

CPP/SEIAA/028/2023-056

May 30, 2023.

To,
**The State Environment Impact Assessment Authority,
(SEIAA), Odisha
Qtr. No. 5RF-2/1, Unit – IX,
Bhubaneswar – 751022**

Sub: Submission of Six-Monthly Compliance Report of the Environmental Clearance of (2x27MW) Captive Power Plant of M/s Dalmia Cement (Bharat) Limited, At- Rajgangpur, Dist.- Sundargarh, Odisha.

Ref: Environmental Clearance Letter No. SEIAA 619 / SEIAA – 128/10, dated 22.12.2010.

Dear Sir,

With reference to above captioned subject matter, we are submitting herewith the six-monthly compliance report of the conditions laid down in above Environmental clearance for the period October-2022 to March-2023.

Thanking you,

Your Sincerely,

For **Dalmia Cement Bharat Limited,**



(Ashok Kumar Mishra)
General Manager - Environment

Encl: As above

CC: 1. The Addl. PCCF (C), IRO, MoEF&CC, Eastern Zone, Bhubaneswar, Odisha.
2. The Member Secretary, OSPCB, Bhubaneswar, Odisha.
3. The Member Secretary, CPCB, New Delhi.

Six-monthly compliance report (Oct, 2022 to March, 2023) of condition stipulated in Environmental Clearance Letter No. SEIAA 619 / SEIAA-128/10 dated 22 December 2010 by SEIAA, Odisha for (2 x 27MW) Captive Power Plant Project of M/s Dalmia Cement Bharat Limited [Formerly, OCL India Limited], Rajgangpur.

Sl. No.	Condition	Status of Compliance
i	<p>The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water pollution, Noise pollution and Land pollution including solid waste management as mentioned by him in form-1, Final EIA reports and Environment Management Plant (EMP) in compliance with the prescribed statutory norms and standards.</p>	<p>Following Pollution control systems are installed for prevention, control of pollution and mitigation of Air, Water, Noise, & Land pollution including solid waste management.</p> <p><u>Air Pollution Control, systems adopted</u></p> <ul style="list-style-type: none"> • Two nos. of Electrostatic Precipitator (ESP) with six fields have been installed and operating efficiently. • Pneumatic ash conveying system from Silo to Cement Plant. • Ash storage silos with bag filters installed. • Closed Conveyor belt for material transportation. • Bag filters (dust extraction) and dust suppression system in Coal handling transfer points and coal conveying circuits respectively. • Regular water sprinkling on the haulage roads and wind barrier of 30 mtrs Height for preventing fugitive dust generation. <p><u>Water pollution Control, systems adopted</u></p> <ul style="list-style-type: none"> • STP has been installed for treatment of domestic wastewater. • Water generated from process are recycled and reused. Rain water harvesting pond made inside plant for holding about 30000 m3 of water for reutilization in CPP. <p><u>Noise Pollution Control, systems adopted</u></p>

		<ul style="list-style-type: none"> • Compressor, TG area are acoustically sealed to prevent noise pollution. • In stream vent line. silencers are provided. • Seal blower silencers in Fans. <p><u>Solid Waste Management, systems adopted</u></p> <ul style="list-style-type: none"> • Sludge from STP is utilized for green belt development / plantation. • Ash generated from power plant is utilized as raw material for cement manufacturing process in our own cement plant.
ii	The applicant will take necessary steps for Socio-economic development of the people of the area on need based assessment for providing employment education, health care, drinking water and sanitation, road and communication facilities etc., after a detailed primary socio economic survey of the core zone.	Necessary steps are being taken for socio-economic development of the people in the surrounding area as highlighted in the survey report under CSR activities on regular basis.
iii	The applicant will comply with the points, concerns and issued raised by the people during public hearing on 29 th May 2009 in accordance with the comments made by him thereon.	All the concerns and issues raised during public hearing have been addressed.
iv	The applicant will take statutory clearance / approval / permission from the concerned authorities in respect of his project as and when required.	Noted. All statutory clearances and approvals from the concerned authorities are in place.
v	For post environmental clearance monitoring, the applicant will submit half yearly compliance report in respect of the stipulated terms and conditions of Environmental clearance to the State Environmental Impact Authority (SEIAA/), Orissa on 1 st June and 1 st December of each calendar year.	Half yearly EC Compliance reports is submitted to SEIAA regularly.
vi	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate matter emission does not exceed 50 mg/Nm ³ .	High Efficiency ESPs have been installed and stack emissions are well within standard.
vii	The proponent may use bottom ash as a supplement for the raw material for cement production with approved technology confirming to the relevant standards specification.	Bottom Ash is used as raw material for cement production.
viii	The unit shall be allowed to use Washery rejects as raw material having <60% ash content	Noted.
ix	The proponent shall treat the flue gas through Flue Gas De-sulfurization (FGD), if SO ₂ emission level	Present SO ₂ emission levels are well within the prescribed norms. Hence, FGD is not

