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11.06.2021	10: 11 PM	Ghazipur Casting Yard	78.2	45
11.06.2021	10:35 PM	Kondli	75.2	45
11.06.2021	10:56 PM	New Ashok Nagar	73.2	45
11.06.2021	11:12 PM	DND	69.2	45
11.06.2021	11:31 PM	Sarai Kale Khan	76.2	55
11.06.2021	11:59 PM	Well Foundation	59.9	55
Day Shift				
16.06.2021	03:12 PM	Ghazipur Casting Yard	81.1	55
16.06.2021	03:28 PM	Kondli	78.2	55
16.06.2021	03:39 PM	New Ashok Nagar	79.1	55
16.06.2021	04:05 PM	DND	74.0	55
16.06.2021	04:29 PM	Sarai Kale Khan	79.3	65
16.06.2021	05:02 PM	Well Foundation	69.2	65
Night Shift				
16.06.2021	10:08 PM	Ghazipur Casting Yard	76.2	45
16.06.2021	10:29 PM	Kondli	74.9	45
16.06.2021	10:39 PM	New Ashok Nagar	74.2	45
16.06.2021	11:07 PM	DND	68.0	45
16.06.2021	11:31 PM	Sarai Kale Khan	75.2	55
17.06.2021	12:09 AM	Well Foundation	64.2	55
Day Shift				
26.06.2021	11:52 AM	Ghazipur Casting Yard	88.2	55
26.06.2021	12:12 PM	Kondli	76.2	55
26.06.2021	12:28 PM	New Ashok Nagar	75.2	55
26.06.2021	01:03 PM	DND	79.2	55
26.06.2021	01:22 PM	Sarai Kale Khan	78.6	65
26.06.2021	01:58 PM	Well Foundation	69.2	65
Night Shift				
26.06.2021	10:08 PM	Ghazipur Casting Yard	82.2	45
26.06.2021	10:36 PM	Kondli	72.6	45
26.06.2021	10:52 PM	New Ashok Nagar	71.6	45
26.06.2021	11:49 PM	DND	74.2	45
26.06.2021	11:21 PM	Sarai Kale Khan	76.2	55
27.06.2021	12:36 AM	Well Foundation	66.4	55

17. Environment Sanitation

Every site has a housekeeping team to maintain site cleanliness and better environment.

Activities engaged in environment sanitation.

- Daily cleaning of site office and working locations.
- Water sprinkling on each dry and dusty area.
- Cleaning of accumulated water periodically.
- Dust Bins provided at each over the site.

18. Details of Tree Felling and Plantation Program

The inventory and all trees existing inside our alignment are prepared and submitted to concern forest offices. The proposal included Tree cutting and transplantation. Permission has been received and work in progress. The details of trees enlisted herewith: -



MONTHLY ENVIRONMENT REPORT



Table 22: Tree Felling and Plantation record

S.No.	Name of Forest Division	Total No. Trees	Trees Proposed to Cut	Trees Proposed to Transplant	Trees Saved	Monthly plantation	Cumulative plantation
1	South Forest Division	773	142	583	48	11	14
2	North Forest Division	1218	891	327	-		
Total		1991	1033	910	48		

18.1. Protection and Prevention of tree

Protection of trees procedure includes following steps until their transplantation/cutting: -

a. Mapping & Prescription

Planning has been done to keep trees and construction activities separated from each other. Begin with an initial walk-through to identify which trees to save along with inventory shared by NCRTC. Checked mapping of these trees along with the construction plan. Compromises and adjustments made up front to protect trees are easier, cheaper and more effective at saving trees. Incorporate the exact location of each tree's stem and its critical root area into the construction plan. Determine where construction conflicts will occur. Predict the extent of damage each tree's critical root area will receive. Prescribe how to adjust construction activities to protect tree roots and improve survival.

b. Preconditioning

Remove competition from weeds, vines, and grasses by clipping, not pulling. Spraying with Glyphosate is also effective. Correctly prune and remove all branches that will likely conflict with construction activities. Before construction begins, improve the soil conditions within the protected critical root area.

Watering is very effective in maintaining tree vigor. When trees are damaged and more frequent watering is needed, use a timer to schedule watering and avoid too much watering. Evaluate the herbicides and soil sterilants that will be used near trees.

c. Supervision

Meet with all sub-contractors and site engineers. Express your desire to save trees and review the penalty clause for tree damage. Tell them your expectations, everyone is to leave intact the protective fencing and soil buffers. Assign someone the job of monitoring the fences daily. If any damage occurs immediately repair or mediate the injury.

d. After-Care

One of the most common soil disturbances during construction is soil compaction. Several treatments are available to ameliorate compaction and increase aeration.

1. Maintain and refresh the mulch layer of 4 to 6 inches annually.
2. Use a high-pressure air spade or injector to create holes and fractures in the soil to provide air space. This should be done at least twice a year for several years or until transplantation.
3. Dig trenches one to two feet deep oriented like spokes of a wagon wheel around a tree. Pneumatic air excavators do this well.



MONTHLY ENVIRONMENT REPORT



19. Health and Welfare Activities

- Covid-19 precautions/awareness going on among workers.
- Mask Distribution among workers
- Covid-16 testing of all labour and staff
- Thermal Screening and Pulse Oximeter checkup of each labour and staff on daily basis
- RO water available for workers for drinking.
- Mobile toilets provided at each site.
- ORS Distribution among labours

20. World Environment Day Celebration at site (5th June 2021)

World Environment Day is one of the biggest annual events organised by the United Nations (UN) to generate awareness about the significance of nature and greenery. The United Nations Assembly established World Environment Day in 1972, which was the first day of the Stockholm Conference on the human environment.

In 1974, it was celebrated with the theme 'Only One Earth'. Since then, various host countries have been celebrating it, and the idea for rotating the centre of these activities started. World Environment Day was first observed in 1974 in the US.

The theme for this year:

The theme for World Environment Day 2021 is 'Ecosystem Restoration' and Pakistan will be the global host for the big day. This day will also see the launch of the UN Decade on Ecosystem Restoration. In 2020, the theme was 'Celebrate Biodiversity'.

Afcons Infrastructure has celebrated "World Environment Day" and organized various activities like Plantation at casting yard, Briefing among labours about environment and their importance and Quiz Competition among staff.





MONTHLY ENVIRONMENT REPORT



Photo 3: Snaps of World Environment Day Celebration



MONTHLY ENVIRONMENT REPORT



21. Environment Good Practices



Truck mounted anti-smog gun deployed at Yamuna riverbank site



MONTHLY ENVIRONMENT REPORT



Daily Thermal Screening of labours



Housekeeping Drive all-over the site



Color coded dust bins placed at each site to collect solid waste



MONTHLY ENVIRONMENT REPORT



Regular housekeeping all over the site



Fogging at store, office and site on weekly basis in practice to control mosquito breeding



Disinfection all over site and office



MONTHLY ENVIRONMENT REPORT



Yoga Day Celebration



MONTHLY ENVIRONMENT REPORT



Environment Posters display at site



Environment Policy, Dust Control CPCB guidelines and C&D waste record displayed at site.



