

22nd May 2025.

To
The Joint 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 EC Compliance Report – EC vide
F. No. J-11011/515/2010-IA II (I) dated 1st November 2011.

Dear Sir,

Please find our Half-Yearly EC compliance report (Oct'24 to Mar'25) to the conditions mentioned in our EC vide F. No. J-11011/515/2010-IA II (I) dated 1st November 2011.

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

Kindly acknowledge the receipt.

Enclosed:

1. Compliance report submitted through Parivesh Portal
2. Environment Monitoring reports
3. Acknowledgement from Parivesh Portal

With Regards
For Berger Paints India Ltd.


Venkata Apparao D
Factory Head

Copy to:

1. The Joint Chief Environmental Engineer, A.P. Pollution Control Board,
Zonal Office, Dr. YSR Paryavaran Bhavan, Road No.1, Labour Colony, V. R.
Colony Kurnool – 518 003.
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, APIIC Growth Centre, Thumakunta Village, Hindupur – 515 211 Dist. Sri Sathya Sai, 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

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/AP/IND/21749/1910
Compliance ID	113186160
Compliance Number(For Tracking)	EC/M/COMPLIANCE/113186160/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	22-05-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	ANDHRA PRADESH
RO/SRO Office Address	Integrated Regional Offices, Vijayawada

Note:- SMS and E-Mail has been sent to V Geroge Jenner, ANDHRA PRADESH with Notification to Project Proponent.

Half Yearly Compliance Report**2025****01 Jun(01 Oct - 31 Mar)****Acknowledgement**

Proposal Name	BERGER PAINTS INDIA LIMITED PLOT NO. 262, APIIC GROWTH CENTER THUMUKUNTA VILLAGE, HINDUPUR MANDAL SRI SATYA SAI DISTRICT, ANDHRA PRADESH - 515211		
Name of Entity / Corporate Office	BERGER PAINTS INDIA LIMITED		
Village(s)	TUMAKUNTA		
District	SRI SATHYA SAI		
Proposal No.	IA/AP/IND/21749/1910	Category	Industrial Projects - 3
Plot / Survey / Khasra No.	262	Sub-District	Hindupur
State	ANDHRA PRADESH	Entity's PAN	*****EQUIRED
MoEF File No.	J-11011/515/2010-IA II (I)	Entity name as per PAN	BERGER PAINTS INDIA LIMITED

Compliance Reporting Details**Reporting Year** 2025**Remarks (if any)****Reporting Period** 01 Jun(01 Oct - 31 Mar)**Details of Production and Project Area****Name of Entity / Corporate Office** BERGER PAINTS INDIA LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	19.3965	19.3965
Total	19.3965	19.3965

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Water based polymer emulsion	Others:MTPA	N/A	100000	0	
2	Water based distemper paints	Million Tons per Annum (MTPA)	N/A	48000	0	
3	Water based emulsion paints	Others:kilo litres per annum	N/A	272000	65705	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Only water Paint shall be manufactured. No solvent paint shall be manufactured without prior permission obtained from ministry.
PPs Submission: Complied Noted Being complied		Date: 04/05/2025
2	MISCELLANEOUS	No lead and chromium-based paint shall be manufactured.
PPs Submission: Being Complied Noted		Date: 04/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied Currently there are no boilers in our plant. For mixers and TSDs there is a dedicated dust extraction system.		Date: 04/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied Currently there are no boilers in our plant. Hence it is not applicable		Date: 04/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied Environmental monitoring being done. The applicable parameters are being displayed at main gate of the company for display to public.		Date: 04/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	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 conform to the limits stipulated by the APPCB.
PPs Submission: Being Complied Adequate dust extraction system and closed loop charging system are implemented to control the fugitive emissions		Date: 04/05/2025
7	Human Health Environment	VOCs detectors shall be installed in the work zone. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.
PPs Submission: Being Complied It is planned to install VOC meters in the currently plant in required locations.		Date: 04/05/2025
8	MISCELLANEOUS	For further control of fugitive emissions, following steps shall be followed: Closed handling system shall be provided for chemicals. Reflux condenser shall be provided over reactor. System of leak detection and repair of pump/pipeline based on preventive maintenance. 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. Cathodic protection shall be provided to the underground solvent storage tanks.
PPs Submission: Complied Raw material (Powders and liquids) are being charged through closed pipelines from storage area to process area. Preventive maintenance is being carried out. No acid is used in our process.		Date: 04/05/2025
9	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied DG sets are enclosed in acoustic enclosure. Separate stacks with adequate heights are available.		Date: 04/05/2025
10	Statutory compliance	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.
PPs Submission: Complied Noted. Permission letter available. No ground water is being used.		Date: 04/05/2025

11	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied Noted. Fully operational ETP with all necessary units is available. The treated water is used for container cleaning and toilet flushing.		Date: 04/05/2025
12	Statutory compliance	No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopted.
PPs Submission: Being Complied Effluents are not at all discharged.		Date: 04/05/2025
13	Risk Mitigation and Disaster Management	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.
PPs Submission: Complied No hazardous chemicals are being used in our plant. No solvents are being used.		Date: 04/05/2025
14	Statutory compliance	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.
PPs Submission: Complied HW authorization available. Fire detection system and fire protection system are available.		Date: 04/05/2025
15	Statutory compliance	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.
PPs Submission: Complied None of the raw materials used in our production fall under MSIHC rules.		Date: 04/05/2025
16	WASTE MANAGEMENT	The company shall undertake following waste minimization measures : Metering and control of quantities of active ingredients to minimize waste. Reuse of by – products from the process as raw materials or as raw material substitute in other processes. Use of automated filling to minimize spillage. Use of close feed system into batch reactors. Venting equipment through vapor recovery system Use of high-pressure hoses for equipment cleaning to reduce waste water generation.
PPs Submission: Complied All the powder and liquid ingredients will be taken form pneumatic conveying system with load cell and flow meter which automatically decreases wastage. There is no byproduct in our process. Automated filling lines are being used. Closed loop feeding system is implemented. No solvents are being used. High pressure jet pumps are being used for cleaning of equipment to reduce water consumption and thus reducing waste water generation.		Date: 04/05/2025

17	MISCELLANEOUS	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.
PPs Submission: Complied Spillage management plan is available and the same has been submitted to IRO Vijayawada		Date: 04/05/2025
18	Risk Mitigation and Disaster Management	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.
PPs Submission: Complied Adequate fire detection and fire protection systems are available.		Date: 04/05/2025
19	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied Medical check up being done and records of the same are being maintained.		Date: 04/05/2025
20	GREENBELT	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.
PPs Submission: Complied Adequate green belt area is being maintained which is 41.5 percent of the total site area.		Date: 04/05/2025
21	MISCELLANEOUS	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.
PPs Submission: Complied It is not applicable at this point of time.		Date: 04/05/2025
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.
PPs Submission: Complied Noted		Date: 04/05/2025
2	Statutory compliance	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.
PPs Submission: Complied Noted		Date: 04/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied Ambient air quality monitoring stations installed in plant		Date: 04/05/2025
4	Noise Monitoring & Prevention	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)
PPs Submission: Being Complied Noise monitoring being done.		Date: 04/05/2025
5	Human Health Environment	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.
PPs Submission: Being Complied Rain water harvesting project is under progress. Ground water recharge is not being done as it is prohibited.		Date: 04/05/2025
6	Human Health Environment	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.
PPs Submission: Complied Training being imparted to all employees on safe handling of chemicals and usage of appropriate PPE. Medical (pre employment and periodic) examination is also being carried out.		Date: 04/05/2025
7	Human Health Environment	Usage of Personnel protection equipment (PPEs) by all employees/workers shall be ensured.
PPs Submission: Complied Adequate PPE being provided to employees and usage is monitored and ensured.		Date: 04/05/2025
8	MISCELLANEOUS	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.
PPs Submission: Complied		Date:

Complied and the details have been submitted to IRO Vijayawada along with ATR during Feb 2024.		04/05/2025
9	Statutory compliance	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.
PPs Submission: Being Complied CSR activities are being undertaken. For the financial year 24-25, providing STEM labs for govt. schools have been planned with an approximate budget of 10 lakhs.		Date: 04/05/2025
10	Corporate Environmental Responsibility	The company shall undertake eco developmental measures including community welfare in the project area for the overall improvement of the environment.
PPs Submission: Complied Under CER, a mid day meal shed has been proposed to be constructed in one of the govt schools in Thumukunta area with an approximate budget of 15 lakhs.		Date: 04/05/2025
11	Human Health Environment	A separate environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
PPs Submission: Complied Separate environment management cell with laboratory is available and functional.		Date: 04/05/2025
12	Human Health Environment	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.
PPs Submission: Complied Separate funds are earmarked and they are never diverted for other purposes. The expenditure for environment matters for the FY 24-25 from October to March 2025 is as follows: Cost of ETP consumables for Effluent treatment : Rs. 289664 Cost of Electricity for ETP operation: Rs. 1212870 Cost of manpower : Rs. 390680 Cost of environment monitoring: Rs. 500000 Cost of waste disposal : Rs. 416925 Repair and maintenance cost : Rs. 90390 Capital expenditure towards Environment for the FY 24-25 : Rs. 2895000		Date: 22/05/2025
13	MISCELLANEOUS	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.
PPs Submission: Agreed to Comply No such representations received		Date: 04/05/2025
14	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as my e-mail) to the respective Regional Office of MoEF , the respective Zonal office of CPCB and the AP Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
PPs Submission: Agreed to Comply		Date:

Last six monthly compliance report submitted on 30 Nov 2024 (for the period of Oct 24 to Mar 25)		04/05/2025
15	Statutory compliance	The environmental statement for each financial year ending 31st March in Form - V as is mandated shall submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
PPs Submission: Being Complied Form - V has been sent to SPCB and displayed on website of the company. The same has been sent to IRO - Vijayawada on 30th September 2024.		Date: 04/05/2025
16	MISCELLANEOUS	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
PPs Submission: Complied Noted		Date: 04/05/2025
17	MISCELLANEOUS	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
PPs Submission: Complied The details have been submitted in ATR to IRO Vijayawada.		Date: 04/05/2025
Visit Remarks		
Last Site Visit Report Date:		25/04/2024
Additional Remarks:		Half yearly compliance report for the period of Oct 24 to Mar 25
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.		

ENVIRONMENTAL MONITORING REPORT

March, 2025

PROJECT : BERGER PAINTS INDIA LIMITED,
Industrial Park,
Thumakunta Village,
Hindupuram Mandal,
Anantapuram Dist,
Andhra Pradesh

ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)
(Accredited by NABL &, MOEF&CC Under E(P) 1986)
#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

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

Location : A1 - DG Set Back Side (250KVA & 1250KVA)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument used for sampling : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 1999-DTC-2011

Fine Particulate Sampler - Envirotech APM -550, Serial No. 730-DTC-2011

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 34.0°C

Relative Humidity : Min 30% Max 50%

Duration : 24 Hrs.

Issue Date : 28.03.2025

Date of Sampling	Report No	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
19.03.2025	P043525033	12	15	56	29	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Report No	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
19.03.2025	P043525033	0.13	<0.1	<0.5	<0.5	0.25	20
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar
ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

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

Location : A2 - Near ETP Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 1991-DTC-2011

Fine Particulate Sampler - Envirotech APM -550, Serial No. 145-DTA-2011

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 34.0°C

Relative Humidity : Min 30% Max 50%

Duration : 24 Hrs.

Issue Date : 28.03.2025

Date of Sampling	Report No	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
19.03.2025	P043625033	11	14	51	26	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Report No	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
19.03.2025	P043625033	0.11	<0.1	<0.5	<0.5	0.32	23
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No : N009825021

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

Location : A3 - Near Admin (U/G Water Tank)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 2218-DTI-2017

Fine Particulate Sampler - Envirotech APM -550, Serial No. 987-DTH-2020

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 34.0°C

Relative Humidity : Min 30% Max 50%

Duration : 24 Hrs.

Issue Date : 28.03.2025

Date of Sampling	Report No	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
19.03.2025	P043725033	9	11	61	34	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Report no	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
19.03.2025	P043725033	0.19	<0.1	<0.5	<0.5	0.36	24
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 1d

AMBIENT AIR QUALITY

Report No : N009925021

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

Location : A4 - Near Green Belt Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 2925-DTK-2020
Fine Particulate Sampler - Envirotech APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 34.0°C

Relative Humidity : Min 30% Max 50%

Duration : 24 Hrs.

Issue Date : 28.03.2025

Date of Sampling	Report No	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
19.03.2025	P043825033	12	18	53	28	<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	Report No	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
19.03.2025	P043825033	0.16	<0.1	<0.5	<0.5	0.42	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. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used : Envirotech APM 850/33 DTA 2018 & OVS 856 / 56-DTL-2011

Calibration due date of instrument : 24.03.2025

Date of Monitoring : 19.03.2025

Issue Date : 28.03.2025

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Report no		N002825034	N002925034	N003025034	N003125034
Sl No	Parameters	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	VOC	BDL	BDL	1.10	BDL
Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$					

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh. Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Instrument Used : Envirotech APM 850/33 DTA 2018 Calibration due date of instrument : 24.03.2025 Date of Monitoring : 19.03.2025 Issue Date : 28.03.2025						
Location	DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing	
Report No	P043525033	P043625033	P043725033	P043825033		
Sl No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001


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TEST REPORT

Table No. 2a

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)	
Nature of Sample		: Raw Effluent water	
Date of sample collection		: 19.03.2025	
Date of sample receipt		: 20.03.2025	
Report No		: N001925034	
Issue Date		: 28.03.2025	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	8.12	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	728	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	8	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	740	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	675.0	IS 3025 (P-44) 2023
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. 2b

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.		
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Nature of Sample		: Effluent Treated Plant water		
Date of sample collection		: 19.03.2025		
Date of sample receipt		: 20.03.2025		
Report No		: N002025034		
Issue Date		: 28.03.2025		
Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	8.50	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	2040	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	26.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	135	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	14.8	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% 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.2d

ETP SLUDGE

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

Sample Type : ETP Sludge

Locatuon of Sample : Near ETP Plant Area

Sample Collected by : Environmental Laboratory

Date of sample collection : 19.03.2025

Date of sample receipt ; 20.03.2025

Report No : ELME2192503

Issue Date : 28.03.2025

Sl. No.	PARAMETERS	Result
1	Calorific value as cal/gm	<5.0
2	Zinc as Zn (mg/Kg)	<2.5
3	Nickel as Ni (mg/Kg)	<5.0
4	Copper as Cu(mg/Kg)	<2.5
5	Lead as Pb (mg/Kg)	<2.5
6	Total Chromium as Cr(mg/Kg)	<0.03
7	Hexavalent Chromium as Cr ⁺⁶ (mg/Kg)	<5.0

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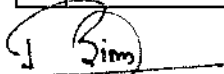
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TEST REPORT

Table No. 3a

Name of the Client	: M/s. Berger Paints India Limited,				
Name of the Project	: Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Particulars of sample collected	: DW1. Drinking water Base Block first floor				
Date of sample collection	: 19.03.2025				
Date of sample receipt	: 20.03.2025				
Report No	: N002225034				
Issue Date	: 28.03.2025				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Parameters	Results DW1	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.40	6.5 to 8.5	6.5 – 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	30.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS: 13428 Amm 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	<2	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as Cl2	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	12.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg),mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	<1	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29) 1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	14.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	6.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-62)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185 2016 RA 2021
42	Total Coliform /100ml	Not Detected			IS:15185.2016 RA 2021
43	Electrical Conductivity (µmhos/cm)	52.0	—	—	IS 3025 (P-14)

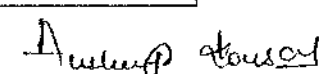
"END OF REPORT"



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TEST REPORT

Table No. 3b

Name of the Client	M/s. Berger Paints India Limited,				
Name of the Project	Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.				
Sample Collected by	Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Particulars of sample collected	DW2. Drinking water canteen parking area				
Date of sample collection	19.03.2025				
Date of sample receipt	20.03.2025				
Report No	N002325034				
Issue Date	28.03.2025				
Ref	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)				
Sl. No.	Parameters	Results DW2	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.27	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	84.0	500	2000	IS:3025 (P-15)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1986 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Amm 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	2.40	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as Cl2	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	24.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg),mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	3.50	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	4.00	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	36.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	10.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
42	Total Coliform /100ml)	Not Detected			IS:15185:2016 RA 2021
43	Electrical Conductivity (µmhos/cm)	155.0	--	--	IS:3025 (P-14)