	exceeds the prescribed norm	required.
x	No ground water shall be extracted for the project work at any stage.	No Ground Water is extracted at any point of time.
xi	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dust areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Adequate dust extraction systems are installed as mentioned below- i) 8 nos. of bag filters in coal handling transfer points to control fugitive dust ii) Pneumatic ash conveying system from Silo to Cement plants. iii) Covered conveyor belts provided for local transportation to eliminate fugitive dust. iv) Wind Barrier alongside of CPP boundary to control dust emission to nearby locality.
xii	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilized shall be ensured as per fly ash notification of MoEF & CC, Govt. of India. Unutilized fly ash and bottom ash shall be stored in the ash pond separately through high concentration slurry disposal method. Mercury levels along with other heavy metals (Pb, Cr, As, etc.) should be mentioned in the fly ash / bottom ash, leachates and effluents emanating from the ash pond.	100 % fly ash is utilized in our cement plant. Bottom ash is stored in silo and being utilized as raw material in cement manufacturing.
xiii	The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.	No Ash Pond has been constructed as 100% ash is utilized in cement manufacturing.
xiv	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.	The treated effluent conforms to the prescribed norms and is reused within the plant premises. Effluent is not allowed to mix with storm water.
xv	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/ plantation.	Sewage treatment plant (STP) is in place for treatment of domestic wastewater and treated water is used for greenbelt development / plantation.
xvi	Rainwater harvesting should be adopted. Central Groundwater Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished to the SEIAA, Orissa.	Rain water harvesting is done to the maximum extent possible. A rain water harvesting earthen pond has been constructed to collect the storm water.
xvii	Adequate safety measures shall be provided in the LDO and / HFO / LSHS shall be made in the plant area to check / minimize spontaneous fires in coal yard,	Adequate safety measures have been provided in the plant area to check fires in coal and liquid fuel storage area.

	especially during summer season. Details of these measures to be taken along with location plant layout shall be submitted to the SEIAA, Orissa.	
xviii	Storage facilities for auxiliary liquid fuel such as LDO and /HFO / LSHS shall be made in the plant area where risk is minimum. On site and off site Disaster Management plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modification required if any, shall be incorporated in the Disaster Management plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.	Storage facilities for liquid fuel has been earmarked in the plant area. Onsite and Offsite Disaster Management Plans are in place and Mock drills are conducted to ensure effectiveness of these plans. Sulfur content in the liquid fuel does not exceed 0.5%.
xix	Regular monitoring of ground water in and around the ash pond shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA Orissa	Not applicable, as no ash ponds at site.
xx	A GREEN BELT of adequate width and density preferably with local species along the periphery of the plant & alongside roads, etc. shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green belt throughout the year & for this purpose they may engage professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared accordingly and submitted to the SEIAA, Orissa.	Green cover has been developed with plantation of local native species as per CPCB guidelines over 33% of the land area. Gap filling is also being carried out owing to 80% survival rate. However, efforts are being taken to increase the survival rate beyond 90%.
xxi	First aid and sanitation arrangements shall be made for the drives and other contract workers during construction phase.	Necessary first aid and sanitation arrangements were provided to drivers and contract workers during construction phase.
xxii	Noise levels emanating from turbines and air compressors shall be limited to 75 dB (A); for people working in the high noise area, requisite personal protective equipment's like earplugs / ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy / less noisy areas.	Noise levels are monitored on a regular basis and the same is maintained within the permissible limit. PPEs such as ear muff/ear plugs have been mandated for the people working in the noisy area.
xxiii	Regular monitoring of ground level concentrating of SO ₂ , NO _x , RSPM (PM ₁₀ & PM _{2.5}) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring	The environment monitoring is being carried out regularly and reports are attached as Annexure I and the same is submitted to the authority. The location of monitoring stations has been decided in consultation with SPCB, Odisha.

