



30th November 2024.

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 Compliance Report.

Dear Sir,

Please find our Half-Yearly report (Apr'24 to Sep'24) on compliance to EC conditions as required.

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

Kindly acknowledge the receipt.

With Regards,
For Berger Paints India Ltd


Venkata Apparao. D
Factory Head

Copy to:

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

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

BERGER PAINTS INDIA LIMITED

Plot No. 262, 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	111718256
Compliance Number(For Tracking)	EC/M/COMPLIANCE/111718256/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	30-11-2024
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.	



पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

Ministry of Environment, Forest and Climate Change



Back

View Half Yearly Compliance Report at Project Proponent

Proposal Details

Proposal No

IA/AP/IND/21749/1910

Category

Industrial Projects - 3

Name of Project

BERGER PAINTS INDIA LIMITED PLOT NO. 262, APIIC GROWTH CENTER THUMUKUNTA VILLAGE, HINDUPUR MANDAL SRI SATYA SAI DISTRICT, ANDHRA PRADESH - 515211

Plot / Survey/ Khasra No.

262

Village(s)

TUMAKUNTA

Sub-District(s)

Hindupur

State

ANDHRA PRADESH

District

SRI SATHYA SAI

MoEF File No

J-11011/515/2010-IA II (I)

Name of the Entity/

Corporate Office

BERGER PAINTS INDIA LIMITED

Entity's PAN

*****0976E

Entity Name as per PAN

BERGER PAINTS INDIA LIMITED

Entity details mentioned above is correct ?

Agree

Covering Letter

Covering Letter

[Click to View](#)

Compliance Reporting Details

Reporting Year

2024

Reporting Period

01 Dec(01 Apr - 30 Sep)

Remark(if any)

Details of Production and Project Area

Date of Commencement of Project/Activity

01-09-2014

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

Land Documents

NA

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	Water based distemper paints	Others:MTPA	48000			null	0
2	Water based polymer emulsion	Others:MTPA	100000			null	0

3	Water based emulsion paints	Others:kilo litres per annum	272000			null	65262
---	-----------------------------	------------------------------	--------	--	--	------	-------

Conditions

Specific Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks / Reason and Supporting Documents	
1	MISCELLANEOUS	Only water Paint shall be manufactured. No solvent paint shall be manufactured without prior permission obtained from ministry.	PPs Submission	Noted Being Complied 30-11-2024 Attachment:NA
2	MISCELLANEOUS	No lead and chromium-based paint shall be manufactured.	PPs Submission	Noted Being Complied 30-11-2024 Attachment:NA
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	Currently there are no boilers in our plant. For Mixers and TSDs there is a dedicated dust extraction system. Being Complied 30-11-2024 Attachment:NA

4	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO ₂ , NO _x , CO and HC) and particulate matter from boiler stack shall confirm to the norms prescribed by the CPCB/AP pollution Control Board (APPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measure are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	PPs Submission	Currently there are no boilers in our plant. Hence it is not applicable. Complied 30-11-2024 Attachment:NA
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	PPs Submission	Environmental monitoring being done. The applicable parameters are being displayed at main gate of the company for display to public. Being Complied 30-11-2024 Attachment:NA

		<p>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.</p>		
6	AIR QUALITY MONITORING AND PRESERVATION	<p>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</p>	PPs Submission	<p>Adequate dust extraction system and closed loop charging system are implemented to control the fugitive emissions. Being Complied 30-11-2024 Attachment:NA</p>

		storage area etc. shall be regularly monitored. The emission shall confirm to the limits stipulated by the APPCB.		
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	It is not applicable for our case sine we are not using any solvent. However, we use portable VOC meter which is used to measure VOC whenever required. Being Complied 30-11-2024 Attachment:NA
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 form storage tanks to reactor through closed pipeline. Storage tanks shall be vented through trap receiver and condenser	PPs Submission	Raw material (powder and liquids) are being charged through closed pipelines from storage area to process area. There are no reactors. Preventive maintenance is being carried out. No acid is used in our process. Complied 30-11-2024 Attachment:NA

		operated on chilled water. Cathodic protection shall be provided to the underground solvent storage tanks.		
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	DG sets are enclosed in acoustic enclosure. Separate stacks with adequate height are available. Complied 30-11-2024 Attachment:NA
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	Noted. Permission letter is available. No ground water is being used. Complied 30-11-2024 Attachment:NA
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	PPs Submission	Noted. Fully operational ETP with all necessary unit is available. The treated water is used for container cleaning, toilet flushing. Complied 30-11-2024 Attachment:NA