MONTHLY ENVIRONMENT REPORT



Special Guidelines at Flood Plain Area displayed



Warning signage near pond displayed



High Noise Area warning displayed near Piling rig machine

Photo 4: Environment Good Practices photographs



MONTHLY ENVIRONMENT REPORT



22. Route Plan from Casting yard to Site (TM travelling route)

Google Maps

Ghazipur Village, Ghazipur, Delhi to New Friends Colony, New Delhi, Delhi

Drive 15.3 km, 20 min

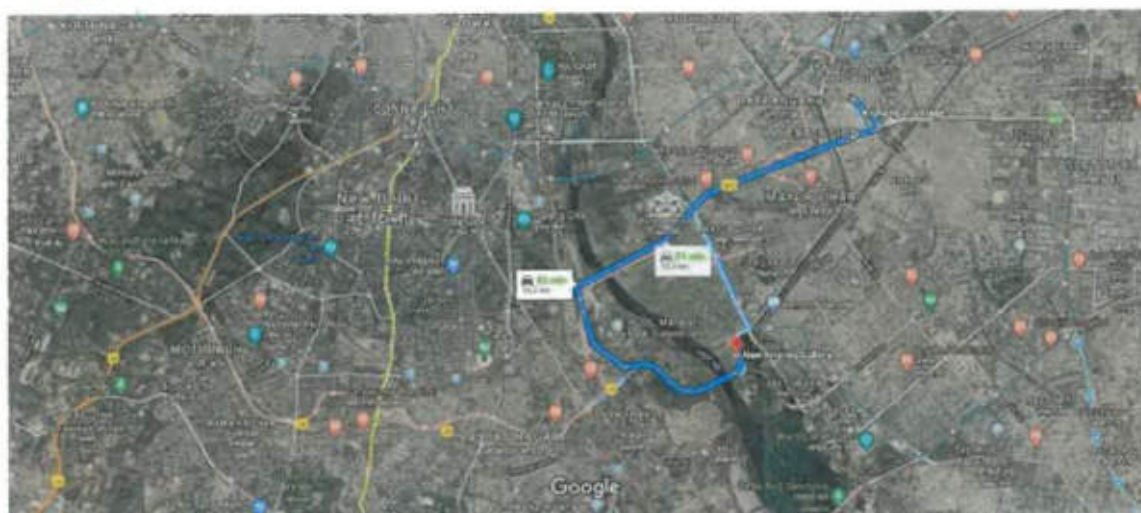


Image © 2021 CNES / Airbus, Landsat / Copernicus, Map data © 2021 1 km

Ghazipur Casting Yard to DND Site

Google Maps

2A.6337016,77.3247122 to Block E, Paryatan Vihar, New Ashok Nagar, New Delhi, Delhi 110096

Drive 6.2 km, 18 min



Image © 2021 CNES / Airbus, Landsat / Copernicus, Map data © 2021 1 km

Ghazipur Casting Yard to New Ashok Nagar area



MONTHLY ENVIRONMENT REPORT



Google Maps

Ghaziपुर Village, Ghaziपुर, Delhi to Choudhary Randhir Marg, Block D, Sarai Kale Khan Village, Sarai Kale Khan, New Delhi, Delhi 110013

Drive 10.9 km, 15 min



Ghaziपुर Casting Yard to Sarai Kale Khan

Google Maps

Choudhary Randhir Marg, Block D, Sarai Kale Khan Village, Sarai Kale Khan, New Delhi, Delhi 110013 to Block E, Paryashan Vihar, New Ashok Nagar, New Delhi, Delhi 110096

Drive 8.7 km, 17 min



Ghaziपुर Casting yard to Well Foundation

Photo.5: Google map photos of Casting yard connecting all working site

- Annexure 1.
- Environmental Monitoring Reports – Ambient Air & Noise Quality Report
- Annexure 2.
- Weekly Environment Inspection Reports
- Annexure 3.
- Monthly Environment Audit Report
- Annexure 4.
- Ground Water Monitoring Report
- Annexure.5
- DG stack monitoring Report

Annexure-1

Environment Monitoring Reports

1st Week Monitoring Results

**ECOSTEPS LABORATORY PRIVATE LIMITED**

(Complete Test House for testing of Environmental Samples)

NABL Accredited and MoEF&CC Approved Laboratory

ISO 9001 : 2015 & OHSAS 18001 Certified

TEST REPORT**Issued to**

M/s AFCONS Infrastructure Ltd
B-156, 1st floor, Near Metro pillar-167
New Ashok Nagar, Delhi-110036

Doc No. : ELPL/IV/QF/20
Amend. No. & Amend. Date : 02 & 17.02.2018
Lab Reference No. : 210604001 A
Issue Date : 09/06/2021
Your Reference : AFCONS/3570/PM/
QSWO-37,
dated-05/02/2021
(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at Sarai Kale Khan, near
ISBT bus stand, Delhi on 03/06/2021-04/06/2021.

Latitude- 28°58'83.03"

Longitude- 77°25'77.61"

Type of sample	: Ambient Air	Sample Registration Date	: 04/06/2021
Sampling Date	: 03/06/2021 to 04/06/2021	Analysis Starting Date	: 05/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 09/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Sarai Kale Khan near ISBT Bus Stand	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	209	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	153.2	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	17.4	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	45.6	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.52	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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Doc No. : ELPL/IV/QF/20
Amend. No. & Amend. Date : 02 & 17.02.2018
Lab Reference No. : 210604003 A
Issue Date : 09/06/2021
Your Reference : AFCONS/3570/PM/
QS/WO-37,
dated-05/02/2021
(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at Well Foundation Site near Yamuna River, Delhi on 03/06/2021-04/06/2021.

Latitude- 28°57'97.31"
Longitude- 77°27'95.87"

Type of sample	: Ambient Air	Sample Registration Date	: 04/06/2021
Sampling Date	: 03/06/2021 to 04/06/2021	Analysis Starting Date	: 05/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 09/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Well Foundation Site near Yamuna River	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	157.9	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	102.5	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	12.7	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	32.6	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.40	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

Authorized Signatory
(Purushottam Kumar Sharma)


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Your Reference
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02 & 17.02.2018
210603005 A
09/06/2021
AFCONS/3570/PM/
QSWO-37,
dated-05/02/2021
(Page 1 of 1)
Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC
Sample Particulars: Ambient Air Quality Monitoring was carried out at New Ashok Nagar, Delhi
on 02/06/2021-03/06/2021.
Latitude- 28°60'09.36"
Longitude- 77°31'14.42"

Type of sample	: Ambient Air	Sample Registration Date	: 03/06/2021
Sampling Date	: 02/06/2021 to 03/06/2021	Analysis Starting Date	: 04/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 09/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: New Ashok Nagar	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	182.2	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	122.4	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	14.2	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	38.4	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.46	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)
Authorized Signatory
(Purushottam Kumar Sharma)
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Doc No. : ELPL/IV/QF/20
Amend. No. & Amend. Date : 02 & 17.02.2018
Lab Reference No. : 210603007 A
Issue Date : 09/06/2021
Your Reference : AFCONS/3570/PM/
QSWO-37,
dated-05/02/2021
(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at Ghazipur Casting Yard, Ghazipur, Delhi on 02/06/2021-03/06/2021.

