12th December 2023.

To,
The Director,
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Green house complex, Gopalareddy Road,
Vijayawada, Andhra Pradesh
520010

Sub: Berger Paints India Limited – Half Yearly Compliance Report.

Dear Sir,

Please find our Half-Yearly report (Apr'23 to Sep'23) on compliance to EC conditions as required.

We would be pleased to provide you with additional information if required.

Kindly acknowledge the receipt.

With Regards,
For Berger Paints India Ltd

Venkata Apparao. D
GM-Manufacturing

Copy to:

1. The Joint Chief Environmental Engineer UH4, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 008

2. The EE, AP Pollution Control Board, Door. No: 6-3-145, First Floor, Revenue ward 6, Ramnagar, Anantapur – 515004, Andhra Pradesh

Berger Paints India Limited, Hindupur

Name of the Project: Berger Paints India Limited – Hindupur – Andhra Pradesh.
Clearance Letter No. with date: F. No. J-11011/515/2010-IA II (I) dated 1st November 2011.
Period of Compliance Report: April 2023 to September 2023.

Sl. No	Conditions	Compliance Status	Remarks
A	**SPECIFIC CONDITIONS:**		
i)	Only water Paint shall be manufactured. No solvent paint shall be manufactured without prior permission obtained from ministry.	Complied	
ii)	No lead and chromium-based paint shall be manufactured.	Complied	
iii)	Adequate stack height shall be provided to HSD/LDO fired steam boilers (5 Nos) to control air emissions. As proposed adequate dust extraction system shall be provided to capture fugitive emissions of fine particles from mixers during powder charging.	Currently we are not operating HSD/LDO fire stream Boiler. For Mixers the plant has a dedicated dust extraction system.	
iv)	The gaseous emissions (SO_2, NOx, CO and HC) and particulate matter from boiler stack shall confirm to the norms prescribed by the CPCB/AP pollution Control Board (APPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measure are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	There are no boilers installed currently.	
v)	The levels of $PM_{2.5}$, NO_x CO HC (Methane and Non–methane) and VOCs shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office MOEF, the respective Zonal office of CPCB and APPCB.	The applicable parameters are displayed at main gate of the company for display to public.	
vi)	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals /materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and uploading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emission shall confirm to the limits stipulated by the APPCB.	Adequate dust extraction system and closed loop charging system are implemented to control the fugitive emissions	
vii)	VOCs detectors shall be installed in the work zone. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.	It is not applicable for our case since we are not using any solvent. However, we have	

		procured portable VOC digital meter and are using it to check the VOC as per the requirement	
viii)	For further control of fugitive emissions, following steps shall be followed		
a	Closed handling system shall be provided for chemicals	Raw material (powder & liquids) are being charged through closed pipelines from storage area to process area	
b	Reflux condenser shall be provided over reactor.	Not applicable as there are no reactors	
c	System of leak detection and repair of pump/pipeline based on preventive maintenance.	Regular PM being carried out as per schedule	
d	The acid shall be taken from storage tanks to reactor through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.	Not Applicable as there is no bulk storage of acid.	
e	Cathodic protection shall be provided to the underground solvent storage tanks.	Not Applicable.	No solvents stored/No underground tanks
ix)	The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied	
x)	Total freshwater requirement from APIIC water supply shall not exceed 524 cum/day and prior permission shall be obtained from the concerned authority and a copy submitted to the ministry Regional office at Bangalore. No ground water shall be used.	Will not be using water more than 524 cum/day.	
xi)	Total industrial waste water generation shall not exceed 84 cum/day. Industrial effluent shall be treated in ETP comprising physiochemical treatment facility, biological treatment and tertiary treatment. Treated effluent shall be recycled/reused with in factory premises after achieving desired water quality for various purposes.	Complied	
xii)	No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopted.	Complied RO & MEE are planned to install during Solvent base expansion.	
xiii)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrestors shall be provided on tank farm. Solvent transfer shall be by pumps.	Solvents are not being used in process.	

xiv)	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under hazardous Waste (management, Handling and Transboundary Movement) rules, 2016 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid /hazardous wastes in the TSDF. Measures shall be taken from for firefighting facilities in case of emergency.	The solid waste will be disposed to M/s. Coastal Waste Management Project, Nellore (dist.) and M/s GM Eco services as per CFO. Water Sprinkler system has been installed in Scrap Yard.	
xv)	The company shall strictly comply with the rules and guidelines under manufacture, Storage and Import of hazardous chemicals (MSIHC) Rules 1989 as amended time to time. All Transportation of hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	None of the raw materials used in our process fall under the schedule of MSIHC rules	
xvi)	The company shall undertake following waste minimization measures :		
a	Metering and control of quantities of active ingredients to minimize waste.	All the powder and liquid ingredients will be taken from pneumatic conveying system with load cell and flow meter which automatically decreases the wastage. No active ingredients are used.	
b	Reuse of by – products from the process as raw materials or as raw material substitute in other processes.	There is no by-product in our process.	
c	Use of automated filling to minimize spillage.	Complied	
d	Use of close feed system into batch reactors.	Closed feeding system for TSDs & mixers is implemented	
e	Venting equipment through vapor recovery system	It is not applicable as currently we are not using any solvents.	
f	Use of high-pressure hoses for equipment cleaning to reduce waste water generation.	Complied	
xvii)	Proper spillage management plan shall be prepared and implemented. A copy of spillage management plan shall be submitted to the Ministry's regional office at Bangalore.	Complied	
xviii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the OISD 117 norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas.	Complied	