"END OF REPORT"

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TEST REPORT

Table No. 3c

Name of the Client	M/s. Berger Paints India Limited,				
Name of the Project	Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.				
Sample Collected by	Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Particulars of sample collected	DW3. Drinking water Near Raw Material Area				
Date of sample collection	19.03.2025				
Date of sample receipt	20.03.2025				
Report No	N002425034				
Issue Date	28.03.2025				
Ref	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)				
Sl. No.	Parameters	Results DW3	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.80	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8)1984 RA 2017
5	Turbidity, NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids, mg/l	24.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-56)2003 RA2019
8	Ammonia (as total Ammonia -N), mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS), mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Ann 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca), mg/l	<2	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as Cl2	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	10.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Copper (as Cu), mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F), mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine, mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe), mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg), mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn), mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil, mg/l	<0.5	1.0	1.0	Clause 6 of IS:3025 (P-39) 2021
24	Nitrates (as NO ₃), mg/l	<1	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH), mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄), mg/l	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l	<0.01	0.05	0.05	IS:3025 (P-29) 1986 RA 2019
30	Total Alkalinity (as CaCO ₃), mg/l	10.0	200	600	IS:3025 (P-23) 1986 RA 2019
31	Total Hardness (as CaCO ₃), mg/l	6.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn), mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN), mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb), mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg), mg/l	<0.0005	0.001	0.001	USPEA 200 7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni), mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As), mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr), mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
42	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021
43	Electrical Conductivity (µmhos/cm)				IS:3025 (P-14)

"END OF REPORT"

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TEST REPORT

Table No. 4

NOISE LEVEL DATA

Report No : ELME2292503

Name of the Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used : Lutron SL-4001 Data Logger

Calibration due date of instrument : 16.07.2025

Date of sample collection : 19.03.2025

Date of sample receipt : 20.03.2025

Issue Date : 25.03.2025

Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	47.7	55.6	61.6	40.5	46.0	48.2
N2	Near Gate No 1 outside	40.8	50.6	55.4	35.0	43.6	48.3
N3	RMS Area	49.0	54.7	64.0	37.6	48.0	51.5
N4	DG Set Area at 1mtr distance	49.2	55.3	60.1	38.0	47.7	54.2
N5	Near Gate No 2 outside	44.4	54.6	61.7	41.0	50.8	56.0

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

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TEST REPORT

Table No. 5a

Stack Monitoring Report

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: DG set 1
Instrument used for sampling	: Emissions collected through stack sampler
Date of sample Collection	: 19.03.2025
Date of Sample Receipt	: 20.03.2025
Report No	: N002525034
Issue date	: 28.03.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	32
6	Stack Temperature (°C)	152
7	Velocity (m/s)	11.03
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	244
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-2014
12	Calibration done date	15.07.2025
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.087	≤ 4.0
2	CO		0.232	≤ 3.5
3	PM		0.020	≤ 0.2

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TEST REPORT

Table No. 5b

Stack Monitoring Report

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist., Andhra Pradesh.			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Stack ID	: DG set 2			
Instrument used for sampling	: Emissions collected through stack sampler			
Date of sample Collection	: 19.03.2025			
Date of Sample Receipt	: 20.03.2025			
Report No	: N002625034			
Issue date	: 28.03.2025			
STACK DETAILS				
1	Fuel Used	Diesel		
2	Capacity (KVA)	1250		
3	Stack height (M)	5		
4	Stack diameter (M)	0.38		
5	Ambient Temperature ($^{\circ}\text{C}$)	31		
6	Stack Temperature ($^{\circ}\text{C}$)	288		
7	Velocity (m/s)	11.82		
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	4294		
9	Sample Condition When Received	Satisfactory		
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equipment	86BTF12		
12	Calibration done date	15.07.2025		
13	Test Method	IS: 11255		
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	18.3	710
2	NHC (as C) (at 15% O_2),	mg/Nm^3	54.4	100
3	PM (at 15% O_2),	mg/Nm^3	53.0	75
4	CO (at 15% O_2),	mg/Nm^3	40.8	150

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TEST REPORT

Table No. 5c

Stack Monitoring Report

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: DG set 3
Instrument used for sampling	: Emissions collected through stack sampler
Date of sample Collection	: 19.03.2025
Date of Sample Receipt	: 20.03.2025
Report No	: N002725034
Issue date	: 28.03.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	30
6	Stack Temperature (°C)	340
7	Velocity (m/s)	13.49
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	4917
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-2014
12	Calibration done date	15.07.2025
13	Test Method	IS: 11255

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	15.6	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	45.4	100
3	PM (at 15% O ₂),	mg/Nm ³	56.0	75
4	CO (at 15% O ₂),	mg/Nm ³	33.3	150

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TEST REPORT

Table No. 5d

Stack Monitoring Report

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupur Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: Stack of Dust Collectors
instrument used for sampling	: Emissions collected through stack sampler
Date of sample Collection	: 20.03.2025
Date of Sample Receipt	: 21.03.2025
Report No	: N003525034
Issue date	: 28.03.2025

STACK DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature ($^{\circ}$ C)	32
5	Stack Temperature ($^{\circ}$ C)	66
6	Velocity (m/sec)	12.64
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	17818
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	86BTF12
11	Calibration done date	15.07.2025
12	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	38.1
2	NO _x as (NO ₂)	mg/Nm ³	15.3
3	Particulate Matter (PM)	mg/Nm ³	33.0

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TEST REPORT

Table No. 7

Illumination Survey

Report No : ELME232503

Mane of the Project : Berger Paints India Limited, Industrial Park,
Thumakunta village, Hindupur Mandal,
Anantapur Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services LLP)

Instrument used : HTC Lux Meter

Date of monitoring : 19.03.2025 Time: 7.40 pm to 8:50 pm

Issue Date : 28.03.2025

Ref Standard : ISO 8995 CIE S 008/E

Sl.No	Location	L1	L2	L3	L4	L5	Average illuminance level (Lux)	Limits illuminance level (Lux) Min
1	Admin Block	208	205	211	198	200	204.4	200
2	Engineering Stores	201	188	198	208	210	201.0	100
3	ETP Lab	311	292	309	322	308	308.4	300
4	RMS Area	199	201	191	210	214	203.0	300
5	QC Lab	298	299	305	318	298	303.6	300
6	Processing Area	258	300	311	310	322	300.2	300
7	Filling Area	288	293	310	318	320	305.8	300
8	PMS Area	263	318	320	318	308	305.4	300
9	Security Office	211	198	205	201	215	206.0	200

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TEST REPORT

Table No. 8

SOIL REPORT

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupur Mandal, Anantapur Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

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

Date of Samples : 19.03.2025

Date of Sample Receipt : 20.03.2025

Issue date : 28.03.2028

Location		1. Near ETP Plant Area	2. Near Green Belt Area	3. Near Scrap Yard	Method of Testing
Report No		N003225034	N003325034	N003425034	
SL. No.	PARAMETERS	Result			
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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ENVIRONMENTAL MONITORING REPORT

February, 2025

PROJECT : BERGER PAINTS INDIA LIMITED,
Industrial Park,
Thumakunta Village,
Hindupuram Mandal,
Anantapuram Dist,
Andhra Pradesh

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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No : N009625021

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Envirotech APM 460BL Serial No. 1999-DTC-2011

Envirotech APM -550, Serial No. 730-DTC-2011

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 16.0°C Max 20.0°C

Relative Humidity : Min 40% Max 88%

Duration : 24 Hrs.

Issue Date : 19.02.2025

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
03.02.2025	N/25/02/1-0096	14	19	61	32	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
03.02.2025	N/25/02/1-0096	0.18	<0.1	<0.5	<0.5	0.34	25
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No : N009725021

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

Location : A2 - Near ETP Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Envirotech APM 460BL Serial No. 1991-DTC-2011

Envirotech APM -550, Serial No. 145-DTA-2011

Calibration due date of Instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 16.0°C Max 20.0°C

Relative Humidity : Min 40% Max 88%

Duration : 24 Hrs.

