



2nd December 2022.

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 (Apr'22 to Sep'22) 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, Aanantapur – 515004, Andhra Pradesh

BERGER PAINTS INDIA LIMITED

Berger Paints India Limited, Hindupur

Pointwise Six-Months Compliance Report ~~Oct 21~~ ^{Apr 22 Sep 22} to ~~Mar 22~~

Sl. No	Conditions	Compliance Status (under construction stage)	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 conform 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 a convenient location near the 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	Adequate dust extraction system and water sprinkler system and Process system to control the fugitive emissions	

Berger Paints India Limited, Hindupur

	materials storage area etc. shall be regularly monitored. The emission shall conform to the limits stipulated by the APPCB.		
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 when required	
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) is 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 with in factory premises after achieving desired water quality for various	Complied	

Berger Paints India Limited, Hindupur

	purposes.		
xii)	No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopted.	Complied	
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 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.	Complied.	
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 being used	
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	

Berger Paints India Limited, Hindupur

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. Firefighting 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.	Complied As per CFE 33% of green belt has to be maintained.	
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 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.	Complied	
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 those circumstances	
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	Complied.	Annexure Attached

Berger Paints India Limited, Hindupur

	providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under environment (protection) Act 1986 rules viz. 75 dBA (day time) and 70 dBA (night time)		
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 are directed towards rain water harvesting 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	
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 socioeconomic 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.	

Berger Paints India Limited, Hindupur

xiii	A copy of the clearance letter shall be sent by the project proponent to concern 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.	Noted and will be complied	
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Signature: 

Name: Venkata Apparao D
Address: Berger Paints India Ltd
Plot No: 262, Industrial Area,
Thumukunta, Hindupur,
Sir Satya Sai District.
515211



MINERAL ENGINEERING SERVICES

Recognised by GOI, MOEF&CC Under E(P)A 1986 Vide Gazette Notification
No. S.O. 857(E) dated 26.02.2018. Recognition Valid Upto 25.02.2023



Table No. 1 a

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: DG Set Back Side (250KVA & 1250KVA)
Barometric pressure	: 710 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Date of Report	: 12.11.2022
Report No	: MES/PMS/ARN/239

Date of Sampling	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
02.11.2022 to 03.11.2022	11	15	58	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	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
02.11.2022 to 03.11.2022	0.08	<0.5	<0.5	<0.5	0.22	23
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.R. DURGA PRASAD)
GOVT. ANALYST

(M.S. RAJU)
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Table No. 1 b

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: Near ETP Area
Barometric pressure	: 710 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Date of Report	: 12.11.2022
Report No	: MES/PMS/ARN/240

Date of Sampling	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
02.11.2022 to 03.11.2022	12	17	55	30	<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	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
02.11.2022 to 03.11.2022	0.16	<0.5	<0.5	<0.5	0.32	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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Table No. 1 c

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: Near Admin (U/G Water Tank)
Barometric pressure	: 710 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Date of Report	: 12.11.2022
Report No	: MES/PMS/ARN/241

Date of Sampling	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
02.11.2022 to 03.11.2022	11	13	47	24	<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	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
02.11.2022 to 03.11.2022	0.17	<0.5	<0.5	<0.5	0.22	30
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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Table No. 1 d

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: Near Green Belt Area
Barometric pressure	: 710 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Date of Report	: 12.11.2022
Report No	: MES/PMS/ARN/242

Date of Sampling	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
02.11.2022 to 03.11.2022	10	12	38	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	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
02.11.2022 to 03.11.2022	0.15	<0.5	<0.5	<0.5	0.41	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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Table No.1 e

ANALYSIS REPORT OF FUGITIVE AIR QUALITY

MES/AQ/FTR/08/00

Project	: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP				
Location	: 1st Floor water Base				
Barometric pressure	: 710 mm of Hg				
Temperature	: Min 18.0 ^o C Max 26.0 ^o C				
Relative Humidity	: Min 54% Max 79%				
Date of Report	: 12.11.2022				
Report No	: MES/PMS/ARN/243				
Duration : 8 Hrs					
Monitoring Date	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		
			SPM µg/m ³	RPM µg/m ³	
02.11.2022	10	14	360	125	
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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Table No.1 f

ANALYSIS REPORT OF FUGITIVE AIR QUALITY

MES/AQ/FTR/08/00

Project	: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP				
Locatuon	: Raw Materal Area Ground Floor				
Barometric pressure	: 710 mm of Hg				
Temperature	: Min 18.0°C Max 26.0°C				
Relative Humidity	: Min 54% Max 79%				
Date of Report	: 12.11.2022				
Report No	: MES/PMS/ARN/244				
		Duration	: 8 Hrs		
Monitoring Date	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		
			SPM µg/m ³	RPM µg/m ³	
02.11.2022	9	11	325	128	
Methods of Measuremant	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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ORG000756
NABET
VTIC
INTERCERT
ISO 9001:2015
ISO 45001:2018

Table No. 1 g

AMBIENT AIR QUALITY VOC ANALYSIS REPORT

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

Date of Monitoring : 02.11.2022

Date of Report : 12.11.2022

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	0.48	0.95	1.11	0.79
2	Toulene	BDL	BDL	BDL	0.63
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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ORG000756