		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.		
12	Statutory compliance	No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopted.	PPs Submission	Effluents are not at all discharged Being Complied 30-11-2024 Attachment:NA
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	No hazardous chemicals are being used in our plant. No solvents are being used Complied 30-11-2024 Attachment:NA
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	PPs Submission	HW authorization available. Fire detection system and fire protection systems are available. Complied 30-11-2024 Attachment:NA

		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.		
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	None of the raw materials used in our production process fall under MSIHC rules. Complied 30-11-2024 Attachment:NA
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	PPs Submission	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 by-product 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

		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.		equipment to reduce water consumption and thus reducing waste water generation. Complied 30-11-2024 Attachment:NA
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	Spillage management plan is available and the same has been submitted to IRO Vijayawada Complied 30-11-2024 Attachment:NA
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	PPs Submission	Adequate fire protection and fire detection systems are available. Complied 30-11-2024 Attachment:NA

		and flame detection system in the process as well as storage areas.		
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	Medical check up being done and records of the same are being maintained. Complied 30-11-2024 Attachment:NA
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	Adequate green belt area is being maintained which is 41.5 percent of the total site area. Complied 30-11-2024 Attachment:NA
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	PPs Submission	It is not applicable at the is point of time. Complied 30-11-2024 Attachment:NA

		of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	
--	--	---	--

General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks / Reason and Supporting Documents	
1	Statutory compliance	The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.	PPs Submission	Noted Complied 30-11-2024 Attachment:NA
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	Noted Agreed to Comply 30-11-2024 Attachment:NA

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	Ambient air quality monitoring stations installed in plant. Complied 30-11-2024 Attachment:NA
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	Noise monitoring being done Being Complied 30-11-2024 Attachment:NA
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	Rain water harvesting project is under progress. Ground water recharge is not being done as it is prohibited. Being Complied 30-11-2024 Attachment:NA
6	Human Health Environment	Training shall be imparted to the employees on safety and health aspects of chemicals handling.	PPs Submission	Training being imparted to all employees on safe handling of chemicals

		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.		and usage of appropriate PPE. Medical (pre-employment and periodic) examination is also being carried out. Complied 30-11-2024 Attachment:NA
7	Human Health Environment	Usage of Personnel protection equipment (PPEs) by all employees/ workers shall be ensured.	PPs Submission	Adequate PPE being provided to employees and usage is monitored and ensured Complied 30-11-2024 Attachment:NA
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 and the details have been submitted to IRO Vijayawada along with ATR during Feb 2024 Complied 30-11-2024 Attachment:NA
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	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. Being Complied 30-11-2024 Attachment:NA

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	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. Complied 30-11-2024 Attachment:NA
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	Separate environment management cell with laboratory is available and functional. Complied 30-11-2024 Attachment:NA
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	Separate funds are earmarked and they are never diverted for other purposes. The expenditure for environment matters for the FY 24-25 till October month is as follows: Cost of Consumables for ETP operation : Rs. 455252 Cost of Electricity for ETP operation: Rs. 296888 Cost of manpower : Rs. 231624 Capital expenditure towards Environment for the FY 24-25 : Rs. 2895000 Cost of environment monitoring: Rs. 666667 Cost of waste disposal : Rs. 594975 Repair and maintenance cost : Rs. 127562 Power Cost of dust collector operation : Rs. 67275 Complied

				30-11-2024 Attachment:NA
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	No such representations received Agreed to Comply 30-11-2024 Attachment:NA
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	Last six monthly compliance report submitted on 3rd May 2024 (for the period of Oct 23 to Mar 24) Complied 30-11-2024 Attachment:NA
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	PPs Submission	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. Complied

		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.		30-11-2024 Attachment:NA
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	Noted Complied 30-11-2024 Attachment:NA

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	The details have been submitted in ATR to IRO Vijayawada. Complied 30-11-2024 Attachment:NA
----	---------------	--	----------------	--