Issue Date : 19.02.2025

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
03.02.2025	N/25/02/1-0097	11	17	56	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
03.02.2025	N/25/02/1-0097	0.22	<0.1	<0.5	<0.5	0.48	22
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No : N009825021

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Envirotech APM 460BL Serial No. 2218-DTI-2017

Envirotech APM -550, Serial No. 987-DTH-2020

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 16.0°C Max 20.0°C

Relative Humidity : Min 40% Max 88%

Duration : 24 Hrs.

Issue Date : 19.02.2025

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
03.02.2025	N/25/02/1-0098	9	14	54	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	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
03.02.2025	N/25/02/1-0098	0.12	<0.1	<0.5	<0.5	0.42	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. 1d

AMBIENT AIR QUALITY

Report No : N009925021

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

Location : A4 - Near Green Belt Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used : Envirotech APM 460BL Serial No. 2925-DTK-2020

Envirotech APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 16.0°C Max 20.0°C

Relative Humidity : Min 40% Max 88%

Duration : 24 Hrs.

Issue Date : 19.02.2025

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
03.02.2025	N/25/02/1-0099	7	12	51	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
03.02.2025	N/25/02/1-0099	0.23	<0.1	<0.5	<0.5	0.33	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

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY VOC TEST REPORT

Report No : N0310-031325023

Project : Berger Paints India Limited, Industrial Park,					
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.					
Sample Collected by : Environmental Laboratory					
(Unit of Mineral Engineering Services LLP)					
Instrument Used : Envirotech APM 850/33 DTA 2018 & OVS 856 / 56-DTL-2011					
Calibration due date of instrument : 24.03.2025					
Date of Monitoring : 03.02.2025					
Issue Date : 19.02.2025					
Location	WB manufacturing building	Raw Material 1st floor,	Tank yard	QC Lab	
Lab code	N/25/02/3-0310	N/25/02/3-0311	N/25/02/3-0312	N/25/02/3-0313	
Sl No	Parameters	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	VOC	BDL	BDL	1.10	BDL
Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$					

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY

HYDROCARBONS TEST REPORT

Report No : N0096-009925021

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

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services LLP)

Instrument Used : Envirotech APM 850/33 DTA 2018

Calibration due date of instrument : 24.03.2025

Date of Monitoring : 03.02.2025

Issue Date : 19.02.2025

Location		DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing
SI No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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TEST REPORT

Table No. 2a
Report No : N029425023

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature of Sample	: Raw Effluent water
Date of sample collection	: 03.02.2025
Date of sample receipt	: 04.02.2025
Lab Code	: N/25/02/3-0294
Issue Date	: 19.02.2025
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Sl. No.	Parameters	Result	Method of Testing
1	pH	8.13	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	620	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	10	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	688	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	60.0	IS 3025 (P-44) 2023
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. 2b
Report No : N029525023

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature of Sample	: Effluent Treated Plant water
Date of sample collection	: 03.02.2025
Date of sample receipt	: 04.02.2025
Lab Code	: N/25/02/3-0295
Issue Date	: 19.02.2025

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	8.27	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	2150	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	60.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	110	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	12.0	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% 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. 3a

Report No : N029825023

Name of the Client : M/s. Berger Paints India Limited,
 Name of the Project : Industrial Park, Thumakunta village,
 Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
 Particulars of sample collected : DW1. Drinking water Base Block first floor
 Date of sample collection : 03.02.2025
 Lab Code : N/25/02/3-0298
 Issue Date : 19.02.2025
 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.56	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	42.0	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	2.40	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	8.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<2	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	12.00	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	10.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

BINU MANI

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"END OF REPORT"

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TEST REPORT

Table No. 3b

Report No : N029925023

Name of the Client : M/s. Berger Paints India Limited,
 Name of the Project : Industrial Park, Thumakunta village,
 Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
 Particulars of sample collected : DW2. Drinking water canteen parking area
 Date of sample collection : 03.02.2025
 Lab Code : N/25/02/3-0299
 Issue Date : 19.02.2025
 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.76	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	140	—	—	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	76	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	5.61	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	26.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	1.9	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	2.8	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	3.2	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	24.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	22.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform (100ml)	Not Detected			IS:15185:2016 RA 2021

BINU MANI

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Govt. Analyst / Authorised Signatory

"END OF REPORT"

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TEST REPORT

Table No. 3c

Report No : N030025023

Name of the Client : M/s. Berger Paints India Limited,
Name of the Project : Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected : DW3. Drinking water Near Raw Material Area
Date of sample collection : 03.02.2025
Lab Code : N/25/02/3-0300
Issue Date : 19.02.2025
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.48	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	40.00	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<2.0	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	8.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	10.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	10.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

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"END OF REPORT"

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TEST REPORT

Table No. 4

NOISE LEVEL DATA

Report No : ELMES022501

Name of the Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used : Lutron SL-4001 Data Logger

Calibration due date of instrument : 16.07.2025

Date of sample collection : 03.02.2025

Issue Date : 19.02.2025

Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	45.2	53.5	62.0	40.5	46.4	50.0
N2	Near Gate No 1 outside	47.3	57.6	64.2	35.0	43.9	57.2
N3	RMS Area	41.2	53.6	59.2	37.6	48.0	52.2
N4	DG Set Area at 1mtr distance	44.8	57.2	64.5	38.0	49.4	57.3
N5	Near Gate No 2 outside	46.0	58.1	65.2	41.0	51.0	56.2

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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TEST REPORT

Table No. 5a

Stack Monitoring Report

Report No : N030125023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: DG set 1
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-14
Calibration due date of instrument	: 15.07.2025
Date of Sample Receipt	: 04.02.2025
Lab Code	: N/25/02/3-0301
Issue date	: 19.02.2025

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	30
6	Stack Temperature (°C)	148
7	Velocity (m/s)	11.05
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	246
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-2014
12	Calibration done on and due on	15.07.2025
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.100	≤ 4.0
2	CO		0.240	≤ 3.5
3	PM		0.020	≤ 0.2

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TEST REPORT

Table No. 5b

Stack Monitoring Report

Report No : N030225023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: DG set 2
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-14
Calibration due date of instrument	: 15.07.2025
Date of sample Collection	: 03.02.2025
Date of Sample Receipt	: 04.02.2025
Lab Code	: N/25/02/3-0302
Issue date	: 19.02.2025

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	30
6	Stack Temperature (°C)	280
7	Velocity (m/s)	11.66
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	4251
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-2014
12	Calibration done on and due on	15.07.2025
13	Test Method	IS: 11255

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	17.2	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	54.4	100
3	PM (at 15% O ₂),	mg/Nm ³	56.0	75
4	CO (at 15% O ₂),	mg/Nm ³	45.9	150

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TEST REPORT

Table No. 5c

Stack Monitoring Report

Report No : N030425023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: DG set 3
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-14
Calibration due date of instrument	: 15.07.2025
Date of sample Collection	: 03.02.2025
Date of Sample Receipt	: 04.02.2025
Lab Code	: N/25/02/3-0303
Issue date	: 19.02.2025

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature ($^{\circ}\text{C}$)	30
6	Stack Temperature ($^{\circ}\text{C}$)	342
7	Velocity (m/s)	14.14
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	5156
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-2014
12	Calibration done on and due on	15.07.2025
13	Test Method	IS: 11255

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	12.7	710
2	NHC (as C) (at 15% O_2),	mg/Nm^3	54.5	100
3	PM (at 15% O_2),	mg/Nm^3	52.0	75
4	CO (at 15% O_2),	mg/Nm^3	29.8	150

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TEST REPORT

Table No. 5d

Stack Monitoring Report

Report No : N031425023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID	: Stack of Dust Collectors
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-14
Calibration due date of instrument	: 15.07.2025
Date of sample Collection	: 04.02.2025
Date of Sample Receipt	: 04.02.2025
Lab Code	: N/25/02/3-0314
Issue date	: 19.02.2025

GENERAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature (°C)	30
5	Stack Temperature (°C)	66
6	Velocity (m/sec)	12.64
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	17817
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	15.07.2025
12	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	38.1
2	NO _x as (NO ₂)	mg/Nm ³	15.3
3	Particulate Matter (PM)	mg/Nm ³	33.0

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ENVIRONMENTAL MONITORING REPORT

January, 2025

PROJECT : BERGER PAINTS INDIA LIMITED,

**Industrial Park,
Thumakunta Village,
Hindupuram Mandal,
Anantapuram Dist,
Andhra Pradesh**

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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No : N000125013

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1999-DTC-2011

Envirotech APM -550, Serial No. 730-DTC-2011

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 14.0°C Max 29.0°C

Relative Humidity : Min 38% Max 85%

Duration : 24 Hrs.