	stations and frequently of monitoring shall be decided in consultation with SPCB, Orissa	
xxiv	Provision shall be made for housing of constructing labours within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Necessary basic infrastructure was provided to the labours during the project construction phase.
xxv	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	An Environment management cell is in place for implementation of stipulated environmental safeguards.
xxvi	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.	Half yearly report on the status of Compliance of EC condition is submitted regularly to the statutory body.
xxvii	Separate fund shall be allocated for implementation of environmental protection measures along with item-wise break- up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.	Separate fund has been allocated for implementation of environmental protection measures and has not been diverted for any other purpose.
xxviii	The need of the local people should be appropriately addresses in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA Odisha.	Action plan addressing the need of the local people has been prepared and submitted. The implementation is being taken up in the CSR activities.
xxix	The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract under the provisions of Environmental Protection (EP) Act, 1986.	Noted.

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

OCTOBER 2022 TO MARCH 2023

FOR

DALMIA CEMENT (BHARAT) LIMITED

[Formerly, OCL India Limited]

At/Po: RAJGANGPUR, District: SUNDARGARH, ODISHA

AT

CAPTIVE POWER PLANT (CPP)

**Prepared by: Environment Management Department
Dalmia Cement (Bharat) Limited, Rajgangpur, Odisha**



Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

ULR – TC68162300000735F
REPORT NO: CPL/R/SE/MAR-23/70

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/MAR-23/57
Location of Sampling	:	Captive Power Plant (Line – 2)
Date of Sampling	:	23.03.2023
Time of Sampling	:	10:40 Hrs
Duration of Sampling	:	47 min
Sample Received on	:	23.03.2023
Date of Test	:	23.03.2023 – 24.03.2023

A. General Information About the Stack		:		
1. Stack Connected to	:	Boiler – 1 & 2		
2. Emission Due to	:	Coal		
3. Material of Construction of Stack/Duct	:	Steel		
4. Shape of Stack/Duct	:	Circular		
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes		
6. Capacity	:	28 MW		
7. Running Load	:	-		
B. Physical Characteristics of Stack		:		
1. Height of Stack from Ground Level	:	105 m		
2. Height of Sampling Port from Ground Level	:	35 m		
3. Diameter/Dimension of Stack/ Duct at sampling point	:	3.13 m		
C. PARAMETERS ANALYSED		METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	:	IS 11255 Part – 3, 1985 (RA 2018)	34	-
2. Temperature of Gas Emission (°C)	:	IS 11255 Part – 3, 1985 (RA 2018)	104	-
3. Barometric Pressure (mm Hg)	:	IS 11255 Part – 3, 1985 (RA 2018)	748	-
4. Velocity of Gas Emitted (m/sec)	:	IS 11255 Part – 3, 1985 (RA 2018)	6.23	-
5. Quantity of Gas Emitted (Nm ³ /hr)	:	IS 11255 Part – 3, 1985 (RA 2018)	1, 34, 083.95	-
6. Particulate Matter Concentration (mg/Nm ³)	:	IS 11255 Part – 1, 1985 (RA 2019)	13	50
7. Sulphur Dioxide(SO ₂) Concentration (mg/Nm ³)	:	IS 11255 Part – 2, 1985 (RA 2014)	550.90	600
8. Nitrogen Dioxide (NO ₂) Concentration (mg/Nm ³)	:	IS 11255 Part – 7, 2005 (RA 2017)	245.8	300
D. Pollution Control Device Installed		ESP		

Test Done By



P. Saseeni
Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

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

Page 1 of 1

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Branch Office & Laboratory:
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Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