Document uploaded by the PP

Last Site Visit Report (if available)[Click to View](#)**Last Site Visit Report Date (if available)**

25-04-2024

Additional Attachment (if any)[Click to View](#)**Additional Remarks (if any)**

Half yearly compliance report for the period of Apr 24 to Sep 24

- ☒ I 'BERGER PAINTS INDIA LIMITED' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

Cover Letter From RO/SRO

Cover Letter From RO/SRO[Back](#)



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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

Report No : N017424094

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 22.0°C Max 30.0°C

Relative Humidity : Min 48% Max 68%

Duration : 24 Hrs.

Issue Date : 23.09.2024

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
13.09.2024	N/24/09/4-0174	10	14	52	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
13.09.2024	N/24/09/4-0174	0.21	<0.1	<0.5	<0.5	0.35	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

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025



TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No : N017524094

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 22.0°C Max 30.0°C

Relative Humidity : Min 48% Max 68%

Duration : 24 Hrs.

Issue Date : 23.09.2024

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
13.09.2024	N/24/09/4-0175	7	9	45	23	<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
13.09.2024	N/24/09/4-0175	0.21	<0.1	<0.5	<0.5	0.25	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

M. Sachin Raju
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025



TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No : N017624094

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 22.0°C Max 30.0°C

Relative Humidity : Min 48% Max 68%

Duration : 24 Hrs.

Issue Date : 23.09.2024

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
13.09.2024	N/24/09/4-0176	9	11	49	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
13.09.2024	N/24/09/4-0176	0.28	<0.1	<0.5	<0.5	0.41	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

M. Sachin Raju
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N0131-13424083

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 : 13.09.2024

Issue Date : 23.09.2024

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

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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. 2a

Report No : N019524094

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		: 13.09.2024	
Date of sample receipt		: 16.09.2024	
Lab Code		: N/24/09/4-0195	
Issue Date		: 23.09.2024	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	7.60	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.	4560	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	450	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	1250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	600.0	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 ***

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 2b

Report No : N019624094

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	: 13.09.2024			
Date of sample receipt	: 16.09.2024			
Lab Code	: N/24/09/4-0196			
Issue Date	: 23.09.2024			
Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	8.17	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	2000	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	12	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	144	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	11.3	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 ""

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 3

ETP SLUDGE

Report No : N020124094

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

Sample Type : ETP Sludge

Location : Near ETP Plant Area

Sample Collected by : Environmental Laboratory

Date of sample collection : 13.09.2024

Date of sample receipt ; 16.09.224

Lab Code : N/24/09/4-0201

Issue Date : 23.09.2024

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

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Accredited by NABL (TC-6172) Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025



TEST REPORT

Table No. 5a

Report No : N019824094

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	: 13.09.2024
Lab Code	: N/24/09/4-0198
Issue Date	: 23.09.2024
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	5	15	IS 3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (P-5) 2018
3	pH Value	6.65	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)	30.0	--	--	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	4.00	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	4.0	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"

BINUMANI
T.M.- Microbiology
Authorised Signatory

M. Sachin Raju
M. SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Accredited by NABL (TC-6172) Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025



TEST REPORT

Table No. 5b

Report No : N019924094

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 : 13.09.2024
Lab Code : N/24/09/4-0199
Issue Date : 23.09.2024
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	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.1	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)	120	--	--	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	64	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	20	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	2.4	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	12	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	4	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"

BINUMANI
TAL- Microbiology
Authorised Signatory

M. Sachin Raju
M. SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Accredited by NABL (TC-6172) Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025



TEST REPORT

Table No. 5c

Report No : N020024094

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	: 13.09.2024
Lab Code	: N/24/09/4-0200
Issue Date	: 23.09.2024
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	6.72	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)	30.00	—	—	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	16.0	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	6.00	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	4.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	2.0	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"

BINUMANI
T.M. Microbiology
Authorised Signatory

H. SACHIN RAJU
M. SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 6

NOISE LEVEL DATA

Report No : ELMES0022409

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 : 13.09.2024

Issue Date : 23.09.2024

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	46.0	62.1	73.2	36.0	49.4	55.0
N2	Near Gate No 1 outside	40.8	58.0	63.1	37.0	45.6	53.7
N3	RMS Area	43.2	61.4	72.3	41.5	56.9	61.8
N4	DG Set Area at 1mtr distance	47.0	62.7	68.4	38.3	56.0	59.0
N5	Near Gate No 2 outside	45.0	65.3	70.9	41.5	51.7	57.0

Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Leq. Limit dB(A)

	Day	Night
Industrial areas	75	70
Commercial area	65	55
Residential area	55	45

Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

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

With ear protection -

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

No entry when noise level exceeds 140 dB(A)

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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. 7a

Stack Monitoring Report

Report No : N020224094

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	: 13.09.2024
Date of Sample Receipt	: 16.09.2024
Lab Code	: N/24/09/4-0202
Issue date	: 23.09.2024

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)	30
6	Stack Temperature (°C)	160
7	Velocity (m/s)	17.95
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	400
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	0.17	≤ 4.0
2	CO		0.38	≤ 3.5
3	PM		0.06	≤ 0.2

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 7b

Stack Monitoring Report

Report No : N020324094

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	: 13.09.2024
Date of Sample Receipt	: 16.09.2024
Lab Code	: N/24/09/4-0203
Issue date	: 23.09.2024

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)	30
6	Stack Temperature (°C)	346
7	Velocity (m/s)	17.51
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6386
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	36.4	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	54.8	100
3	PM (at 15% O ₂),	mg/Nm ³	51.1	75
4	CO (at 15% O ₂),	mg/Nm ³	44.4	150

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 7c

Stack Monitoring Report

Report No : N020424094

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	: 13.09.2024
Date of Sample Receipt	: 16.09.2024
Lab Code	: N/24/09/4-0204
Issue date	: 23.09.2024

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)	363
7	Velocity (m/s)	18.47
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6713
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	64.4	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	55.0	100
3	PM (at 15% O ₂),	mg/Nm ³	55.0	75
4	CO (at 15% O ₂),	mg/Nm ³	52.5	150

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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. 7d

Stack Monitoring Report

Report No. : N027524094

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	: 14.09.2024
Date of Sample Receipt	: 16.09.2024
Lab Code	: N/24/09/4-0275
Issue date	: 23.09.2024

GENRAL 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)	52
6	Velocity (m/sec)	13.64
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	19230
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	14.9
3	Particulate Matter (PM)	mg/Nm ³	16.2

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 9

Illumination Survey

Report No : ELMES0032409

Mane 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)

Date of monitoring : 13.09.2024 7.40 pm to 8:50 pm

Issue Date : 23.09.2024

instrument used : HTC Lux Meter

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	210	196	201	196	200	200.5	200
2	Engineering Stores	205	189	171	183	171	183.8	100
3	ETP Lab	317	290	310	320	311	309.6	300
4	RMS Area	190	200	187	230	224	206.2	300
5	QC Lab	278	293	315	320	310	303.2	300
6	Processing Area	260	300	315	317	330	304.4	300
7	Filling Area	280	290	320	312	322	304.8	300
8	PMS Area	260	321	319	320	312	306.4	300
9	Security Office	216	220	195	188	225	208.8	200

M. Sachin Raju
M.SACHIN RAJU
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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 10

SOIL REPORT

Report No : N0205-020724094

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

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

Date of Samples : 13.09.2024

Date of Sample Receipt : 16.09.2024

Issue date : 23.09.2024

Location		1. Near ETP Plant Area	2. Near Green Belt Area	3. Near Scrap Yard	Method of Testing
Lab Code		N/24/09/4-0205	N/24/09/4-0206	N/24/09/4-0207	
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"

M. Sachin Raju
M.SACHIN RAJU
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



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

Report No : N013124083

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 28.0°C

Relative Humidity : Min 46% Max 62%

Duration : 24 Hrs.

Issue Date : 19.08.2024

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
09.08.2024	N/24/08/3-0131	7	<9	44	22	<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
09.08.2024	N/24/08/3-0131	0.19	<0.1	<0.5	<0.5	0.23	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.envttest.in



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. 1b

AMBIENT AIR QUALITY

Report No : N013224083

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 28.0°C
Relative Humidity	: Min 46% Max 62%
Duration	: 24 Hrs.
Issue Date	: 19.08.2024

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
09.08.2024	N/24/08/3-0132	6	10	35	21	<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
09.08.2024	N/24/08/3-0132	0.21	<0.1	<0.5	<0.5	0.31	<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



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. 1c

AMBIENT AIR QUALITY

Report No : N013324083

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 28.0°C

Relative Humidity : Min 46% Max 62%

Duration : 24 Hrs.