Latitude- 28°63'34.47"

Longitude- 77°32'37.38"

Type of sample	: Ambient Air	Sample Registration Date	: 03/06/2021
Sampling Date	: 02/06/2021 to 03/06/2021	Analysis Starting Date	: 04/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 09/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Ghazipur Casting Yard	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	198	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	137.6	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	15.8	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	44.6	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.49	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

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(Purushottam Kumar Sharma)

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WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Sarai Kale Khan, near ISBT Bus Stand, Delhi, on
03/06/2021-04/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 04/06/2021
Sampling Date	: 03/06/2021- 04/06/2021	Testing Start Date	: 03/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 04/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Sarai Kale Khan near ISBT Bus stand Latitude- 28°58'83.03" Longitude- 77°25'77.61"	06:00 to 07:00	56.2	45.1	63.7	22:00 to 23:00	60.6	53.2	63.6
		07:00 to 08:00	57.9	46.8	68.2	23:00 to 00:00	65.3	52.6	64.6
		08:00 to 09:00	62.3	47.8	69.3	00:00 to 01:00	65.1	54.3	60.6
		09:00 to 10:00	64.6	52.3	71.3	01:00 to 02:00	63.2	49.6	64.3
		10:00 to 11:00	68.3	53.6	72.6	02:00 to 03:00	61.4	47.2	79.6
		11:00 to 12:00	69.2	54.2	74.6	03:00 to 04:00	60.5	46.3	75.2
		12:00 to 13:00	67.2	56.2	75.8	04:00 to 05:00	56.3	42.6	64.3
		13:00 to 14:00	64.5	52.3	75.8	05:00 to 06:00	58.7	43.6	62.3
		14:00 to 15:00	62.6	51.4	78.3				
		15:00 to 16:00	63.4	56.3	80.6	L ₁₀	65.8		
		16:00 to 17:00	65.6	54.2	82.3	L ₅₀	52.3		
		17:00 to 18:00	64.1	52.7	86.3	L ₉₀	46.5		
		18:00 to 19:00	67.3	52.9	84.2	L _{min}	42.6		
		19:00 to 20:00	68.2	54.6	82.3	L _{max}	84.6		
		20:00 to 21:00	66.2	57.3	80.1	Night Leq	61.9		
		21:00 to 22:00	67.4	52.3	78.3	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀	68.3			Day	75 dB(A)		
		L ₅₀	55.1			Night	70 dB(A)		
		L ₉₀	50.2						
		L _{min}	45.1						
		L _{max}	86.3						
		Day Leq	64.7						

Options/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Vikash Kumar)

Authorized Signatory
(Purushottam Kumar Sharma)

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 WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

 Sample Particulars: Ambient Noise level testing was done at Well Foundation Site near Yamuna River, Delhi, on
 03/06/2021-04/06/2021

Type of sample	Ambient Noise	Sample Registration Date	: 04/06/2021
Sampling Date	03/06/2021 - 04/06/2021	Testing Start Date	: 03/06/2021
Sampling Done by	Lab representative	Testing Completion Date	: 04/06/2021
Quantity received	24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Well Foundation Site near Yamuna River Latitude- 28°57'97.31" Longitude- 77°27'95.87"	06:00 to 07:00	56.5	44.7	67.3	22:00 to 23:00	60.4	54.2	76.9
		07:00 to 08:00	58.2	46.9	72.3	23:00 to 00:00	64.5	53.2	78.2
		08:00 to 09:00	57.2	49.3	70.6	00:00 to 01:00	61.5	52.9	74.2
		09:00 to 10:00	60.3	56.2	75.6	01:00 to 02:00	59.8	51.3	70.3
		10:00 to 11:00	61.8	52.3	78.2	02:00 to 03:00	57.6	50.4	69.9
		11:00 to 12:00	62.8	54.7	77.9	03:00 to 04:00	56.2	47.2	72.3
		12:00 to 13:00	64.6	56.8	80.6	04:00 to 05:00	56.9	48.1	68.3
		13:00 to 14:00	65.3	58.6	82.3	05:00 to 06:00	55.6	42.7	69.4
		14:00 to 15:00	63.2	57	81.4				
		15:00 to 16:00	61.2	59.3	84.6	L ₁₀		65.1	
		16:00 to 17:00	60.3	55.2	84.2	L ₅₀		48.7	
		17:00 to 18:00	65.3	52.3	84.7	L ₉₀		46.0	
		18:00 to 19:00	64.7	54.8	83.6	L _{min}		42.7	
		19:00 to 20:00	63.9	49.6	82.3	L _{max}		78.2	
		20:00 to 21:00	68.3	48.2	78.2	Night Leq		59.8	
		21:00 to 22:00	65.1	50.3	73.6	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀		66.3					
		L ₅₀		54.1					
		L ₉₀		47.6					
		L _{min}		44.7					
		L _{max}		84.7		Day		75 dB(A)	
		Day Leq		62.4		Night		70 dB(A)	

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note:

1. Monitoring area coming under Industrial Zone.

2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

 Analyzed By
 (Vikash Kumar)

 Authorized Signatory
 (Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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AFCONS/3570/PM/QS/

WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at New Ashok Nagar, Delhi, on 02/06/2021-03/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 03/06/2021
Sampling Date	: 02/06/2021- 03/06/2021	Testing Start Date	: 02/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 03/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq								
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)			
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}	
01.	New Ashok Nagar Latitude- 28°60'09.36" Longitude- 77°31'14.42"	06:00 to 07:00	58.6	43.2	68.3	22:00 to 23:00	64.2	42.1	69.3	
		07:00 to 08:00	60.2	46.2	70.3	23:00 to 00:00	62.3	45.3	74.2	
		08:00 to 09:00	64.3	47.2	74.6	00:00 to 01:00	63.7	47.6	75.4	
		09:00 to 10:00	65.7	48.1	78.3	01:00 to 02:00	61.2	48.3	76.8	
		10:00 to 11:00	67.4	48.1	77.1	02:00 to 03:00	60.5	50.6	79.4	
		11:00 to 12:00	69.5	50.3	80.3	03:00 to 04:00	62.1	51.3	82.6	
		12:00 to 13:00	68.2	52.6	81.2	04:00 to 05:00	59.8	49.6	83.4	
		13:00 to 14:00	64.1	47.2	79.6	05:00 to 06:00	58.2	47.1	82.1	
		14:00 to 15:00	63.9	48.9	85.1					
		15:00 to 16:00	63.7	48.2	81.3	L ₁₀		63.9		
		16:00 to 17:00	66.4	49.3	79.2	L ₅₀		51.7		
		17:00 to 18:00	62.5	51.2	85.3	L ₉₀		49.3		
		18:00 to 19:00	65.3	52.2	84.6	L _{min}		42.1		
		19:00 to 20:00	64.9	50.4	86.2	L _{max}		83.4		
		20:00 to 21:00	67.2	51.6	86.7	Night Leq		61.5		
		21:00 to 22:00	67.1	48.6	85.2	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		L ₁₀		67.8		Day		75 dB(A)		
		L ₅₀		55.1		Night		70 dB(A)		
		L ₉₀		51.4						
		L _{min}		43.2						
		L _{max}		86.7						
		Day Leq		64.9						