xix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied	
xx)	Green belt shall be developed in 80,617 sqm out of total land 1, 92, 831 sqm. Thick green belt with suitable plant species shall be developed around the unit to mitigate the odor problem.	33% of site area is being maintained exclusively as green belt.	
xxi)	Provision shall be made for the housing for the construction labor 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 a temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Not applicable	
B.	**GENERAL CONDITIONS:**		
i	The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.	Shall be adhered.	
ii	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required if any.	Will comply in such case	
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State pollution Control Board and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied	
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under environment (protection) Act 1986 rules viz. 75 dBA (day time) and 70 dBA (night time)	Complied.	
v	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Strom water drains in plant are directed towards rainwater harvesting pit.	
vi	Training shall be imparted to the employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for the all employees shall be	Complied	Training is given to all employees, Pre-employment and routine

	undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.		medical examination to all employees is under taken
vii	Usage of Personnel protection equipment (PPEs) by all employees/ workers shall be ensured.	Complied	
viii	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied	
ix	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administrations.	Compiled.	
x	The company shall undertake eco developmental measures including community welfare in the project area for the overall improvement of the environment.	Compiled.	
xi	A separate environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Compiled.	
xii	The company shall earmark sufficient funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purposes.	Adhered.	
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned panchayat, Zilla parishad/Municipal corporation, union local body and the local NGO, if any from who suggestions representations, if any, were received while processing the proposal.	Will be complied in such a case	

Signature:

Name: **Venkata Apparao D**

GM – Manufacturing

Berger Paints India Limited – Hindupur

ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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ISO 45001:2018

TEST REPORT

Table No. 1 a

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A1 - DG Set Back Side (250KVA & 1250KVA)
Barometric pressure	: 705 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Issue Date	: 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.11.2023	N/23/11/3-0028	12	14	46	22	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.11.2023	N/23/11/3-0028	<0.1	<0.5	<0.5	<0.5	<0.2	<20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

M.SACHIN RAJU
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Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 1 b

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A2 - Near ETP Area
Barometric pressure	: 705 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Issue Date	: 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.11.2023	N/23/11/3-0029	9	12	40	20	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.11.2023	N/23/11/3-0029	0.11	<0.5	<0.5	<0.5	<0.2	21
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 c

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A3 - Near Admin (U/G Water Tank)
Barometric pressure	: 705 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Issue Date	: 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.11.2023	N/23/11/3-0030	7	9	38	19	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.11.2023	N/23/11/3-0030	<0.1	<0.5	<0.5	<0.5	<0.2	20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 d

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A4 - Near Green Belt Area
Barometric pressure	: 705 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Issue Date	: 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.11.2023	N/23/11/3-0031	11	12	48	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.11.2023	N/23/11/3-0031	<0.1	<0.5	<0.5	<0.5	<0.2	24
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 2 a

Report No. ED013323112

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory Representaive
Location of Sampling	: Raw Effluent water
Date of sample collection	: 07.11.2023
Date of sample receipt	: 08.11.2023
Lab Code	: ED/23/11/2-133
Issue Date	: 16.11.2023
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Sl. No.	Parameters	Result	Method of Testing
1	pH	6.59	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C_6H_5OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1930	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	580	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr^{+6} (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	1238	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27^0C] (mg/l), Max	35.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT""

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TEST REPORT

Table No. 2 b

Report No. ED013423112

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory Representaive
Location of Sampling	: Effluent Treated Plant water
Date of sample collection	: 07.11.2023
Date of sample receipt	: 08.11.2023
Lab Code	: ED/23/11/2-134
Issue Date	: 16.11.2023

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.21	6.0 to 8.5	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C_6H_5OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1860	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	63	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr^{+6} (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	58	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27^0C] (mg/l), Max	16.0	30	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT""