Issue Date : 22.01.2025

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
06.01.2025	N/25/01/Q3-0001	13	17	58	30	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
06.01.2025	N/25/01/03-0001	0.25	<0.1	<0.5	<0.5	0.48	30
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No : N000225013

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

Location : A2 - Near ETP Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1991-DTC-2011

Envirotech APM -550, Serial No. 145-DTA-2011

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 14.0°C Max 29.0°C

Relative Humidity : Min 38% Max 85%

Duration : 24 Hrs.

Issue Date : 22.01.2025

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
06.01.2025	N/25/01/03-0002	11	15	63	33	<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
06.01.2025	N/25/01/03-0002	0.22	<0.1	<0.5	<0.5	0.35	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. 1c

AMBIENT AIR QUALITY

Report No : N000325013

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)							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)							
Instrument Used : Envirotech APM 460BL Serial No. 2218-DTI-2017 Envirotech APM -550, Serial No. 987-DTH-2020							
Calibration due date of instrument : 24.03.2025							
Barometric pressure : 705 mm of Hg							
Temperature : Min 14.0°C Max 29.0°C							
Relative Humidity : Min 38% Max 85%							
Duration : 24 Hrs.							
Issue Date : 22.01.2025							
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
06.01.2025	N/25/01/03-0003	9	11	54	29	<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
06.01.2025	N/25/01/03-0003	0.18	<0.1	<0.5	<0.5	0.25	22
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. 1d

AMBIENT AIR QUALITY

Report No : N000425013

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

Location : A4 - Near Green Belt Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 2925-DTK-2020
Envirotech APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 14.0°C Max 29.0°C

Relative Humidity : Min 38% Max 85%

Duration : 24 Hrs.

Issue Date : 22.01.2025

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
06.01.2025	N/25/01/03-0004	8	14	50	26	<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
06.01.2025	N/25/01/03-0004	0.26	<0.1	<0.5	<0.5	0.42	25
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. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N0104-010725012

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 850/33 DTA 2018 & OVS 856 / 56-DTL-2011

Calibration due date of instrument : 24.03.2025

Date of Monitoring : 06.01.2025

Issue Date : 22.01.2025

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Lab code		N/25/01/02-0104	N/25/01/02-0105	N/25/01/02-0106	N/25/01/02-0107
Sl No	Parameters	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	VOC	BDL	BDL	1.10	BDL

Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No :N0001-000425013

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

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 850/33 DTA 2018

Calibration due date of instrument : 24.03.2025

Date of Monitoring : 06.01.2025

Issue Date : 22.01.2025

Location		DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing
Sl No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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TEST REPORT

Table No. 2a

Report No.: N009425012

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)	
Nature of Sample		: Raw Effluent water	
Date of sample collection		: 06.01.2025	
Date of sample receipt		: 07.01.2025	
Lab Code		: N/25/01/02-0094	
Issue Date		: 22.01.2025	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I, - 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	8.06	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	650	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	8	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	680	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	52.0	IS 3025 (P-44) 2023
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. 2b

Report No : N009525012

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Nature of Sample	: Effluent Treated Plant water
Date of sample collection	: 06.01.2025
Date of sample receipt	: 07.01.2025
Lab Code	: N/25/01/02-0095
Issue Date	: 22.01.2025

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	8.20	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1950	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	40.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	90	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	10.5	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% 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. 4a

Report No : N009825012

Name of the Client	: M/s. Berger Paints India Limited,				
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)				
Particulars of sample collected	: DW1. Drinking water Base Block first floor				
Date of sample collection	: 06.01.2025				
Lab Code	: N/25/01/02-0098				
Issue Date	: 22.01.2025				
Ref	: IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)				
Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.07	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	24.0	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	25.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<2	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	10.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	1.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	8.00	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	8.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 4b

Report No : N009925012

Name of the Client	: M/s. Berger Paints India Limited,
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: DW2. Drinking water canteen parking area
Date of sample collection	: 06.01.2025
Lab Code	: N/25/01/02-0099
Issue Date	: 22.01.2025
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)	

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.85	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	95	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	50	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	4	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	20.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	1.9	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	1.5	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-27) Sec 1 2021
28	Sulphates (as SO ₄), mg/l, Max	2.5	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	20	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	18.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 4c

Report No : N010025012

Name of the Client	: M/s. Berger Paints India Limited,
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: DW3. Drinking water Near Raw Material Area
Date of sample collection	: 06.01.2025
Lab Code	: N/25/01/02-0100
Issue Date	: 22.01.2025
Ref :	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.68	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	44.00	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	24.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<2.0	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	9.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	1.10	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	6.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	8.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 5

NOISE LEVEL DATA

Report No : ELMES012501

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)							
Instrument Used : HTC SL-1352 Data Logger							
Calibration due date of instrument : 10.12.2025							
Date of sample collection : 06.01.2025							
Issue Date : 22.01.2025							
Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	46.0	53.4	58.0	40.5	45.4	49.0
N2	Near Gate No 1 outside	46.7	56.7	62.1	35.0	43.9	55.4
N3	RMS Area	40.7	54.3	60.8	39.0	48.3	51.5
N4	DG Set Area at 1mtr distance	45.9	55.3	61.5	38.0	49.2	57.0
N5	Near Gate No 2 outside	46.3	57.7	63.4	36.0	50.6	55.0
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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TEST REPORT

Table No. 6a

Stack Monitoring Report

Report No : N010125012

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 1
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 06.01.2025
Date of Sample Receipt	: 07.01.2025
Lab Code	: N/25/01/02-0101
Issue date	: 22.01.2025

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	142
7	Velocity (m/s)	11.09
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	241
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-2014
12	Calibration done on and due on	17.11.2025
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.100	≤ 4.0
2	CO		0.232	≤ 3.5
3	PM		0.014	≤ 0.2

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TEST REPORT

Table No. 6b

Stack Monitoring Report

Report No : N010225012

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 2
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 06.01.2025
Date of Sample Receipt	: 07.01.2025
Lab Code	: N/25/01/02-0102
Issue date	: 22.01.2025

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature ($^{\circ}\text{C}$)	28
6	Stack Temperature ($^{\circ}\text{C}$)	272
7	Velocity (m/s)	11.50
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	4222
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-2014
12	Calibration done on and due on	17.11.2025
13	Test Method	IS: 11255

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	17.1	710
2	NHC (as C) (at 15% O_2),	mg/Nm^3	43.2	100
3	PM (at 15% O_2),	mg/Nm^3	52.0	75
4	CO (at 15% O_2),	mg/Nm^3	39.7	150

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TEST REPORT

Table No. 6c

Stack Monitoring Report

Report No : N010325012

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 3
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 06.01.2025
Date of Sample Receipt	: 07.01.2025
Lab Code	: N/25/01/02-0103
Issue date	: 22.01.2025

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	330
7	Velocity (m/s)	14.12
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	5182
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-2014
12	Calibration done on and due on	17.11.2025
13	Test Method	IS: 11255

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	11.7	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	48.2	100
3	PM (at 15% O ₂),	mg/Nm ³	45.0	75
4	CO (at 15% O ₂),	mg/Nm ³	27.6	150

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TEST REPORT

Table No. 6d

Stack Monitoring Report

Report No : N011025012

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: Stack of Dust Collectors
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 07.01.2025
Date of Sample Receipt	: 07.01.2025
Lab Code	: N/25/01/02-0110
Issue date	: 27.01.2025

GENRAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	AmbientTemperature (°C)	28
5	Stack Temperature (°C)	62
6	Velocity (m/sec)	12.56
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	17758
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	Due on 17.11.2025
12	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	36.2
2	NO _x as (NO ₂)	mg/Nm ³	15.2
3	Particulate Matter (PM)	mg/Nm ³	28.0

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ENVIRONMENTAL MONITORING REPORT