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note:

1. Monitoring area coming under Industrial Zone.

2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

 Analyzed By
 (Vikash Kumar)

 Authorized Signatory
 (Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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Lab Reference No. : **210603008 N**
Issue Date : **09/06/2021**
Your Reference : **AFCONS/3570/PM/QS/**
WO-37, dated-06/02/2021
(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Ghazipur Casting Yard, Ghazipur, Delhi, on 02/06/2021-03/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 12/06/2021
Sampling Date	: 02/06/2021- 03/06/2021	Testing Start Date	: 02/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 03/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Ghazipur Casting Yard Latitude- 28°33'34.47" Longitude- 77°32'37.38"	06:00 to 07:00	60.1	44.6	68.6	22:00 to 23:00	68.3	50.3	78.3
		07:00 to 08:00	62.8	48.3	69.2	23:00 to 00:00	65.5	52.3	86.2
		08:00 to 09:00	64.5	47.1	75.3	00:00 to 01:00	67.2	54.6	85.2
		09:00 to 10:00	67.3	46.3	74.6	01:00 to 02:00	63.2	50.3	83.2
		10:00 to 11:00	68.2	48.3	78.6	02:00 to 03:00	62.4	48.3	80.1
		11:00 to 12:00	64.3	50.6	79.4	03:00 to 04:00	60.6	45.6	75.6
		12:00 to 13:00	62.3	51.4	83.6	04:00 to 05:00	62.3	43.2	72.6
		13:00 to 14:00	68.3	52.3	87.6	05:00 to 06:00	59.4	42.8	68.2
		14:00 to 15:00	67.9	56.4	88.6				
		15:00 to 16:00	62.3	54.7	82.3	L ₁₀		67.5	
		16:00 to 17:00	68.5	52.6	86.4	L ₅₀		52.8	
		17:00 to 18:00	66.4	54.9	87.1	L ₉₀		51.2	
		18:00 to 19:00	63.8	51.3	83.5	L _{min}		42.8	
		19:00 to 20:00	68.4	50.6	80.5	L _{max}		86.2	
		20:00 to 21:00	69.3	52.6	82.2	Night Leq		63.6	
		21:00 to 22:00	67.5	53.7	86.4	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀		68.5					
		L ₅₀		56.9					
		L ₉₀		52.3					
		L _{min}		44.6					
		L _{max}		88.6		Day		75 dB(A)	
		Day Leq		65.7		Night		70 dB(A)	

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Envirotech Model- SLM 100	Valid up to- 03-09-2021

Analyzed By
(Vikash Kumar)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)
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CIN-U93000DL2014PTC267663

2nd Week Monitoring Results



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: 02 & 17.02.2018

: 210611003 N

: 15/06/2021

: AFCONS/3570/PM/QS/
WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTE

Sample Particulars: Ambient Noise level testing was done at Sarai Kale Khan, near ISBT Bus Stand, Delhi, on 10/06/2021-11/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 11/06/2021
Sampling Date	: 10/06/2021- 11/06/2021	Testing Start Date	: 10/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 11/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq								
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)			
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}	
01.	Sarai Kale Khan near ISBT Bus stand Latitude- 28°35'18.26" Longitude- 77°15'31.35"	06:00 to 07:00	57.3	45.6	65.6	22:00 to 23:00	68.1	53.7	86.1	
		07:00 to 08:00	59.1	47.3	70.2	23:00 to 00:00	66.6	53.1	87.1	
		08:00 to 09:00	63.5	48.3	71.4	00:00 to 01:00	66.4	54.8	83.0	
		09:00 to 10:00	65.9	52.8	73.4	01:00 to 02:00	64.5	50.1	86.8	
		10:00 to 11:00	69.7	54.1	74.8	02:00 to 03:00	62.6	47.7	82.0	
		11:00 to 12:00	70.6	54.7	76.8	03:00 to 04:00	61.7	46.8	77.5	
		12:00 to 13:00	68.5	56.8	78.1	04:00 to 05:00	57.4	43.0	66.2	
		13:00 to 14:00	65.8	52.8	77.9	05:00 to 06:00	57.8	44.0	64.2	
		14:00 to 15:00	63.9	51.9	80.6					
		15:00 to 16:00	64.7	56.9	83.0	L ₁₀		67.1		
		16:00 to 17:00	66.9	54.7	84.8	L ₅₀		58.4		
		17:00 to 18:00	65.4	53.2	83.9	L ₉₀		47.2		
		18:00 to 19:00	68.6	63.4	86.7	L _{min}		43.0		
		19:00 to 20:00	69.6	55.1	84.8	L _{max}		87.1		
		20:00 to 21:00	67.5	57.9	82.5	Night Leq		63.8		
		21:00 to 22:00	68.7	52.8	78.6	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		L ₁₀		72.6						
		L ₅₀		62.8						
		L ₉₀		52.9						
		L _{min}		45.6						
		L _{max}		88.9						
		Day Leq		65.9		Day		75 dB(A)		
						Night		70 dB(A)		

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Priyanka Gupta)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)



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(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Well Foundation Site near Yamuna River, Delhi, on
10/06/2021-11/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 11/06/2021
Sampling Date	: 10/06/2021- 11/06/2021	Testing Start Date	: 10/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 11/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{max}	L _{min}		L _{eq}	L _{max}	L _{min}
01.	Well Foundation Site near Yamuna River Latitude- 26°34'46.62" Longitude- 77°16'46.19"	06:00 to 07:00	57.6	45.1	69.3	22:00 to 23:00	67.7	54.7	79.2
		07:00 to 08:00	59.4	47.4	74.5	23:00 to 00:00	65.8	53.7	80.5
		08:00 to 09:00	58.3	49.8	72.7	00:00 to 01:00	62.7	53.4	76.4
		09:00 to 10:00	61.5	56.8	77.9	01:00 to 02:00	61.0	51.8	72.4
		10:00 to 11:00	63.0	52.8	80.5	02:00 to 03:00	58.8	50.9	72.0
		11:00 to 12:00	64.1	55.2	80.2	03:00 to 04:00	57.3	47.7	74.5
		12:00 to 13:00	65.9	57.4	83.0	04:00 to 05:00	58.0	46.6	70.3
		13:00 to 14:00	66.6	59.2	84.8	05:00 to 06:00	56.7	43.1	71.5
		14:00 to 15:00	64.5	57.6	83.8				
		15:00 to 16:00	62.4	59.9	87.1	L ₁₀		65.4	
		16:00 to 17:00	61.5	55.8	86.7	L ₅₀		54.8	
		17:00 to 18:00	60.6	52.8	87.2	L ₉₀		48.2	
		18:00 to 19:00	66.0	55.3	86.1	L _{min}		43.1	
		19:00 to 20:00	65.2	50.1	84.8	L _{max}		80.5	
		20:00 to 21:00	69.7	48.7	80.5	Night Leq		62.0	
		21:00 to 22:00	66.4	50.8	75.8	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀		67.8					
		L ₅₀		59.3					
		L ₉₀		50.6					
		L _{min}		45.1					
		L _{max}		87.2		Day		75 dB(A)	
		Day Leq		63.7		Night		70 dB(A)	

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Priyanka Gupta)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)