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TEST REPORT

Table No. 6

NOISE LEVEL DATA

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory Representaive

Date of sample collection : 06.11.2023

Issue Date : 16.11.2023

Code No.	Monitoring stations	Day			Nigt		
		L_{min}	L_{eq}	L_{max}	L_{min}	L_{eq}	L_{max}
N1	WB Manufacturing building 1st floors	43.4	50.7	57.6	40.0	49.9	55.0
N2	Near Gate No 1 outside	41.0	55.2	65.0	43.0	52.5	58.0
N3	RM Area	39.0	55.1	62.0	37.0	49.2	53.2
N4	DG Set Area	47.0	57.8	67.5	38.0	52.7	57.2
N5	Near Gate No 2 outside	36.0	52.9	56.9	36.5	43.7	54.0

Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

	Leq. Limit dB(A)	
	Day	Night
Industrial areas	75	70
Commercial area	65	55
Residential area	55	45

Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

Worker not to be exposed for more than 115 dB(A)

With ear protection -

130 dB(A) 'Impulse' or 120 dB(A) 'Fast'

No entry when noise level exceeds 140 dB(A)

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ISO 45001:2018

TEST REPORT

Table No. 7a

Stack Monitoring Report

Report No. : N0028A23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 1
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 08.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028A
Issue date	: 16.11.2023

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	AmbientTemperature (^{0}C)	25
6	Stack Temperature (^{0}C)	288
7	Velocity (m/s)	18.92
8	Quanitity of flue Gas Discharged into atmosphere (Nm^3/hr)	821
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	(g/Kw-Hr	1.21	≤ 4.0
2	CO		1.33	≤ 3.5
3	PM		0.127	≤ 0.2

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TEST REPORT

Table No. 7b

Stack Monitoring Report

Report No. : N0028B23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 2
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 08.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028B
Issue date	: 16.11.2023

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	AmbientTemperature (^{0}C)	25
6	Stack Temperature (^{0}C)	320
7	Velocity (m/s)	16.71
8	Quanitity of flue Gas Discharged into atmosphere (Nm^3/hr)	6196
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO_x as (NO_2) (at 15% O_2), Dry basis	PPMV	226.7	710
2	NHC (as C) (at 15% O2),	mg/Nm^3	49.5	100
3	PM (at 15% O2),	mg/Nm^3	44.2	75
4	CO (at 15% O2),	mg/Nm^3	37.9	150

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ISO 45001:2018

TEST REPORT

Table No. 7c

Stack Monitoring Report

Report No. : N0028C23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 2
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 08.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028C
Issue date	: 16.11.2023

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	AmbientTemperature (^{0}C)	25
6	Stack Temperature (^{0}C)	335
7	Velocity (m/s)	18.24
8	Quanitity of flue Gas Discharged into atmosphere (Nm^3/hr)	6762
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO_x as (NO_2) (at 15% O_2), Dry basis	PPMV	249.4	710
2	NHC (as C) (at 15% O2),	mg/Nm^3	42.2	100
3	PM (at 15% O2),	mg/Nm^3	47.8	75
4	CO (at 15% O2),	mg/Nm^3	43.3	150

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TEST REPORT

Table No. 7d

Stack Monitoring Report

Report No. : N0028D23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: Stack of Dust Collectors
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 07.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028D
Issue date	: 16.11.2023

GENRAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	AmbientTemperature (^{0}C)	26
5	Stack Temperature (^{0}C)	40
6	Velocity (m/sec)	12.67
7	Quanitity of flue Gas Discharged into atmosphere (Nm^3/hr)	16953
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	338 DTH 14
11	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO_2)	mg/Nm3	41.2
2	Nitrogen Dioxide (NO_2)	mg/Nm3	18.0
3	Particulate Matter (PM)	mg/Nm3	18.6

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TEST REPORT

Table No. 8

SOIL REPORT

Project : Berger Paints India Limited, Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory Representaive

Location : 1. Near ETP Plant Area, 2. Near Green Belt Area & 3. Near Scrap Yard

Date of Samples : 07.11.2023

Date of Sample Receipt : 08.11.2023

Issue date : 16.11.2023

SL. No.	PARAMETERS	Result			Method of Testing
		Near ETP Plant Area	Near Green Belt Area	Near Scrap Yard	
Lab Code		ED/23/11/2-0130	ED/23/11/2-0131	ED/23/11/2-0132	SOP/C/S-10
1	Total Chromium as Cr(mg/Kg)	<5.0	<5.0	<5.0	SOP/C/S-10
2	Copper as Cu(mg/Kg)	<2.5	<2.5	<2.5	SOP/C/S-10
3	Hexavalent Chromium as Cr^{+6} (mg/Kg)	<5.0	<5.0	<5.0	SOP/C/S-10
4	Lead as Pb (mg/Kg)	<2.5	<2.5	<2.5	SOP/C/S-10
5	Zinc as Zn (mg/Kg)	<5.0	<5.0	<5.0	SOP/C/S-10
6	Nickel as Ni (mg/Kg)	<5.0	<5.0	<5.0	SOP/C/S-10
"END OF REPORT"					

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