REPORT NO: CPL/R/SE/MAR-23/70N

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
 Address of the Customer : RGP Cement Factory, Rajgangpur – 770017, Dist: Sundargarh, Odisha
 Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/MAR-23/57
Location of Sampling	:	Captive Power Plant (Line – 2)
Date of Sampling	:	23.03.2023
Time of Sampling	:	10:40 Hrs
Duration of Sampling	:	47 min
Sample Received on	:	23.03.2023
Date of Test	:	23.03.2023 – 24.03.2023

A. General Information About the Stack			
1. Stack Connected to	:	Boiler – 1 & 2	
2. Emission Due to	:	Coal	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Circular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	28 MW	
7. Running Load	:	-	
B. Physical Characteristics of Stack			
1. Height of Stack from Ground Level	:	105 M	
2. Height of Sampling Port from Ground Level	:	35 M	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	3.13 M	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	IS 11255 Part – 3, 1985 (RA 2018)	34	-
Temperature of Gas Emission (°C)	IS 11255 Part – 3, 1985 (RA 2018)	104	-
3. Barometric Pressure (mm Hg)	IS 11255 Part – 3, 1985 (RA 2018)	748	-
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part – 3, 1985 (RA 2018)	6.23	-
5. Quantity of Gas Emitted (Nm ³ /hr)	IS 11255 Part – 3, 1985 (RA 2018)	1, 34, 083.95	-
6. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part – 1, 1985 (RA 2019)	13	50
7. Mercury(Hg) Concentration (mg/Nm ³)	-	< 0.02	0.03
D. Pollution Control Device Installed	ESP		

Test Done By



Verified By
P. Saseni

Authorized Signatory
Subhanga Praharaj
Managing Director

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC68162300000725F
REPORT NO: CPL/R/AAQ/MAR-23/42

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182**

Sample ID No	:	CPL/AAQ/MAR-23/300
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	22.03.2023 – 23.03.2023
Sampling Period	:	14:05 – 08:25 Hrs
Time of Sampling	:	18:20 Hrs
Sample Received on	:	23.03.2023
Date of Test	:	23.03.2023 – 24.03.2023

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	21	µg/m ³	IS : 5182 (PART – 24) 2019	60 (24 Hours)
2	PM 10	69	µg/m ³	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	08	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	27	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	68	µg/m ³	IS : 5182 (PART – 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	22	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

Test Done By



Verified By

P. Saloni

Authorized Signatory
Subhanga Praharaj
Managing Director

Subhanga Praharaj

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/MAR-23/42N

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED


Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182**

Sample ID No	:	CPL/AAQ/MAR-23/300
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	22.03.2023 – 23.03.2023
Sampling Period	:	1405 – 0825 Hrs
Time of Sampling	:	18:20 Hrs
Sample Received on	:	23.03.2023
Date of Test	:	23.03.2023 – 24.03.2023

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	IS : 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)


Test Done By




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Authorized Signatory
Subhanga Praharaj
Managing Director

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR – TC68162300000727F
REPORT NO: CPL/R/AAQ/MAR-23/44

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182, EN 12341

Sample ID No	:	CPL/AAQ/MAR-23/321
Location of Sampling	:	Roof Of Workshop (Line – 2)
Date of Sampling	:	23.03.2023 – 24.03.2023
Sampling Period	:	09:10 – 09:24 Hrs
Time of Sampling	:	24.14 Hrs
Sample Received on	:	24.03.2023
Date of Test	:	24.03.2023 – 25.03.2023

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	27	µg/m ³	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	76	µg/m ³	EN12341	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	µg/m ³	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	28	µg/m ³	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	75	µg/m ³	IS : 5182 (PART – 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	24	µg/m ³	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

Test Done By



Verified By

P. Sareni

Authorized Signatory
Subhanga Praharaj
Managing Director

Subhanga Praharaj

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

Page 1 of 1

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Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/MAR-23/44N

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182, EN 12341

Sample ID No	:	CPL/AAQ/MAR-23/321
Location of Sampling	:	Roof Of Workshop (Line – 2)
Date of Sampling	:	23.03.2023 – 24.03.2023
Sampling Period	:	09:10 – 09:24 Hrs
Time of Sampling	:	24.14 Hrs
Sample Received on	:	24.03.2023
Date of Test	:	24.03.2023 – 25.03.2023