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AFCONS/3570/PM/QS/
WO-37, dated-05/02/2021
(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at New Ashok Nagar, Delhi, on 10/06/2021-11/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 11/06/2021
Sampling Date	: 10/06/2021- 11/06/2021	Testing Start Date	: 10/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 11/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq								
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)			
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}	
01.	New Ashok Nagar Latitude- 28°36'01.56" Longitude- 77°18'37.75"	06:00 to 07:00	59.8	43.6	70.3	22:00 to 23:00	65.5	42.5	71.4	
		07:00 to 08:00	61.4	46.7	72.4	23:00 to 00:00	63.5	45.8	76.4	
		08:00 to 09:00	65.6	47.7	76.8	00:00 to 01:00	65.0	48.1	77.7	
		09:00 to 10:00	67.0	46.6	80.6	01:00 to 02:00	62.4	48.8	79.1	
		10:00 to 11:00	68.7	48.6	79.4	02:00 to 03:00	61.7	51.1	81.8	
		11:00 to 12:00	70.9	50.8	82.7	03:00 to 04:00	63.3	51.8	85.1	
		12:00 to 13:00	69.6	53.1	83.6	04:00 to 05:00	61.0	50.1	85.9	
		13:00 to 14:00	65.4	47.7	82.0	05:00 to 06:00	59.4	47.6	84.6	
		14:00 to 15:00	65.2	47.4	87.7					
		15:00 to 16:00	65.0	48.7	83.7	L ₁₀	65.1			
		16:00 to 17:00	67.7	49.8	81.6	L ₅₀	59.2			
		17:00 to 18:00	63.8	51.7	87.9	L ₉₀	50.5			
		18:00 to 19:00	66.6	52.7	87.1	L _{min}	42.5			
		19:00 to 20:00	66.2	50.9	88.8	L _{max}	85.9			
		20:00 to 21:00	68.5	52.1	89.3	Night Leq	62.7			
		21:00 to 22:00	68.4	49.1	87.8	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		L ₁₀		69.2						
		L ₅₀		61.4						
		L ₉₀		52.6						
		L _{min}		43.6						
		L _{max}		89.3						
		Day Leq		66.2	Day	75 dB(A)				
					Night	70 dB(A)				

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Lev Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note:

1. Monitoring area coming under Industrial Zone.

2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Priyanka Gupta)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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: 210611002 N

: 15/06/2021

 : AFCONS/3570/PM/QS/
 WO-37, dated-05/02/2021
 (Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Ghazipur Casting Yard, Ghazipur, Delhi, on 10/06/2021-11/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 11/06/2021
Sampling Date	: 10/06/2021- 11/06/2021	Testing Start Date	: 10/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 11/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Ghazipur Casting Yard Latitude- 28°37'59.50" Longitude- 77°19'27.52"	06:00 to 07:00	61.3	45.0	70.7	22:00 to 23:00	66.8	52.8	88.8
		07:00 to 08:00	64.1	48.8	71.3	23:00 to 00:00	60.5	55.1	87.8
		08:00 to 09:00	65.8	47.6	77.6	00:00 to 01:00	64.5	50.8	85.7
		09:00 to 10:00	68.6	46.8	76.8	01:00 to 02:00	63.6	48.8	82.5
		10:00 to 11:00	69.6	48.8	81.0	02:00 to 03:00	61.8	46.1	77.9
		11:00 to 12:00	65.6	51.1	81.8	03:00 to 04:00	63.5	43.6	74.8
		12:00 to 13:00	63.5	51.9	86.1	04:00 to 05:00	60.6	43.2	70.2
		13:00 to 14:00	69.7	52.8	90.2	05:00 to 06:00	66.8	52.8	88.8
		14:00 to 15:00	69.3	57.0	91.3				
		15:00 to 16:00	63.5	55.2	84.8	L ₁₀		64.7	
		16:00 to 17:00	69.9	53.1	89.0	L ₅₀		58.8	
		17:00 to 18:00	67.7	55.4	89.7	L ₉₀		46.1	
		18:00 to 19:00	65.1	51.8	86.0	L _{min}		43.2	
		19:00 to 20:00	69.8	51.1	82.9	L _{max}		88.8	
		20:00 to 21:00	70.7	53.1	84.7	Night Leq		56.6	
		21:00 to 22:00	68.9	54.2	89.0	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀		69.8					
		L ₅₀		61.2					
		L ₉₀		50.4					
		L _{min}		45.0					
		L _{max}		91.3		Day		75 dB(A)	
		Day Leq		67.3		Night		70 dB(A)	

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time was within the standard limits as per Ambient Noise Level Standards & for Night Time above the standard Limit.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note:

1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Priyanka Gupta)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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3rd Week Monitoring Results


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 Your Reference : AFCONS/3570/PM/
 QS/NO-37,
 dated-05/02/2021
 (Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at New Ashok Nagar, Delhi on 17/06/2021-18/06/2021.

Latitude- 28°36'47.56"
 Longitude- 77°18'40.46"

Type of sample	: Ambient Air	Sample Registration Date	: 19/06/2021
Sampling Date	: 17/06/2021 to 18/06/2021	Analysis Starting Date	: 19/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 23/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: New Ashok Nagar	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	198	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	137.4	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	15.1	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	42.4	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.49	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
 (Vikash Kumar)

Checked By
 (Dr. Ramesh C. Tripathi)

Authorized Signatory
 (Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at Ghazipur Casting Yard,
Ghazipur, Delhi on 17/06/2021-18/06/2021.

Latitude- 28°38'76.64"

Longitude- 77°19'26.04"

Type of sample	: Ambient Air	Sample Registration Date	: 19/06/2021
Sampling Date	: 17/06/2021 to 18/06/2021	Analysis Starting Date	: 19/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 23/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Ghazipur Casting Yard	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	207	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	144.2	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	16.0	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	48.3	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.52	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

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Issued to

M/s AFCONS Infrastructure Ltd
B-156, 1st floor, Near Metro pillar-167
New Ashok Nagar, Delhi-110036

Doc No.

Amend. No. & Amend. Date

Lab Reference No.

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ELPL/IV/QF/20

02 & 17.02.2018

210619007 A

24/06/2021

AFCONS/3570/PM/

QS/WO-37,

dated-05/02/2021

(Page1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at Sarai Kale Khan, near
ISBT bus stand, Delhi on 18/06/2021-19/06/2021.

Latitude- 28°58'81.86"

Longitude- 77°25'75.47"

Type of sample	: Ambient Air	Sample Registration Date	: 19/06/2021
Sampling Date	: 18/06/2021 to 19/06/2021	Analysis Starting Date	: 19/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 23/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Sarai Kale Khan near ISBT Bus Stand	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	217	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	145.6	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	16.5	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	50.2	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.54	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

Email: bd@ecostepslab.com | www.ecostepslab.com | Ph.: +91 120 4333226, 9958149985

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QSAWO-37,
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(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Air Quality Monitoring was carried out at Well Foundation Site near Yamuna River, Delhi on 18/06/2021-19/06/2021.