December, 2024

PROJECT : BERGER PAINTS INDIA LIMITED,

**Industrial Park,
Thumakunta Village,
Hindupuram Mandal,
Anantapuram Dist,
Andhra Pradesh**

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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No : N000124124

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1999-DTC-2011

Envirotech APM -550, Serial No. 730-DTC-2011

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.12.2024

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
09.12.2024	N/24/12/4-0001	10	16	40	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
09.12.2024	N/24/12/4-0001	0.18	<0.1	<0.5	<0.5	0.33	28
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No : N000224124

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

Location : A2 - Near ETP Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1991-DTC-2011

Envirotech APM -550, Serial No. 145-DTA-2011

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.12.2024

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
09.12.2024	N/24/12/4-0002	13	18	59	32	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
09.12.2024	N/24/12/4-0002	0.26	<0.1	<0.5	<0.5	0.42	25
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No : N000324124

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 2218-DTI-2017

Envirotech APM -550, Serial No. 987-DTH-2020

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.12.2024

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
09.12.2024	N/24/12/4-0003	7	9	35	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
09.12.2024	N/24/12/4-0003	0.11	<0.1	<0.5	<0.5	0.23	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. 1d

AMBIENT AIR QUALITY

Report No : N000424124

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

Location : A4 - Near Green Belt Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 2925-DTK-2020

Envirotech APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.12.2024

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
09.12.2024	N/24/12/4-0004	11	13	55	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
09.12.2024	N/24/12/4-0004	0.12	<0.1	<0.5	<0.5	0.31	22
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N0332-33524123

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 850/33 DTA 2018 & OVS 856 / 56-DTL-2011

Calibration due date of instrument: 24.03.2025

Date of Monitoring : 09.12.2024

Issue Date : 25.12.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Lab code		N/24/12/3-0332	N/24/12/3-0333	N/24/12/3-0334	N/24/12/3-0335
Sl No	Parameters	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	VOC	BDL	BDL	1.08	BDL

Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N0001-000424124

Project : Berger Paints India Limited, Industrial Park,						
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Instrument Used : Envirotech APM 850/33 DTA 2018						
Calibration due date of instrument: 24.03.2025						
Date of Monitoring : 09.12.2024						
Issue Date : 25.12.2024						
Location	DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing	
Sl No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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TEST REPORT

Table No. 2a

Report No : N031724123

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)	
Location of Sampling		: Raw Effluent water	
Date of sample collection		: 09.12.2024	
Date of sample receipt		: 10.12.2024	
Lab Code		: N/24/12/3-0317	
Issue Date		: 25.12.2024	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	8.04	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<1.0	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1780	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	168	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	720	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	56.0	IS 3025 (P-44) 2023
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. 2b

Report No : N031824123

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Location of Sampling	: Effluent Treated Plant water
Date of sample collection	: 09.12.2024
Date of sample receipt	: 10.12.2024
Lab Code	: N/24/12/3-0318
Issue Date	: 25.12.2024

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	8.15	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1500	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	12.5	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	96	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	11.7	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% 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. 4a

Report No : N032024123

Name of the Client	: M/s. Berger Paints India Limited,
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: DW1. Drinking water Base Block first floor
Date of sample collection	: 09.12.2024
Lab Code	: N/24/12/3-0320
Issue Date	: 25.12.2024
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)	

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.60	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	40.0	—	—	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<2.0	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l), mg/l, Max	12.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, *Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	<1.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	8.00	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	6.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 4b

Report No : N032124123

Name of the Client		: M/s. Berger Paints India Limited,			
Name of the Project		: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)			
Particulars of sample collected		: DW2. Drinking water canteen parking area			
Date of sample collection		: 09.12.2024			
Lab Code		: N/24/12/3-0321			
Issue Date		: 25.12.2024			
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.93	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	110	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	60	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	2.4	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	17.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe),mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg)mg/l, Max	1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	2.8	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄),mg/l, Max	3.62	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃) mg/l, Max	22	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃),mg/l,Max	10.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml)	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 4c

Report No : N032224123

Name of the Client	: M/s. Berger Paints India Limited,
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: DW3. Drinking water Raw Material Area
Date of sample collection	: 09.12.2024
Lab Code	: N/24/12/3-0322
Issue Date	: 25.12.2024
Ref	: IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.55	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	<0.1	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	38.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	1.60	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	9.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl2, Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃) mg/l, Max	8.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	6.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 5

NOISE LEVEL DATA

Report No : ELMES042412

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

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2025

Date of sample collection : 09.12.2024

Issue Date : 25.12.2024

Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	53.2	64.2	70.1	41.0	50.4	56.0
N2	Near Gate No 1 outside	44.5	53.9	61.8	35.4	43.9	53.7
N3	RMS Area	40.7	51.2	60.8	39.0	50.5	55.0
N4	DG Set Area at 1mtr distance	44.1	51.3	57.8	37.0	46.3	50.0
N5	Near Gate No 2 outside	47.3	55.9	63.2	36.0	50.4	54.3

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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TEST REPORT

Table No. 6a

Stack Monitoring Report

Report No : N032324123

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 1
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 09.12.2024
Date of Sample Receipt	: 10.12.2024
Lab Code	: N/24/12/3-0323
Issue date	: 25.12.2024

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	133
7	Velocity (m/s)	11.08
8	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	247
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-2014
12	Calibration done on and due on	17.11.2025
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.095	≤ 4.0
2	CO		0.230	≤ 3.5
3	PM		0.018	≤ 0.2

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TEST REPORT

Table No. 6b

Stack Monitoring Report

Report No : N032424123

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 2
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 09.12.2024
Date of Sample Receipt	: 10.12.2024
Lab Code	: N/24/12/3-0324
Issue date	: 25.12.2024

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	266
7	Velocity (m/s)	11.60
8	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	4258
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-2014
12	Calibration done on and due on	17.11.2025
13	Test Method	IS: 11255

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	28.7	710
2	NHC (as C) (at 15% O ₂),	mg/Nm³	46.4	100
3	PM (at 15% O ₂),	mg/Nm³	46.0	75
4	CO (at 15% O ₂),	mg/Nm³	33.4	150

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TEST REPORT

Table No. 6c

Stack Monitoring Report

Report No : N032524123

Name of the industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 3
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 09.12.2024
Date of Sample Receipt	: 10.12.2024
Lab Code	: N/24/12/3-0325
Issue date	: 25.12.2024

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	310
7	Velocity (m/s)	13.91
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	5108
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-2014
12	Calibration done on and due on	17.11.2025
13	Test Method	IS: 11255

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	33.3	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	51.1	100
3	PM (at 15% O ₂),	mg/Nm ³	49.0	75
4	CO (at 15% O ₂),	mg/Nm ³	31.8	150

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TEST REPORT

Table No. 6d

Stack Monitoring Report

Report No : N033624123

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: Stack of Dust Collectors
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 17.11.2025
Date of sample Collection	: 10.12.2024
Date of Sample Receipt	: 10.12.2024
Lab Code	: N/24/12/3-0336
Issue date	: 25.12.2024

GENRAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature (°C)	28
5	Stack Temperature (°C)	55
6	Velocity (m/sec)	12.42
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	17507
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	Due on 17.11.2025
12	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	38.2
2	NO _x as (NO ₂)	mg/Nm ³	14.1
3	Particulate Matter (PM)	mg/Nm ³	23.0

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ENVIRONMENTAL MONITORING REPORT

November, 2024

PROJECT : **BERGER PAINTS INDIA LIMITED,**
Industrial Park,
Thumakunta Village,
Hindupuram Mandal,
Anantapuram Dist,
Andhra Pradesh

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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No : N000124114

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1999-DTC-2011

Envirotech APM -550, Serial No. 730-DTC-2011

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.11.2024

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
11.11.2024	N/24/11/4-0001	14	18	58	33	<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
11.11.2024	N/24/11/4-0001	0.25	<0.1	<0.5	<0.5	0.45	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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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No : N000224114

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

Location : A2 - Near ETP Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1991-DTC-2011

Envirotech APM -550, Serial No. 145-DTA-2011

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.11.2024

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
11.11.2024	N/24/11/4-0002	12	13	53	30	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
11.11.2024	N/24/11/4-0002	0.18	<0.1	<0.5	<0.5	0.38	26
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No : N000324114