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	IS : 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Test Done By



Verified By

P. Sasaki

Authorized Signatory
Subhanga Praharaj
Managing Director

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

Page 1 of 1

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TC - 6816

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

ULR - TC681623000000728F
REPORT NO: CPL/R/AAQ/MAR-23/45

FORMAT NO: CPL/FM/57

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: At/Po: RAJGANGPUR, SUNDARGARH - 770017, ODISHA
Sampling Method : IS: 5182

Sample ID No	:	CPL/AAQ/MAR-23/322
Location of Sampling	:	Near Captive Power Plant (Line - 2)
Date of Sampling	:	23.03.2023 - 24.03.2023
Sampling Period	:	09:22 - 09:15 Hrs
Time of Sampling	:	23.53 Hrs
Sample Received on	:	24.03.2023
Date of Test	:	24.03.2023 - 25.03.2023

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	26	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART - 24) 2019	60 (24 Hours)
2	PM 10	74	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART - 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	08	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART - 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	24	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART - 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	62	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART - 25) 2018	400 (24 Hours)
6	Ozone (O ₃)	26	$\mu\text{g}/\text{m}^3$	IS - 5182 (PART - 9) 1974, RA 2019	180 (1 Hour)

Test Done By

Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director



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

Page 1 of 1

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM157

REPORT NO: CPL/R/AAQ/MAR-23/45N

REPORT ISSUE DATE: 27.03.2023

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182

Sample ID No	:	CPL/AAQ/MAR-23/322
Location of Sampling	:	Near Captive Power Plant (Line – 2)
Date of Sampling	:	23.03.2023 – 24.03.2023
Sampling Period	:	09:22 – 09:15 Hrs
Time of Sampling	:	23.53 Hrs
Sample Received on	:	24.03.2023
Date of Test	:	24.03.2023 – 25.03.2023

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	IS : 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Test Done By

Verified By

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Subhanga Praharaj
Managing Director



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TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

REPORT NO: CPL/R/SE/DEC-22/84N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 20.12.2022

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
 Address of the Customer : RGP Cement Factory, Raigangpur – 770017, Dist: Sundargarh, Odisha
 Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/DEC-22/54
Location of Sampling	:	Captive Power Plant
Date of Sampling	:	16.12.2022
Time of Sampling	:	12:20 Hrs
Duration of Sampling	:	45 min
Sample Received on	:	16.12.2022
Date of Test	:	16.12.2022 – 17.12.2022

A. General Information About the Stack		:	
1. Stack/Duct Connected to	:	Boiler 1 & 2 ESP Inlet	
2. Emission Due to	:	Coal	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Rectangular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	28 MW	
7. Running Load	:	22 MW	
B. Physical Characteristics of Stack		:	
1. Height of Stack from Ground Level	:	105 m	
2. Height of Sampling Port from Ground Level	:	NA	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	3.13 m	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	
1. Ambient Temperature (°C)	IS 11255 Part – 3, 1985 (RA 2018)	31	
2. Temperature of Gas Emission (°C)	IS 11255 Part – 3, 1985 (RA 2018)	157	
Barometric Pressure (mm Hg)	IS 11255 Part – 3, 1985 (RA 2018)	748	
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part – 3, 1985 (RA 2018)	16.42	
5. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part – 1, 1985 (RA 2019)	438	
D. Pollution Control Device Installed	ESP		

Test Done By

Verified By



Authorized Signatory
Subhanga Praharaj
Managing Director

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TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/FM/58

REPORT NO: CPL/R/SE/DEC-22/85N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 20.12.2022

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
 Address of the Customer : RGP Cement Factory, Raigangpur – 770017, Dist: Sundargarh, Odisha
 Sampling Method : IS 11255 (Part – 1): 1985, RA 2019

Sample ID No	:	CPL/SE/DEC-22/53
Location of Sampling	:	Captive Power Plant
Date of Sampling	:	16.12.2022
Time of Sampling	:	10:30 Hrs
Duration of Sampling	:	62 min
Sample Received on	:	16.12.2022
Date of Test	:	16.12.2022 – 17.12.2022