Issue Date : 19.08.2024

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
09.08.2024	N/24/08/3-0133	10	12	51	27	<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
09.08.2024	N/24/08/3-0133	0.23	<0.1	<0.5	<0.5	0.42	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

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



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. 1d

AMBIENT AIR QUALITY

Report No : N013424083

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 28.0°C
Relative Humidity	: Min 46% Max 62%
Duration	: 24 Hrs.
Issue Date	: 19.08.2024

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
09.08.2024	N/24/08/3-0134	5	9	35	19	<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
09.08.2024	N/24/08/3-0134	<0.1	<0.1	<0.5	<0.5	0.25	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

Arushi 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



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. 1g

AMBIENT AIR QUALITY

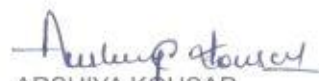
VOC TEST REPORT

Report No : N0081240802

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 : 09.08.2024
Issue Date : 19.08.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
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	Benzene	BDL	BDL	1.01	BDL
2	Toulene	BDL	BDL	BDL	0.70
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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


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



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. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N0131-13424083

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 : 09.08.2024
Issue Date : 19.08.2024

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

Arshiya Housar
ARSHIYA HOUSAR
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



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. 2a

Report No : N0071240802

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	: 09.08.2024
Date of sample receipt	: 10.08.2024
Lab Code	: N/24/08/02-0071
Issue Date	: 19.08.2024
Ref	: Environmental (P) Rules, 1986 SCHEDULE I, - 01.01.2016

Sl.No.	Parameters	Result	Method of Testing
1	pH	6.91	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.	3400	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	600	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	1300	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	640.0	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
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



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. 2b

Report No : N0072240802

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		: 09.08.2024		
Date of sample receipt		: 10.08.2024		
Lab Code		: N/24/08/02-0072		
Issue Date		: 19.08.2024		
Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.86	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.	2000	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	20	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	120	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	8.5	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 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



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. 4a

Report No : N0074240802

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	: 09.08.2024
Lab Code	: N/24/08/02-0074
Issue Date	: 19.08.2024
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	6.86	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	<1.0	75	200	IS:3025 (P-40)1981 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	<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	1.20	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

BINGU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

"END OF REPORT"

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



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. 4b

Report No : N0075240802

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 : 09.08.2024
Lab Code : N/24/08/02-0075
Issue Date : 19.0.2024
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	7.51	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	1.7	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (μ mhos/cm)	280	—	—	IS:3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	150	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	4.8	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	46	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	1.94	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	4.3	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	20	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	60	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	20	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 *Binu*
T.M. - Microbiology

Govt. Analyst / Authorised Signatory

"END OF REPORT"

ARSHIYA KOUSAR *Arushiya 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



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. 4c


Report No : N0076240802

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 : 09.08.2024
Lab Code : N/24/08/02-0076
Issue Date : 19.0..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	6.85	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)	38.00	--	--	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	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 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	<1.0	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	1.20	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	4.0	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
T.M. - Microbiology


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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



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. 5

NOISE LEVEL DATA

Report No : ELMES0012408

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 : 08.08.2024

Issue Date : 19.08.2024

Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	50.8	62.1	73.3	36.8	53.3	62.0
N2	Near Gate No 1 outside	37.8	59.5	65.8	39.9	50.2	58.6
N3	RMS Area	40.7	61.4	71.0	45.7	57.7	63.9
N4	DG Set Area at 1mtr distance	50.0	62.7	70.2	40.0	58.2	63.3
N5	Near Gate No 2 outside	49.8	65.9	71.3	41.5	54.9	61.3

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)

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



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. 6a

Stack Monitoring Report

Report No : N0077240802

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 : 09.08.2024

Date of Sample Receipt : 10.08.2024

Lab Code : N/24/08/02-0077

Issue date : 19.08.2024

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)	156
7	Velocity (m/s)	18.06
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	403
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	0.16	≤ 4.0
2	CO		0.37	≤ 3.5
3	PM		0.04	≤ 0.2

