



19th June 2023.

To,
The Director,
Ministry of Environment, Forest and Climate Change,
Regional Office (SEZ),
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 34

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

Dear Sir,

Please find our Half-Yearly report (Oct'22 to Mar'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

Plot No. 262, Industrial Growth Centre Thumukunta Village, Hindupur-515211 Dist. Anantapur (A.P.)

Regd. Office : Berger House, 129, Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax: +91-33-2249 9009/9729, www.bergerpaints.com

CIN - L51434WB1923PLC004793, E-mail: consumerfeedback@bergerindia.com

Berger Paints India Limited, Hindupur

Pointwise Six-Months Compliance Report Oct'22 to Mar'23

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 , NO _x , 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.	Currently we are not operating HSD/LDO fire steam Boiler	
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 unloading 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	It is not applicable for our case since we are not using	

Berger Paints India Limited, Hindupur

	taken immediately.	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.	NA	
c	System of leak detection and repair of pump/pipeline based on preventive maintenance.	PM being carried out	
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.	NA	
e	Cathodic protection shall be provided to the underground solvent storage tanks.	NA	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 fresh water 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 within 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 Zero discharge concept shall be implemented when Solvent block is installed as per our CFE	
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	The solid waste will	

Berger Paints India Limited, Hindupur

	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.	be disposed to M/s. Coastal Waste Management Project, Nellore (dist.) and M/s GM Eco services. 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 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.	
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	

Berger Paints India Limited, Hindupur

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 as exclusive 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	Annexure Attached
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.	Annexure Attached
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.	Storm water drains in plant are directed towards rainwater harvesting/recharge pits	
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 undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied	Regular Training is given to all employees, Pre-employment and routine medical examination to all employees is under taken
vii	Usage of Personnel protection equipment (PPEs) by all employees/ workers shall be ensured.	Complied	

Berger Paints India Limited, Hindupur

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.	Complied.	
x	The company shall undertake eco developmental measures including community welfare in the project area for the overall improvement of the environment.	Complied.	
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.	Complied.	
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



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(UNIT OF MINERAL ENGINEERING SERVICES)



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MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

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	: 703 mm of Hg						
Temperature	: Min 18.0°C Max 31.0°C						
Relative Humidity	: Min 54% Max 76%						
Duration	: 24 Hrs.						
Date of Report	: 10.06.2023						
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 ₆ H ₆), µg/m ³
30.05.2023	ED/23/06/1-0102	11	13	53	27	<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
30.05.2023	ED/23/06/1-0102	<0.1	<0.5	<0.5	<0.5	0.2	28
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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M. SACHIN RAJU
T.M. - CHEMICAL

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 : 703 mm of Hg							
Temperature : Min 18.0°C Max 31.0°C							
Relative Humidity : Min 54% Max 76%							
Duration : 24 Hrs.							
Date of Report : 10.06.2023							
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 ₆ H ₆), µg/m ³
30.05.2023	ED/23/06/1-0103	7	11	45	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
30.05.2023	ED/23/06/1-0103	<0.1	<0.5	<0.5	<0.5	0.12	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 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 : 703 mm of Hg							
Temperature : Min 18.0°C Max 31.0°C							
Relative Humidity : Min 54% Max 76%							
Duration : 24 Hrs.							
Date of Report : 10.06.2023							
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 ₆ H ₆), µg/m ³
30.05.2023	ED/23/06/1-0104	12	14	50	29	<20	<1
Limits for Industrial , Residential, Rural and other Areas		60 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
30.05.2023	ED/23/06/1-0104	<0.1	<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 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 : 703 mm of Hg							
Temperature : Min 18.0°C Max 31.0°C							
Relative Humidity : Min 54% Max 76%							
Duration : 24 Hrs.							
Date of Report : 10.06.2023							
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 ₆ H ₆), µg/m ³
30.05.2023	ED/23/06/1-0105	11	15	48	27	<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
30.05.2023	ED/23/06/1-0105	<0.1	<0.5	<0.5	<0.5	0.18	27
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 e

FUGITIVE AIR QUALITY

Project		: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP			
Locatuon		: A5 - 1st Floor water Base			
Barometric pressure		: 703 mm of Hg			
Temperature		: Min 18.0°C Max 31.0°C			
Relative Humidity		: Min 54% Max 76%			
Date of Report		: 10.06.2023			
		Duration		: 8 Hrs	
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				SPM µg/m ³	RPM µg/m ³
30.05.2023	ED/23/06/1-0106	7	11	229	57
Methods of Measurement		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No.1 f

FUGITIVE AIR QUALITY

Project		: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP			
Locatuon		: A6 - Raw Materal Area Ground Floor			
Barometric pressure		: 703 mm of Hg			
Temperature		: Min 18.0°C Max 31.0°C			
Relative Humidity		: Min 54% Max 76%			
Date of Report		: 10.06.2023			
		Duration		: 8 Hrs	
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				SPM µg/m ³	RPM µg/m ³
30.05.2023	ED/23/06/1-0107	8	12	221	45
Methods of Measurement		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No. 1 g

AMBIENT AIR QUALITY VOC TEST REPORT

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

Sample Collected by : Environmental Laboratory Representative

Date of Monitoring : 30.05.2023

Date of Report : 10.06.2023

Sl No	Parameters	WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
		Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$
1	Benzene	0.52	0.87	1.32	0.82
2	Toulene	BDL	BDL	BDL	0.75
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