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)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Instrument Used	: Envirotech APM 460BL Serial No. 2218-DTI-2017 Envirotech APM -550, Serial No. 987-DTH-2020
Calibration due date of instrument	: 18.11.2024
Barometric pressure	: 705 mm of Hg
Temperature	: Min 18.0°C Max 28.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Issue Date	: 25.11.2024

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
11.11.2024	N/24/11/4-0003	9	12	49	26	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
11.11.2024	N/24/11/4-0003	0.13	<0.1	<0.5	<0.5	0.28	23
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1d

AMBIENT AIR QUALITY

Report No : N000424114

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

Location : A4 - Near Green Belt Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 2925-DTK-2020
Envirotech.APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.11.2024

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
11.11.2024	N/24/11/4-0004	11	14	37	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	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
11.11.2024	N/24/11/4-0004	0.25	<0.1	<0.5	<0.5	0.33	20
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N0290-029324113

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 850/33 DTA 2018 & OVS 856 / 56-DTL-2011

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 11.11.2024

Issue Date : 25.11.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Lab code		N/24/11/3-0290	N/24/11/3-0291	N/24/11/3-0292	N/24/11/3-0293
Sl No	Parameters	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	VOC	BDL	BDL	1.05	BDL

Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY

HYDROCARBONS TEST REPORT

Report No :N0001-000424114

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

**Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services)**

Instrument Used : Envirotech APM 850/33 DTA 2018

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 11.11.2024

Issue Date : 25.11.2024

Location		DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing
Sl No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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ENVIRONMENTAL LABORATORY

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TEST REPORT

Table No. 2a

Report No : ED013124113

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)	
Location of Sampling		: Raw Effluent water	
Date of sample collection		: 11.11.2024	
Date of sample receipt		: 15.11.2024	
Lab Code		: ED/24/11/3-0131	
Issue Date		: 23.11.2024	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	7.68	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<1.0	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1860	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	185	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	846	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	78.0	IS 3025 (P-44) 2023
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT ""

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 2b

Report No : ED013224113

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Location of Sampling	: Effluent Treated Plant water
Date of sample collection	: 11.11.2024
Date of sample receipt	: 15.11.2024
Lab Code	: ED/24/11/3-0132
Issue Date	: 23.11.2024

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.36	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1790	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	25.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	110	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27 ⁰ C] (mg/l), Max	18.5	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% 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 ***

Arshiya Rousar
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TEST REPORT

Table No. 4a

Report No : ED013424113

Name of the Client : M/s. Berger Paints India Limited,
Name of the Project : Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected : DW1. Drinking water Base Block first floor
Date of sample collection : 11.11.2024
Lab Code : ED/24/11/3-0134
Issue Date : 23.11.2024
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.78	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	35.0	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	24.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<2.0	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	11.25	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	2.86	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	10.35	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	8.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	0.01	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

M. SACHIN RAJU

T.M. - Chemical

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TEST REPORT

Table No. 4b

Report No : ED013524113

Name of the Client : M/s. Berger Paints India Limited,
 Name of the Project : Industrial Park, Thumakunta village,
 Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Particulars of sample collected : DW2. Drinking water canteen parking area
 Date of sample collection : 11.11.2024
 Lab Code : ED/24/11/3-0135
 Issue Date : 23.11.2024
 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.21	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	181	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	110	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	4	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	16.14	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.2	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	2.43	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	4.53	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	31.05	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	20.0	200	600	IS:3025 (P-21): 2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 4c

Report No : ED013624113

Name of the Client : M/s. Berger Paints India Limited,
Name of the Project : Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected : DW3. Drinking water Raw Material Area
Date of sample collection : 11.11.2024
Lab Code : ED/24/11/3-0136
Issue Date : 23.11.2024
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.04	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	36.00	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	20.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	4.00	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	6.35	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.10	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	4.86	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	0.84	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	<1.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	10.4	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	30.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

BINU MANI

T.M. - Microbiology

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M. SACHIN RAJU

T.M. - Chemical

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TEST REPORT

Table No. 5

NOISE LEVEL DATA

Report No : ELMES042411

Name of the Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2024

Date of sample collection : 11.11.2024

Issue Date : 25.11.2024

Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	55.2	63.0	69.1	41.0	51.2	58.0
N2	Near Gate No 1 outside	39.7	59.0	62.0	35.4	47.5	55.3
N3	RMS Area	41.3	61.8	67.2	47.2	54.6	60.0
N4	DG Set Area at 1mtr distance	43.8	53.2	59.9	37.0	46.9	52.0
N5	Near Gate No 2 outside	57.2	62.5	65.2	38.0	50.9	56.0

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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TEST REPORT

Table No. 6a

Stack Monitoring Report

Report No : N028724113

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

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services)

Stack ID : DG set 1

Instrument Used : Vayubhodhak /VSS-1 S. No.338-DTH-2014

Calibration due date of instrument : 18.11.2024

Date of sample Collection : 11.11.2024

Date of Sample Receipt : 12.11.2024

Lab Code : N/24/11/3-0287

Issue date : 25.11.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	140
7	Velocity (m/s)	10.81
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	237
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-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.10	≤ 4.0
2	CO		0.22	≤ 3.5
3	PM		0.02	≤ 0.2

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TEST REPORT

Table No. 6b

Stack Monitoring Report

Report No : N028824113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 2
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 18.11.2024
Date of sample Collection	: 11.11.2024
Date of Sample Receipt	: 12.11.2024
Lab Code	: N/24/11/3-0288
Issue date	: 25.11.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	280
7	Velocity (m/s)	15.04
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	5521
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-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

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	30.4	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	53.3	100
3	PM (at 15% O ₂),	mg/Nm ³	52.0	75
4	CO (at 15% O ₂),	mg/Nm ³	38.3	150

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TEST REPORT

Table No. 6c

Stack Monitoring Report

Report No : N028924113

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

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services)

Stack ID : DG set 3

Instrument Used : Vayubhodhak /VSS-1 S. No.338-DTH-2014

Calibration due date of instrument : 18.11.2024

Date of sample Collection : 11.11.2024

Date of Sample Receipt : 12.11.2024

Lab Code : N/24/11/3-0289

Issue date : 25.11.2024

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	28
6	Stack Temperature (°C)	340
7	Velocity (m/s)	17.09
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6271
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-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

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	37.1	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	52.2	100
3	PM (at 15% O ₂),	mg/Nm ³	54.0	75
4	CO (at 15% O ₂),	mg/Nm ³	32.4	150

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TEST REPORT

Table No. 6d

Stack Monitoring Report

Report No : N029424113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: Stack of Dust Collectors
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 18.11.2024
Date of sample Collection	: 12.11.2024
Date of Sample Receipt	: 12.11.2024
Lab Code	: N/24/11/3-0294
Issue date	: 25.11.2024

GENERAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature (°C)	28
5	Stack Temperature (°C)	58
6	Velocity (m/sec)	13.66
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	19257
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

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	42.3
2	NO _x as (NO ₂)	mg/Nm ³	14.8
3	Particulate Matter (PM)	mg/Nm ³	20.0

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ENVIRONMENTAL MONITORING REPORT

October, 2024

PROJECT : BERGER PAINTS INDIA LIMITED,

**Industrial Park,
Thumakunta Village,
Hindupuram Mandal,
Anantapuram Dist,
Andhra Pradesh**

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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No : N003224104

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)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Instrument Used	: Envirotech APM 460BL Serial No. 1999-DTC-2011 Envirotech APM -550, Serial No. 730-DTC-2011
Calibration due date of instrument	: 18.11.2024
Barometric pressure	: 705 mm of Hg
Temperature	: Min 21.0°C Max 25.0°C
Relative Humidity	: Min 40% Max 74%
Duration	: 24 Hrs.
Issue Date	: 25.10.2024

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
14.10.2024	N/24/10/4-0031	13	18	58	32	<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
14.10.2024	N/24/10/4-0031	0.28	<0.1	<0.5	<0.5	0.48	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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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No : N003224104

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

Location : A2 - Near ETP Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 1991-DTC-2011

Envirotech APM -550, Serial No. 145-DTA-2011

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 25.0°C

Relative Humidity : Min 40% Max 74%

Duration : 24 Hrs.