A. General Information About the Stack			
1. Stack/ Duct Connected to	:	Boiler – 1 & 2 ESP Outlet	
2. Emission Due to	:	Coal	
3. Material of Construction of Stack/Duct	:	Steel	
4. Shape of Stack/Duct	:	Rectangular	
5. Whether Stack is provide with Permanent Platform & Ladder	:	Yes	
6. Capacity	:	28 MW	
7. Running Load	:	22 MW	
B. Physical Characteristics of Stack			
1. Height of Stack from Ground Level	:	105 m	
2. Height of Sampling Port from Ground Level	:	35 m	
3. Diameter/Dimension of Stack/ Duct at sampling point	:	3.13 m	
C. PARAMETERS ANALYSED	METHODS OF ANALYSIS	RESULTS OBTAINED	PERMISSIBLE LIMIT AS PER CTO
1. Ambient Temperature (°C)	IS 11255 Part – 3, 1985 (RA 2018)	30	-
2. Temperature of Gas Emission (°C)	IS 11255 Part – 3, 1985 (RA 2018)	140	-
3. Barometric Pressure (mm Hg)	IS 11255 Part – 3, 1985 (RA 2018)	748	-
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part – 3, 1985 (RA 2018)	11.52	-
5. Quantity of Gas Emitted (Nm ³ /hr)	IS 11255 Part – 3, 1985 (RA 2018)	2, 25, 632.14	-
6. Particulate Matter Concentration (mg/Nm ³)	IS 11255 Part – 1, 1985 (RA 2019)	40	50
7. Sulphur Dioxide(SO ₂) Concentration (mg/Nm ³)	IS 11255 Part – 2, 1985 (RA 2014)	409.45	600
8. Nitrogen Dioxide (NO ₂) Concentration (mg/Nm ³)	IS 11255 Part – 7, 2005 (RA 2017)	236.1	300
9. Mercury (Hg) Concentration (mg/Nm ³)	CPL/SOP/01, Issue No: 03, dtd.: 01.08.2022	< 0.02	0.03
D. Pollution Control Device Installed	ESP		

D. Debi
Test Done By

P. Sareni
Verified By



S. Subhanga
Authorized Signatory
Subhanga Praharaaj
Managing Director

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/DEC-22/58N

REPORT ISSUE DATE: 26.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182, EN 12341**

Sample ID No	:	CPL/AAQ/DEC-22/169
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	16.12.2022 – 17.12.2022
Sampling Period	:	1615 – 0840 Hrs
Time of Sampling	:	16:25 Hrs
Sample Received on	:	17.12.2022
Date of Test	:	17.12.2022 – 19.12.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	28	$\mu\text{g}/\text{m}^3$	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	81	$\mu\text{g}/\text{m}^3$	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	10	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	23	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	47	$\mu\text{g}/\text{m}^3$	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	25	$\mu\text{g}/\text{m}^3$	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

Daha
Test Done By

P. Saseni
Verified By

Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director



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REPORT ISSUE DATE: 26.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182, EN 12341**

Sample ID No	:	CPL/AAQ/DEC-22/169
Location of Sampling	:	Near Atithi Niwas
Date of Sampling	:	16.12.2022 – 17.12.2022
Sampling Period	:	1615 – 0840 Hrs
Time of Sampling	:	16:25 Hrs
Sample Received on	:	17.12.2022
Date of Test	:	17.12.2022 – 19.12.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	IS : 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Test Done By

Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director



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

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/DEC-22/53N

REPORT ISSUE DATE: 26.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182, EN 12341

Sample ID No	:	CPL/AAQ/DEC-22/155
Location of Sampling	:	Near Workshop Area (Line – 2)
Date of Sampling	:	14.12.2022 – 15.12.2022
Sampling Period	:	1140 – 1117 Hrs
Time of Sampling	:	23:37 Hrs
Sample Received on	:	15.12.2022
Date of Test	:	15.12.2022 – 16.12.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	28	$\mu\text{g}/\text{m}^3$	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	81	$\mu\text{g}/\text{m}^3$	EN 12341, 1998 Low Volume Sampler	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	05	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	16	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	95	$\mu\text{g}/\text{m}^3$	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	27	$\mu\text{g}/\text{m}^3$	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