Latitude- 28°57'88.04"
Longitude- 77°27'84.08"

Type of sample	: Ambient Air	Sample Registration Date	: 19/06/2021
Sampling Date	: 18/06/2021 to 19/06/2021	Analysis Starting Date	: 19/06/2021
Sampling Done by	: Lab representative	Analysis Completion Date	: 23/06/2021
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Well Foundation Site near Yamuna River	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	166	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	112.5	060 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	13.2	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	34.8	080 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.42	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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(Page of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Sarai Kale Khan, near ISBT Bus Stand, Delhi, on 18/06/2021-19/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 19/06/2021
Sampling Date	: 18/06/2021- 19/06/2021	Testing Start Date	: 18/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 19/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq								
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)			
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}	
01.	Sarai Kale Khan near ISBT Bus stand Latitude- 28°58'81.86" Longitude- 77°25'75.47",	06:00 to 07:00	60.2	47.2	75.3	22:00 to 23:00	75.6	54.4	89.8	
		07:00 to 08:00	67.1	49.1	81.0	23:00 to 00:00	75.0	56.8	92.2	
		08:00 to 09:00	70.3	53.3	83.7	00:00 to 01:00	72.2	53.5	88.3	
		09:00 to 10:00	74.2	54.1	88.8	01:00 to 02:00	69.1	52.2	86.0	
		10:00 to 11:00	76.4	55.4	92.0	02:00 to 03:00	65.1	48.4	81.5	
		11:00 to 12:00	72.0	51.7	87.1	03:00 to 04:00	64.6	45.3	82.4	
		12:00 to 13:00	73.1	54.2	90.7	04:00 to 05:00	64.2	44.2	79.2	
		13:00 to 14:00	75.6	57.1	92.3	05:00 to 06:00	60.4	43.4	82.2	
		14:00 to 15:00	72.2	52.2	89.0					
		15:00 to 16:00	69.1	51.3	92.4	L ₁₀	75.1			
		16:00 to 17:00	74.3	57.6	84.5	L ₅₀	56.5			
		17:00 to 18:00	67.2	50.2	88.1	L ₉₀	47.0			
		18:00 to 19:00	71.8	53.9	91.6	L _{min}	43.4			
		19:00 to 20:00	72.3	53.7	92.0	L _{max}	92.2			
		20:00 to 21:00	75.3	49.8	87.1	Night Leq	68.3			
		21:00 to 22:00	71.7	58.0	86.9	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		L ₁₀	77.1							
		L ₅₀	58.7							
		L ₉₀	50.5							
		L _{min}	47.2							
		L _{max}	92.4							
		Day Leq	71.4			Day	75 dB(A)			
						Night	70 dB(A)			

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

Laboratory: D-79, Ground Floor, Sector-6, Noida-201301, Uttar Pradesh (India)

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 New Ashok Nagar, Delhi-110036

 Doc No. : ELPL/IV/QF/20
 Amend. No. & Amend. Date : 02 & 17.02.2018
 Lab Reference No. : 210619010-N
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 Your Reference : AFCONS/3570/PM/QS/
 WO-37, dated-05/02/2021
 (Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-8, New Delhi for NCRTC

Sample Particulars. Ambient Noise level testing was done at Well Foundation Site near Yamuna River, Delhi, on 18/06/2021-19/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 19/06/2021
Sampling Date	: 18/06/2021- 19/06/2021	Testing Start Date	: 18/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 19/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Well Foundation Site near Yamuna River Latitude- 28°57'88.04" Longitude- 77°27'84.08"	06:00 to 07:00	54.3	45.5	69.9	22:00 to 23:00	69.7	53.5	82.9
		07:00 to 08:00	57.5	47.9	71.5	23:00 to 00:00	66.5	49.7	80.7
		08:00 to 09:00	60.9	48.0	78.9	00:00 to 01:00	65.2	51.2	83.8
		09:00 to 10:00	64.1	51.5	82.2	01:00 to 02:00	62.6	49.2	78.1
		10:00 to 11:00	68.9	49.7	83.7	02:00 to 03:00	60.1	46.8	76.2
		11:00 to 12:00	63.7	48.4	79.6	03:00 to 04:00	59.1	49.7	78.1
		12:00 to 13:00	65.2	52.3	82.7	04:00 to 05:00	57.5	45.2	72.9
		13:00 to 14:00	69.9	53.4	84.3	05:00 to 06:00	53.9	42.4	73.4
		14:00 to 15:00	65.4	49.5	79.5				
		15:00 to 16:00	68.9	52.5	85.0	L ₁₀		67.3	
		16:00 to 17:00	68.6	54.7	87.4	L ₅₀		51.9	
		17:00 to 18:00	72.5	53.1	89.3	L ₉₀		49.2	
		18:00 to 19:00	67.1	49.7	78.2	L _{min}		42.4	
		19:00 to 20:00	68.7	52.6	86.1	L _{max}		83.8	
		20:00 to 21:00	66.9	53.4	82.0	Night Leq		61.8	
		21:00 to 22:00	68.5	54.9	78.9	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀		69.2					
		L ₅₀		58.6					
		L ₉₀		52.7					
		L _{min}		45.5					
		L _{max}		89.3			Day		75 dB(A)
		Day Leq		65.6			Night		70 dB(A)

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise proscribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

 Note: 1. Monitoring area coming under Industrial Zone.
 2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

 Analyzed By
 (Vikash Kumar)

 Checked By
 (Dr. Ramesh C. Tripathi)

 Authorized Signatory
 (Purushottam Kumar Sharma)



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TEST REPORT

Issued to

M/s AFCONS Infrastructure Ltd
B-156, 1st floor, Near Metro pillar-167
New Ashok Nagar, Delhi-110036

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02 & 17.02.2018

210618004 N

24/06/2021

AFCONS/3570/PM/QS/

WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at New Ashok Nagar, Delhi, on 17/06/2021-18/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 19/06/2021
Sampling Date	: 17/06/2021- 18/06/2021	Testing Start Date	: 17/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 18/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq								
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)			
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}	
01.	New Ashok Nagar Latitude- 28°36'47.56" Longitude- 77°18'40.46"	06:00 to 07:00	52.5	46.4	73.4	22:00 to 23:00	69.8	49.6	84.8	
		07:00 to 08:00	55.3	46.7	77.9	23:00 to 00:00	68.5	51.5	82.5	
		08:00 to 09:00	61.0	49.9	82.4	00:00 to 01:00	63.4	48.4	86.4	
		09:00 to 10:00	68.4	51.6	85.4	01:00 to 02:00	64.3	47.8	79.1	
		10:00 to 11:00	76.5	53.7	91.5	02:00 to 03:00	60.7	48.0	76.8	
		11:00 to 12:00	73.4	54.0	92.0	03:00 to 04:00	58.2	45.4	78.4	
		12:00 to 13:00	67.4	52.7	89.2	04:00 to 05:00	55.5	44.9	72.0	
		13:00 to 14:00	69.2	53.3	83.3	05:00 to 06:00	52.6	47.7	73.5	
		14:00 to 15:00	72.1	52.4	92.0					
		15:00 to 16:00	66.8	48.1	79.4	L ₁₀		67.2		
		16:00 to 17:00	65.0	47.8	81.9	L ₅₀		50.1		
		17:00 to 18:00	72.1	58.4	93.7	L ₉₀		47.9		
		18:00 to 19:00	63.2	51.4	79.9	L _{min}		44.9		
		19:00 to 20:00	74.3	55.6	88.2	L _{max}		86.4		
		20:00 to 21:00	65.2	49.3	77.5	Night Leq		61.4		
		21:00 to 22:00	68.7	50.9	81.7	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		L ₁₀		73.2						
		L ₅₀		54.8						
		L ₉₀		52.0						
		L _{min}		46.4						
		L _{max}		93.7		Day		75 dB(A)		
		Day Leq		66.9		Night		70 dB(A)		