Issue Date : 25.10.2024

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
14.10.2024	N/24/10/4-0032	11	15	51	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
14.10.2024	N/24/10/4-0032	0.22	<0.1	<0.5	<0.5	0.34	32
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. 1c

AMBIENT AIR QUALITY

Report No : N003324104

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)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 2218-DTI-2017

Envirotech APM -550, Serial No. 987-DTH-2020

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 25.0°C

Relative Humidity : Min 40% Max 74%

Duration : 24 Hrs.

Issue Date : 25.10.2024

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
14.10.2024	N/24/10/4-0033	10	13	54	28	<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
14.10.2024	N/24/10/4-0033	0.26	<0.1	<0.5	<0.5	0.41	25
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. 1d

AMBIENT AIR QUALITY

Report No : N003424104

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

Location : A4 - Near Green Belt Area

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 460BL Serial No. 2925-DTK-2020

Envirotech APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 25.0°C

Relative Humidity : Min 40% Max 74%

Duration : 24 Hrs.

Issue Date : 25.10.2024

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
14.10.2024	N/24/10/4-0034	7	9	45	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
14.10.2024	N/24/10/4-0034	0.12	<0.1	<0.5	<0.5	0.26	22
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. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N0205-020824103

Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 850/33 DTA 2018 & OVS 856 / 56-DTL-2011

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 14.10.2024

Issue Date : 25.10.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Lab code		N/24/10/3-0205	N/24/10/3-0206	N/24/10/3-0207	N/24/10/3-0208
SI No	Parameters	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	VOC	BDL	BDL	1.03	BDL

Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY

HYDROCARBONS TEST REPORT

Report No :N0032-03424104

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

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services)

Instrument Used : Envirotech APM 850/33 DTA 2018

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 14.10.2024

Issue Date : 25.10.2024

Location		DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing
Sl No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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TEST REPORT

Table No. 2a

Report No : N019624103

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Location of Sampling	: Raw Effluent water
Date of sample collection	: 14.10.2024
Date of sample receipt	: 16.10.2024
Lab Code	: N/24/10/3-0196
Issue Date	: 25.10.2024
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Sl. No.	Parameters	Result	Method of Testing
1	pH	8.52	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	3550	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	220	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	IS 3025 (P-2) 2019
7	Copper as Cu (mg/l), Max	<0.05	IS 3025 (P-2) 2019
8	Zinc as Zn (mg/l), Max	<0.05	IS 3025 (P-2) 2019
9	Nickel as Ni (mg/l), Max	<0.05	IS 3025 (P-2) 2019
10	Total Chromium as Cr(mg/l), Max	<0.01	IS 3025 (P-2) 2019
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	700	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	400.0	IS 3025 (P-44) 2023
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. 2b

Report No : N019724103

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.		
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)		
Location of Sampling		: Effluent Treated Plant water		
Date of sample collection		: 14.10.2024		
Date of sample receipt		: 16.10.2024		
Lab Code		: N/24/10/3-0197		
Issue Date		: 25.10.2024		
Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	8.24	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	580	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	7.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	IS 3025 (P-2) 2019
7	Copper as Cu (mg/l), Max	<0.05	3.0	IS 3025 (P-2) 2019
8	Zinc as Zn (mg/l), Max	<0.05	5.0	IS 3025 (P-2) 2019
9	Nickel as Ni (mg/l), Max	<0.05	3.0	IS 3025 (P-2) 2019
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	IS 3025 (P-2) 2019
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	96	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	8.7	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% 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. 4a
Report No : N019924103

Name of the Client	: M/s. Berger Paints India Limited,				
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)				
Particulars of sample collected	: DW1. Drinking water Base Block first floor				
Date of sample collection	: 14.10.2024				
Lab Code	: N/24/10/3-0199				
Issue Date	: 25.10.2024				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.00	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity, NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	32.0	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	18.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<1.0	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	9.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<1.0	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1.0	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	<1.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	6.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	4.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 4b
Report No : N020024103

Name of the Client : M/s. Berger Paints India Limited,
Name of the Project : Industrial Park, Thumakunta village,
Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected : DW2. Drinking water canteen parking area
Date of sample collection : 14.10.2024
Lab Code : N/24/10/3-0200
Issue Date : 25.10.2024
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.02	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity, NTU, Max	1.2	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	90	—	—	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	50	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	<1.0	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	14	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe), mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	1.8	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2022
25	Selenium (as Se), mg/l	<0.0005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄), mg/l, Max	10	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃), mg/l, Max	26	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	4.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn), mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg), mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 4c

Report No : N020124103

Name of the Client	: M/s. Berger Paints India Limited,				
Name of the Project	: Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)				
Particulars of sample collected	: DW3. Drinking water Raw Material Area				
Date of sample collection	: 14.10.2024				
Lab Code	: N/24/10/3-0201				
Issue Date	: 25.10.2024				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Parameters	Results	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.77	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	40.00	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	<1.0	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	8.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as Cl ₂ , Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe),mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg)mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	<1.0	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄),mg/l, Max	<1.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃) mg/l, Max	10.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃),mg/l,Max	4.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml)	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 5

NOISE LEVEL DATA

Report No : ELMES032410

Name of the Project : Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used : HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2024

Date of sample collection : 14.10.2024

Issue Date : 25.10.2024

Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	42.0	61.9	70.0	45.0	49.7	57.0
N2	Near Gate No 1 outside	40.8	57.5	61.3	36.0	45.6	54.0
N3	RMS Area	40.0	61.4	71.5	41.5	53.2	58.0
N4	DG Set Area at 1mtr distance	44.0	61.7	66.5	43.0	55.7	59.0
N5	Near Gate No 2 outside	42.0	66.3	73.2	41.5	49.5	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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TEST REPORT

Table No. 6a

Stack Monitoring Report

Report No : N020224103

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 1
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 18.11.2024
Date of sample Collection	: 14.10.2024
Date of Sample Receipt	: 16.10.2024
Lab Code	: N/24/10/3-0202
Issue date	: 25.10.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	21
6	Stack Temperature (°C)	151
7	Velocity (m/s)	17.36
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	387
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-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.15	≤ 4.0
2	CO		0.36	≤ 3.5
3	PM		0.03	≤ 0.2

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TEST REPORT

Table No. 6b

Stack Monitoring Report

Report No : N020324103

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 2
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 18.11.2024
Date of sample Collection	: 14.10.2024
Date of Sample Receipt	: 16.10.2024
Lab Code	: N/24/10/3-0203
Issue date	: 25.10.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature ($^{\circ}\text{C}$)	21
6	Stack Temperature ($^{\circ}\text{C}$)	338
7	Velocity (m/s)	17.04
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	6317
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-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

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	29.9	710
2	NHC (as C) (at 15% O_2),	mg/Nm^3	52.3	100
3	PM (at 15% O_2),	mg/Nm^3	49.0	75
4	CO (at 15% O_2),	mg/Nm^3	35.7	150

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ENVIRONMENTAL LABORATORY

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TEST REPORT

Table No. 7c

Stack Monitoring Report

Report No : N020424103

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: DG set 3
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 18.11.2024
Date of sample Collection	: 14.10.2024
Date of Sample Receipt	: 16.10.2024
Lab Code	: N/24/10/3-0204
Issue date	: 25.10.2024

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	21
6	Stack Temperature (°C)	360
7	Velocity (m/s)	18.25
8	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	6767
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-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

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	48.2	710
2	NHC (as C) (at 15% O ₂),	mg/Nm³	51.0	100
3	PM (at 15% O ₂),	mg/Nm³	48.0	75
4	CO (at 15% O ₂),	mg/Nm³	38.9	150

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TEST REPORT

Table No. 6d

Stack Monitoring Report

Report No. : N020924103

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Stack ID	: Stack of Dust Collectors
Instrument Used	: Vayubhodhak /VSS-1 S. No.338-DTH-2014
Calibration due date of instrument	: 18.11.2024
Date of sample Collection	: 15.10.2024
Date of Sample Receipt	: 16.10.2024
Lab Code	: N/24/10/3-0209
Issue date	: 25.10.2024

GENRAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	AmbientTemperature (°C)	25
5	Stack Temperature (°C)	51
6	Velocity (m/sec)	13.50
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	19029
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

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	40.2
2	NO _x as (NO ₂)	mg/Nm ³	13.5
3	Particulate Matter (PM)	mg/Nm ³	16.0

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