Deha
Test Done By

P. Saseni
Verified By

Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director



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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/DEC-22/53N

REPORT ISSUE DATE: 26.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA
Sampling Method : IS: 5182, EN 12341

Sample ID No	:	CPL/AAQ/DEC-22/155
Location of Sampling	:	Near Workshop Area (Line – 2)
Date of Sampling	:	14.12.2022 – 15.12.2022
Sampling Period	:	1140 – 1117 Hrs
Time of Sampling	:	23:37 Hrs
Sample Received on	:	15.12.2022
Date of Test	:	15.12.2022 – 16.12.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	IS : 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Daha
Test Done By

P. Saseeni
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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/DEC-22/55N

REPORT ISSUE DATE: 26.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182**

Sample ID No	:	CPL/AAQ/DEC-22/156
Location of Sampling	:	Near CPP WTP Area
Date of Sampling	:	14.12.2022 – 15.12.2022
Sampling Period	:	1150 – 1115 Hrs
Time of Sampling	:	23:35 Hrs
Sample Received on	:	15.12.2022
Date of Test	:	15.12.2022 – 16.12.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	PM 2.5	27	$\mu\text{g}/\text{m}^3$	CPL/SOP/01/PM2.5, Issue No: 02, dtd: 23.10.2017	60 (24 Hours)
2	PM 10	79	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 23) 2006, RA 2017	100 (24 Hours)
3	Sulphur Dioxide (SO ₂)	07	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 2) 2001, RA 2017	80 (24 Hours)
4	Nitrogen Dioxide (NO ₂)	17	$\mu\text{g}/\text{m}^3$	IS : 5182 (PART – 6) 2006, RA 2017	80 (24 Hours)
5	Ammonia (NH ₃)	90	$\mu\text{g}/\text{m}^3$	CPL/SOP/01/NH ₃ , Issue No: 02, dtd: 23.10.2017	400 (24 Hours)
6	Ozone (O ₃)	27	$\mu\text{g}/\text{m}^3$	IS – 5182 (PART – 9) 1974, RA 2019	180 (1 Hour)

Daha
Test Done By

P. Saseni
Verified By

Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director



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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM/57

REPORT NO: CPL/R/AAQ/DEC-22/55N

REPORT ISSUE DATE: 26.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s DALMIA CEMENT (BHARAT) LIMITED**
Address of the Customer: **At/Po: RAJGANGPUR, SUNDARGARH – 770017, ODISHA**
Sampling Method : **IS: 5182**

Sample ID No	:	CPL/AAQ/DEC-22/156
Location of Sampling	:	Near CPP WTP Area
Date of Sampling	:	14.12.2022 – 15.12.2022
Sampling Period	:	1150 – 1115 Hrs
Time of Sampling	:	23.35 Hrs
Sample Received on	:	15.12.2022
Date of Test	:	15.12.2022 – 16.12.2022

Sl No	Parameters	Results Obtained	Unit	Method of Analysis	National Ambient Air Quality Standards, 2009 for Industrial, Residential, Rural & Other Area
1	Lead (Pb)	< 0.4	µg/m ³	IS : 5182 (PART – 22) 2004, RA 2019	1 (24 Hours)
2	Arsenic (As)	< 0.2	ng/m ³	CPL/SOP/01/As, Issue No: 02, dtd.: 23.10.2017	6 (Annual)
3	Nickel (Ni)	< 12	ng/m ³	IS : 5182 (PART – 26) 2020	20 (Annual)
4	Carbon Monoxide (CO)	< 0.1	mg/m ³	Electro-chemical Sensor Based Digital Monitor	4 (1 Hour)
5	Benzene (C ₆ H ₆)	< 0.5	µg/m ³	IS : 5182 (PART – 11) 2006, RA 2017	5 (Annual)
6	Benzo(a)pyrene Particulate Phase only	< 0.1	ng/m ³	IS : 5182 (PART – 12) 2004, RA 2014	1 (Annual)

Deha
Test Done By

P. Saseni
Verified By

Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director



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

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This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

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