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)



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AFCONS/3570/PM/QS/
WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NORTC

Sample Particulars: Ambient Noise level testing was done at Ghazipur Casting Yard, Ghazipur, Delhi, on 17/06/2021-18/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 19/06/2021
Sampling Date	: 17/06/2021- 18/06/2021	Testing Start Date	: 17/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 18/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Ghazipur Casting Yard Latitude- 28°38'76.64" Longitude- 77°19'26.04"	06:00 to 07:00	56.5	49.2	78.2	22:00 to 23:00	71.5	54.6	84.7
		07:00 to 08:00	59.8	47.6	75.5	23:00 to 00:00	73.9	51.7	88.2
		08:00 to 09:00	63.5	51.8	84.0	00:00 to 01:00	65.8	53.2	81.4
		09:00 to 10:00	68.4	46.6	88.1	01:00 to 02:00	62.7	50.9	78.9
		10:00 to 11:00	75.2	53.4	87.0	02:00 to 03:00	64.9	48.5	75.4
		11:00 to 12:00	73.0	54.5	81.4	03:00 to 04:00	62.3	45.6	72.6
		12:00 to 13:00	73.1	56.0	84.6	04:00 to 05:00	61.6	44.7	76.1
		13:00 to 14:00	68.4	52.7	83.4	05:00 to 06:00	58.4	46.2	70.9
		14:00 to 15:00	71.6	58.1	88.4				
		15:00 to 16:00	69.2	53.2	84.1	L ₁₀	72.6		
		16:00 to 17:00	65.8	51.4	89.3	L ₅₀	54.7		
		17:00 to 18:00	72.4	57.0	92.1	L ₉₀	48.0		
		18:00 to 19:00	76.2	62.3	83.5	L _{min}	44.7		
		19:00 to 20:00	70.8	58.1	87.9	L _{max}	88.2		
		20:00 to 21:00	71.1	50.2	86.2	Night Leq	65.1		
		21:00 to 22:00	70.6	47.0	83.3	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀	74.0						
		L ₅₀	58.6						
		L ₉₀	51.3						
		L _{min}	46.6						
		L _{max}	92.1			Day	75 dB(A)		
		Day Leq	69.1			Night	70 dB(A)		

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Envirotech Model- SLM 100	Valid up to- 03-09-2021

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

4th Week Monitoring Results



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: 02 & 17.02.2018

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: 29/06/2021

: AFCONS/3570/PM/QS/

WO-37, dated-05/02/2021

(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at New Ashok Nagar, Delhi, on 24/06/2021-25/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 25/06/2021
Sampling Date	: 24/06/2021- 25/06/2021	Testing Start Date	: 24/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 25/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	New Ashok Nagar Latitude- 28°50'08.98" Longitude- 77°31'12.42"	06:00 to 07:00	61.7	44.1	69.9	22:00 to 23:00	68.9	49.6	86.5
		07:00 to 08:00	64.5	46.7	73.3	23:00 to 00:00	67.8	52.3	88.2
		08:00 to 09:00	63.8	48.9	78.6	00:00 to 01:00	66.9	51.3	84.2
		09:00 to 10:00	68.4	49.6	82.3	01:00 to 02:00	65.3	50.7	80.6
		10:00 to 11:00	69.7	50.2	85.6	02:00 to 03:00	63.2	49.5	82.4
		11:00 to 12:00	72.3	50.8	83.4	03:00 to 04:00	62.4	46.7	79.9
		12:00 to 13:00	66.5	54.2	87.2	04:00 to 05:00	60.2	43.9	75.6
		13:00 to 14:00	68.2	49.8	88.3	05:00 to 06:00	59.5	47.9	79.1
		14:00 to 15:00	63.7	53.3	89.3				
		15:00 to 16:00	65.6	52.4	84.7	L ₁₀	65.6		
		16:00 to 17:00	64.8	51.4	85.6	L ₅₀	58.8		
		17:00 to 18:00	68.9	50.2	88.9	L ₉₀	50.2		
		18:00 to 19:00	69.3	49.9	89.2	L _{min}	43.9		
		19:00 to 20:00	65.5	52.2	87.2	L _{max}	88.2		
		20:00 to 21:00	69.7	51.7	90.2	Night Leq	64.3		
		21:00 to 22:00	67.7	48.8	87.8	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀	68.7						
		L ₅₀	61.1						
		L ₉₀	52.2						
		L _{min}	44.1						
		L _{max}	90.2			Day	75 dB(A)		
		Day Leq	68.9			Night	70 dB(A)		

Options/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Luv Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 08:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Vikash Kumar)

Authorized Signatory
(Purushottam Kumar Sharma)

ISO 9001 : 2015 & OHSAS 18001 Certified

Issued to

M/s AFCONS Infrastructure Ltd
B-156, 1st floor, Near Metro pillar-167
New Ashok Nagar, Delhi-110036

Doc No. : ELPL/IV/QF/20
Amend. No. & Amend. Date : 02 & 17.02.2018
Lab Reference No. : 210625006 N
Issue Date : 29/08/2021
Your Reference : AFCONS/3570/PM/QS/
WO-37, dated-05/02/2021
CRTC (Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Well Foundation Site near Yamuna River, Delhi, on 24/08/2021-25/08/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 25/06/2021
Sampling Date	: 24/06/2021- 25/06/2021	Testing Start Date	: 24/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 25/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/II/SQP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq								
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)			
			L _{eq}	L _{max}	L _{min}		L _{eq}	L _{max}	L _{min}	
01.	Well Foundation Site near Yamuna River Latitude- 28°57'96.83" Longitude- 77°27'94.85"	06:00 to 07:00	54.3	45.8	69.9	22:00 to 23:00	69.9	53.5	82.9	
		07:00 to 08:00	57.8	47.9	72.2	23:00 to 00:00	67.2	49.8	80.5	
		08:00 to 09:00	60.8	48.8	78.7	00:00 to 01:00	65.9	51.8	83.8	
		09:00 to 10:00	64.5	51.7	81.0	01:00 to 02:00	63.3	48.5	78.4	
		10:00 to 11:00	68.9	49.5	83.8	02:00 to 03:00	62.1	46.3	75.8	
		11:00 to 12:00	63.8	50.2	80.9	03:00 to 04:00	58.0	49.0	78.6	
		12:00 to 13:00	65.7	52.7	84.1	04:00 to 05:00	57.3	44.8	72.2	
		13:00 to 14:00	69.9	53.6	85.6	05:00 to 06:00	53.2	42.7	73.7	
		14:00 to 15:00	64.5	49.9	82.3					
		15:00 to 16:00	68.8	52.5	85.6	L ₁₀		67.8		
		16:00 to 17:00	69.9	54.7	87.9	L ₅₀		52.4		
		17:00 to 18:00	73.2	53.2	89.7	L ₉₀		49.7		
		18:00 to 19:00	68.4	49.5	78.9	L _{min}		42.7		
		19:00 to 20:00	69.5	52.5	88.6	L _{max}		83.8		
		20:00 to 21:00	67.8	53.6	82.8	Night Leq		62.1		
		21:00 to 22:00	68.9	54.9	78.1	Limits in dB(A) Leq as per THE NOISE POLLUTION REGULATION AND CONTROL RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		L ₁₀		69.8						
		L ₅₀		59.0						
		L ₉₀		53.3						
		L _{min}		45.8						
		L _{max}		89.7	Day	75 dB(A)				
Day Leq		66.0	Night	70 dB(A)						