ISO 9001:2015

ISO 45001:2018

Table No. 2 a

WATER TEST REPORT


MES/WTR/09/00

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location of Sampling	: Raw Effluent water
Date of sampling	: 03.11.2022
Date of Report	: 12.11.2022
Report No	: MES/PMS/WR/73
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Sl. No.	Parameters	Method of Testing	Result
			Raw Effluent water
1	Suspended Solids (mg/l), Max	IS 3025 (Part-17)	436
2	Dissolved Solids (inorganic) mg/l, Max.	APHA 21 st Edition	630
3	pH	IS 3025 (Part-11)	7.50
4	Oil & Grease (mg/l), Max	IS 3025 (Part-39)	20
5	BOD [3 days at 27°C] (mg/l), Max	IS 3025 (Part-44)	80.4
6	COD (mg/l), Max	IS 3025 (Part-58)	2360
7	Lead as Pb (mg/l), Max	IS 3025 (Part-47)	<0.005
8	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	IS 3025 (Part-52)	<0.03
9	Total Chromium as Cr(mg/l), Max	IS 3025 (Part-52)	0.06
10	Copper as Cu (mg/l), Max	IS 3025 (Part-42)	<0.01
11	Zinc as Zn (mg/l), Max	IS 3025 (Part-49)	0.152
12	Nickel as Ni (mg/l), Max	IS 3025 (Part-54)	<0.01
13	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	IS 3025 (Part-43)	<0.001
14	Bio-assay test	IS 6582 (Part-1)	10% survival of fish after 96 hrs in 100% effluent

Samples Collected & Analysed by Mineral Engineering Services, Ballari


(M.R. DURGA PRASAD)
GOVT. ANALYST


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Table No. 2 b

WATER TEST REPORT

MES/W/TR/09/00

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location of Sampling : Effluent Treated Plant water
Date of sampling : 03.11.2022
Date of Report : 12.11.2022
Report No : MES/PMS/WR/74

Sl. No.	Parameters	Method of Testing	Result	General Standards For Effluent Discharge of Environmental Pollutants
			Effluent Treated Plant water	
1	Suspended Solids (mg/l), Max	IS 3025 (Part-17)	10	100
2	Dissolved Solids (inorganic) mg/l, Ma	APHA 21 st Edition	680	2100
3	pH	IS 3025 (Part-11)	7.58	6.0 to 8.5
4	Oil & Grease (mg/l), Max	IS 3025 (Part-39)	5	10
5	BOD [3 days at 27°C] (mg/l), Max	IS 3025 (Part-44)	5.22	30
6	COD (mg/l), Max	IS 3025 (Part-58)	28	250
7	Lead as Pb (mg/l), Max	IS 3025 (Part-47)	<0.005	0.1
8	Hexavalent Chromium as Cr ⁶⁺ (mg/l), Max	IS 3025 (Part-52)	<0.03	0.1
9	Total Chromium as Cr(mg/l), Max	IS 3025 (Part-52)	0.05	2.0
10	Copper as Cu (mg/l), Max	IS 3025 (Part-42)	<0.01	3.0
11	Zinc as Zn (mg/l), Max	IS 3025 (Part-49)	0.082	5.0
12	Nickel as Ni (mg/l), Max	IS 3025 (Part-54)	<0.01	3.0
13	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	IS 3025 (Part-43)	<0.001	1.0
14	Bio-assay test	IS 6582 (Part-1)	90% survival of fish after 96 hrs in 100% treated effluent	90% survival of fish after 96 hrs in 100% effluent

Samples Collected & Analysed by Mineral Engineering Services, Ballari


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Table No. 7 a

STACK MONITORING REPORT

MES/STK/FTR/03/00

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

Date of Monitoring : 02.11.2022

Date of Report : 12.11.2022

Report No : MES/PMS/STR/62

SI 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)	350	--
5	Velocity	(m/sec)	17.92	--
6	Quantity of Gases	(Nm ³ /hr)	765	--
7	Nox +HC	(g/Kw-Hr)	1.24	≤ 4.0
8	CO		0.764	≤ 3.5
9	PM		0.145	≤ 0.2


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Table No. 7 b

STACK MONITORING REPORT

MES/STK/FTR/03/00

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


Date of Monitoring : 02.11.2022

Date of Report : 12.11.2022

Report No : MES/PMS/STR/63

Sl No	Parameters	units			DG Limits 0.8MW to 75MW
			DG sets 2	DG sets 3	
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)	302	303	--
5	Velocity	(m/sec)	16.3	18.8	--
6	Quantity of Gases	(Nm ³ /hr)	5955	6855	--
7	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	135	184	710
8	NHC (as C) (at 15% O ₂),	mg/Nm ³	42	46	100
9	PM (at 15% O ₂),	mg/Nm ³	53	44	75
10	CO (at 15% O ₂),	mg/Nm ³	40	36	150


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Table No. 7 c

STACK MONITORING REPORT

MES/STK/FTR/03/00

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

Location : Stack of Dust Collectors

Date of Monitoring : 03.11.2022

Date of Report : 12.11.2022

Report No : MES/PMS/STR/64

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)	40
4	Velocity (m/sec)	11.89
5	Quantity of Gas flow (Nm ³ /hr)	16758
6	Sulphur Dioxide (SO ₂), mg/Nm ³	40.5
7	Nitrogen Dioxide (NO ₂), mg/Nm ³	16
8	Particulate Matter (PM) (mg/Nm ³)	24


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Table No. 6

NOISE LEVEL DATA

MES/NOISE/FR/02/00

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.							
Date of monitoring : 03.11.2022							
Date of Report : 12.11.2022							
Report No : MES/NRN/3							
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	43.0	58.2	68.0	38.0	51.3	55.0
N2	Near Gates No 1 outside	41.0	49.2	54.0	36.0	44.4	48.0
N3	RM Area	48.0	58.8	65.0	38.0	51.8	56.0
N4	DG Set Area	45.0	67.3	72.0	50.0	57.5	59.9
N5	Near Gates No 2 outside	41.0	55.3	62.4	41.0	46.1	57.0
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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