Arshiya Kousar
ARSHIYA KQUSAR
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



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. 6b

Stack Monitoring Report

Report No : N0078240802

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	: 09.08.2024
Date of Sample Receipt	: 10.08.2024
Lab Code	: N/24/08/02-0078
Issue date	: 19.08.2024

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)	340
7	Velocity (m/s)	17.44
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6339
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	74.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	55.2	100
3	PM (at 15% O ₂),	mg/Nm ³	47.9	75
4	CO (at 15% O ₂),	mg/Nm ³	44.1	150

ARSHIYA KOUSSAR
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



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. 6c

Stack Monitoring Report

Report No : N0079240802

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 : 09.08.2024

Date of Sample Receipt : 10.08.2024

Lab Code : N/24/08/02-0079

Issue date : 19.08.2024

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)	363
7	Velocity (m/s)	18.47
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6713
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	94.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	87.6	100
3	PM (at 15% O ₂),	mg/Nm ³	53.2	75
4	CO (at 15% O ₂),	mg/Nm ³	76.2	150

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



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. 6d

Stack Monitoring Report

Report No. : ELMES0022408

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory
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	: 10.08.2024
Date of Sample Receipt	: 12.08.2024
Lab Code	: N/24/08/3-0218A
Issue date	: 19.08.2024

GENERAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature (°C)	29
5	Stack Temperature (°C)	47
6	Velocity (m/sec)	13.39
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1884
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	40.0
2	NO _x as (NO ₂)	mg/Nm ³	14.3
3	Particulate Matter (PM)	mg/Nm ³	16.5

ARSHIYA KOLASAR
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



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

Report No : 0029240703

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 28.0°C

Relative Humidity : Min 46% Max 62%

Duration : 24 Hrs.

Issue Date : 19.07.2024

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
08.07.2024	N/24/07/03-0029	11	15	31	17	<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
08.07.2024	N/24/07/03-0029	0.15	<0.1	<0.5	<0.5	0.23	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

Arushi 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



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. 1b

AMBIENT AIR QUALITY

Report No : 0030240703

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 28.0°C

Relative Humidity : Min 46% Max 62%

Duration : 24 Hrs.

Issue Date : 19.07.2024

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
08.07.2024	N/24/07/03-0030	8	10	56	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
08.07.2024	N/24/07/03-0030	0.21	<0.1	<0.5	<0.5	0.32	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

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



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. 1c

AMBIENT AIR QUALITY

Report No : 0031240703

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 28.0°C

Relative Humidity : Min 46% Max 62%

Duration : 24 Hrs.

Issue Date : 19.07.2024

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
08.07.2024	N/24/07/03-0031	11	14	46	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
08.07.2024	N/24/07/03-0031	0.18	<0.1	<0.5	<0.5	0.26	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

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



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. 1d

AMBIENT AIR QUALITY

Report No : 0032240703

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 28.0°C

Relative Humidity : Min 46% Max 62%

Duration : 24 Hrs.

Issue Date : 19.07.2024

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
08.07.2024	N/24/07/03-0032	7	9	35	16	<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
08.07.2024	N/24/07/03-0032	0.11	<0.1	<0.5	<0.5	0.22	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

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



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. 1g

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No :0058-6124072

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 : 08.07.2024

Issue Date : 19.07.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Lab Code		N/24/07/2-0058	N/24/07/2-0059	N/24/07/2-0060	N/24/07/2-0061
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	Benzene	BDL	BDL	1.04	BDL
2	Toulene	BDL	BDL	BDL	0.70
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL
Note: BDL < 1.0 $\mu\text{g}/\text{m}^3$					

Arshiya Kojisar
ARSHIYA KOJSAR
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



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. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N0029-32240703

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 : 08.07.2024

Issue Date : 19.07.2024

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

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



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. 2a

Report No : 004324072

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		: 08.07.2024	
Date of sample receipt		: 09.07.2024	
Lab Code		: N/24/07/2-0043	
Issue Date		: 15.07.2024	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	6.64	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.	3840	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	1020	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	1600	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	420.0	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