Note: BDL < 0.5 $\mu\text{g}/\text{m}^3$

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TEST REPORT

Table No. 2 a
Report No. ED2623061

Name of the Project		: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory Representative	
Location of Sampling		: Raw Effluent water	
Date of sample collection		: 31.05.2023	
Date of sample receipt		: 02.06.2023	
Lab Code		: ED/23/06/1-0026	
Issue Date		: 12.06.2023	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	7.95	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 ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	610	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	430	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	0.01	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	2341	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	86.2	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. ED2723061

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

Sample Collected by : Environmental Laboratory Representative

Location of Sampling : Effluent Treated Plant water

Date of sample collection : 31.05.2023

Date of sample receipt : 02.06.2023

Lab Code : ED/23/06/1-0027

Issue Date : 12.06.2023

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.95	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 ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	580	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	<5	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	0.01	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	62.4	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	8.0	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 Representative																					
Date of sample collection : 30.05.2023																					
Date of sample receipt ; 31.06.2023																					
Code No.	Monitoring stations	Day			Nigt																
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}														
N1	WB Manufacturing building 1 st floors	43.4	54.9	67.8	44.3	54.6	61.2														
N2	Near Gates No 1 outside	44.1	61.6	70.9	40.9	56.8	65.3														
N3	RM Area	40.5	55.2	60.9	42.1	55.0	60.1														
N4	DG Set Area	51.7	58.2	70.1	48.5	55.6	62.3														
N5	Near Gates No 2 outside	41.0	54.0	60.0	38.0	43.8	53.6														
<p>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Leq. Limit dB(A)</th> </tr> <tr> <th>Day</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> <tr> <td>Commercial area</td> <td>65</td> <td>55</td> </tr> <tr> <td>Residential area</td> <td>55</td> <td>45</td> </tr> </tbody> </table> <p>Permissible limits as per ILO Code of Practice</p> <p>For Unprotected ear - 8 hrs working shift</p> <p>Warning limit - 85 dB(A)</p> <p>Danger limit - 90 dB(A)</p> <p>Worker not to be exposed for more than 115 dB(A)</p> <p>With ear protection -</p> <p>130 dB(A) 'Impulse' or 120 dB(A) 'Fast'</p> <p>No entry when noise level exceeds 140 dB(A)</p>									Leq. Limit dB(A)		Day	Night	Industrial areas	75	70	Commercial area	65	55	Residential area	55	45
	Leq. Limit dB(A)																				
	Day	Night																			
Industrial areas	75	70																			
Commercial area	65	55																			
Residential area	55	45																			

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TEST REPORT

Table No. 7 a

STACK MONITORING REPORT

Report No. ED00108A023061

Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.				
Sample Collected by : Environmental Laboratory Representative				
Location of Sampling : DG set 1				
Date of sample collection : 31.05.2023				
Date of sample receipt : 02.06.2023				
Lab Code : ED/23/06/1-00108				
Issue Date : 12.06.2023				
Sl No	Parameters	units	Result	Limits
			DG set 1	
1	Stack height	Mts	5	--
2	Stack diameter	Mts	0.13	--
3	Capacity of DG	KVA	250	--
4	Stack Temperature	(°C)	365	--
5	Velocity	(m/sec)	20.21	--
6	Quantity of Gases	(Nm ³ /hr)	846	--
7	Nox +HC	(g/Kw-Hr)	1.55	≤ 4.0
8	CO		1.250	≤ 3.5
9	PM		0.161	≤ 0.2

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TEST REPORT

Table No. 7 b

STACK MONITORING REPORT

Report No. ED00109A023061

Project : Berger Paints India Limited, Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by : Environmental Laboratory Representative

Date of sample collection : 31.05.2023

Date of sample receipt : 02.06.2023

Issue Date : 12.06.2023

Sl No	Parameters	units	Results		DG Limits 0.8MW to 75MW
			DG sets 2	DG sets 3	
Lab Code :			ED/23/06/1-00109	ED/23/06/1-00110	
1	Stack height	Mts	5	5	--
2	Stack diameter	Mts	0.38	0.38	--
3	Capacity of DG	KVA	1250	1250	--
4	Stack Temperature	(°C)	344	345	--
5	Velocity	(m/sec)	17.4	19.3	--
6	Quantity of Gases	(Nm ³ /hr)	6350	7028	--
7	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	230	254	710
8	NHC (as C) (at 15% O ₂),	mg/Nm ³	50	42	100
9	PM (at 15% O ₂),	mg/Nm ³	60	54	75
10	CO (at 15% O ₂),	mg/Nm ³	38	43	150

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TEST REPORT

Table No. 7 c

STACK MONITORING REPORT

Report No. ED00111A023061

Project : Berger Paints India Limited, Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by : Environmental Laboratory Representative

Location of Sampling : Stack of Dust Collectors

Date of sample collection : 31.05.2023

Date of sample receipt : 02.06.2023

Lab Code : ED/23/06/1-00111

Issue Date : 12.06.2023

Ref ; G.S.K 1214(E)

Sl No	Parameters	Result
1	Barometric pressure (mm of Hg)	705
2	Stack diameter (Mts)	0.74
3	Stack Temperature (°C)	45
4	Velocity (m/sec)	13.85
5	Quantity of Gas flow (Nm ³ /hr)	19525
6	Sulphur Dioxide (SO ₂), mg/Nm ³	46
7	Nitrogen Dioxide (NO ₂), mg/Nm ³	15
8	Particulate Matter (PM) (mg/Nm ³)	20

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