Opinions/Interpretations: The observed values for LeqdB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone,
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used Sound Level Meter	Make & Model Make-Lutron, Model- SL-4033SD	Calibration Status Valid up to- 23-09-2021
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Analyzed By
(Vikash Kumar)

Authorized Signatory
(Purushottam Kumar Sharma)

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TEST REPORT

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Doc No.

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M/s AFCONS Infrastructure Ltd

Lab Reference No.

: 210626001 N

 B-156, 1st floor, Near Metro pillar-167

Issue Date

: 29/06/2021

New Ashok Nagar, Delhi-110036

Your Reference

 : AFCONS/3570/PM/QS/
WO-37, dated-05/02/2021

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NRTC

(Page 1 of 1)

 Sample Particulars: Ambient/Noise level testing was done at Sarai Kale Khan, near ISBT Bus Stand, Delhi, on
25/06/2021-26/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 26/06/2021
Sampling Date	: 25/06/2021- 26/06/2021	Testing Start Date	: 25/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 26/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPLIIV/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Sarai Kale Khan near ISBT Bus stand Latitude- 28°58'79.12" Longitude- 77°25'71.75"	06:00 to 07:00	64.2	47.6	75.3	22:00 to 23:00	76.2	54.2	89.2
		07:00 to 08:00	67.1	49.6	81.9	23:00 to 00:00	74.5	56.0	92.2
		08:00 to 09:00	73.0	53.1	84.5	00:00 to 01:00	72.3	53.8	87.0
		09:00 to 10:00	75.3	54.5	88.1	01:00 to 02:00	68.0	51.9	86.4
		10:00 to 11:00	77.2	56.4	92.2	02:00 to 03:00	65.5	48.7	81.2
		11:00 to 12:00	70.9	51.2	87.5	03:00 to 04:00	65.6	45.0	81.6
		12:00 to 13:00	73.1	54.0	90.2	04:00 to 05:00	64.0	44.2	77.2
		13:00 to 14:00	76.4	57.3	94.4	05:00 to 06:00	61.4	43.5	80.3
		14:00 to 15:00	72.3	50.2	88.0				
		15:00 to 16:00	68.7	52.1	93.3	L ₁₀		75.6	
		16:00 to 17:00	75.4	57.2	84.1	L ₅₀		57.2	
		17:00 to 18:00	67.2	50.0	86.2	L ₉₀		47.8	
		18:00 to 19:00	72.2	54.3	90.4	L _{min}		43.5	
		19:00 to 20:00	73.3	51.1	92.1	L _{max}		92.2	
		20:00 to 21:00	77.0	49.2	87.8	Night Leq		68.4	
		21:00 to 22:00	70.6	55.4	87.6	Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₁₀		77.9					
		L ₅₀		60.3					
		L ₉₀		51.4					
		L _{min}		47.5					
		L _{max}		94.4					
		Day Leq		72.1		Day		75 dB(A)	
						Night		70 dB(A)	

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time & Night Time was within the standard limits as per Ambient Noise Level Standards.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note:

1. Monitoring area coming under Industrial Zone.

2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

 Analyzed By
(Vikash Kumar)

 Authorized Signatory
(Purushottam Kumar Sharma)

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TEST REPORT

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WO-37, dated-05/02/2021
(Page 1 of 1)

Project: DM/CN/COR-OF/095 Package-6, New Delhi for NCRTC

Sample Particulars: Ambient Noise level testing was done at Ghazipur Casting Yard, Ghazipur, Delhi, on 25/06/2021-26/06/2021.

Type of sample	: Ambient Noise	Sample Registration Date	: 26/06/2021
Sampling Date	: 25/06/2021- 26/06/2021.	Testing Start Date	: 25/06/2021
Sampling Done by	: Lab representative	Testing Completion Date	: 26/06/2021
Quantity received	: 24 Hourly Sample	Sampling Method	: ELPL/III/SOP/37

Sr. No	Location	Noise Level Testing Results in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			L _{eq}	L _{min}	L _{max}		L _{eq}	L _{min}	L _{max}
01.	Ghazipur Casting Yard Latitude- 28°63'36.65" Longitude- 77°32'37.30"	06:00 to 07:00	52.5	49.5	78.6	22:00 to 23:00	72.6	53.3	88.3
		07:00 to 08:00	59.2	47.3	75.9	23:00 to 00:00	73.5	51.8	88.2
		08:00 to 09:00	63.4	51.0	84.1	00:00 to 01:00	66.3	52.7	82.9
		09:00 to 10:00	66.3	46.8	88.4	01:00 to 02:00	63.4	50.6	78.7
		10:00 to 11:00	75.2	53.5	87.2	02:00 to 03:00	64.8	48.8	74.6
		11:00 to 12:00	73.0	54.0	82.5	03:00 to 04:00	60.1	45.8	72.7
		12:00 to 13:00	72.6	56.4	85.6	04:00 to 05:00	61.2	44.6	76.2
		13:00 to 14:00	68.2	52.1	83.3	05:00 to 06:00	57.6	46.7	70.7
		14:00 to 15:00	72.0	58.0	88.9				
		15:00 to 16:00	69.2	53.2	84.2	L _{eq}		72.5	
		16:00 to 17:00	66.4	51.4	90.1	L _{eq}		55.2	
		17:00 to 18:00	72.8	57.7	92.1	L _{eq}		48.3	
		18:00 to 19:00	76.0	52.3	84.6	L _{min}		44.6	
		19:00 to 20:00	71.7	58.1	88.0	L _{max}		88.3	
		20:00 to 21:00	71.2	50.2	85.7	Night Leq		64.8	
		21:00 to 22:00	73.0	47.9	83.2				
		L _{eq}		74.6		Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (Sec rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L _{eq}		59.2					
		L _{eq}		51.7					
		L _{min}		46.9					
		L _{max}		92.1					
		Day Leq		69.0		Day		75 dB(A)	
						Night		70 dB(A)	

Opinions/Interpretations: The observed values for Leq dB(A) for Day Time was within the standard limits as per Ambient Noise Level Standards & for Night Time above the standard Limit.

In respect of Noise prescribed in The Noise Pollution (Regulation & Control) Rules 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
2. Day Time- 06:00 Hrs. to 22:00Hrs. and Night Time- 22:00Hrs. to 06:00Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make-Lutron, Model- SL-4033SD	Valid up to- 23-09-2021

Analyzed By
(Vikash Kumar)

Authorized Signatory
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