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



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

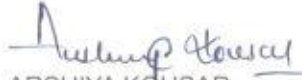
TEST REPORT

Table No. 2b

Report No.N004424072

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		: 08.07.2024		
Date of sample receipt		: 09.07.2024		
Lab Code		: N/24/07/2-0044		
Issue Date		: 15.07.2024		
Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.05	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.	840	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	48	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	180	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	24.0	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 ***


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



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. 4a

Report No : N004624072

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	: 08.07.2024
Lab Code	: N/24/07/2-0046
Issue Date	: 15.07.2024
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	6.87	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)	1124.0	—	—	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	720.0	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	74.00	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	76.00	250	1000	IS 3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.60	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	32.00	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	2.40	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	84.00	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	380.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	340.0	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

Govt. Analyst / Authorised Signatory

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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 4b

Report No : N004724072

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 : 08.07.2024
 Lab Code : N/24/07/2-0047
 Issue Date : 15.07.2024
 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	6.84	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)	1080	--	--	IS:3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	680	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	100.4	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), Max	260	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.5	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	48.6	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	1.84	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	<0.0005	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	54.8	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	130	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	450	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

Govt. Analyst / Authorised Signatory

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



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. 4c

Report No : N004824072

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	: 08.07.2024
Lab Code	: N/24/07/2-0048
Issue Date	: 15.07.2024
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	7.11	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)	980.00	--	--	IS:3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids, mg/l, Max	710.0	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	32.80	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	64.50	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.35	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	12.50	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	1.15	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	84.50	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	180.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃), mg/l, Max	130.0	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

Govt. Analyst / Authorised Signatory

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



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. 5

NOISE LEVEL DATA

Report No : ELMES0012407

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 : 08.07.2024

Issue Date : 19.07.2024

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	37.0	59.5	64.0	35.0	45.8	50.1
N2	Near Gate No 1 outside	42.6	62.0	68.5	36.0	45.6	52.0
N3	RMS Area	39.5	50.7	55.0	34.8	43.5	49.0
N4	DG Set Area at 1mtr distance	38.0	56.4	60.8	34.0	46.5	52.2
N5	Near Gate No 2 outside	41.0	59.7	69.0	36.5	47.0	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)

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



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. 6a

Stack Monitoring Report

Report No : 004924072

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	: 08.07.2024
Date of Sample Receipt	: 10.07.2024
Lab Code	: N/24/07/2-0049
Issue date	: 19.07.2024

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)	160
7	Velocity (m/s)	17.98
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	401
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		0.38	≤ 3.5
3	PM		0.05	≤ 0.2

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



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. 6b

Stack Monitoring Report

Report No : 005024072

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	: 08.07.2024
Date of Sample Receipt	: 10.07.2024
Lab Code	: N/24/07/2-0050
Issue date	: 19.07.2024

GENRAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	AmbientTemperature (°C)	28
6	Stack Temperature (°C)	348
7	Velocity (m/s)	17.77
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6417
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	107.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	56.3	100
3	PM (at 15% O ₂),	mg/Nm ³	53.4	75
4	CO (at 15% O ₂),	mg/Nm ³	63.0	150

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



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. 6c

Stack Monitoring Report

Report No : 005124072

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	: 08.07.2024
Date of Sample Receipt	: 10.07.2024
Lab Code	: N/24/07/2-0051
Issue date	: 19.07.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature ($^{\circ}\text{C}$)	28
6	Stack Temperature ($^{\circ}\text{C}$)	370
7	Velocity (m/s)	18.57
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	6706
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	89.0	710
2	NHC (as C) (at 15% O_2),	mg/Nm^3	55.2	100
3	PM (at 15% O_2),	mg/Nm^3	55.2	75
4	CO (at 15% O_2),	mg/Nm^3	72.0	150

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



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. 7

RESULTS OF RESIPARBLE AIR-BORNE DUST SURVEY

Report No : 0052-5724072

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)

Duration : 08 Hrs

Instrument Used : Environtech APM 801

Calibration due date of instrument : 17.07.2024

Date of sample : 08.07.2024

Lab Code : N/24/07/2-0052 - N/24/07/2-0057

Issue date : 19.07.2024

Sl.No	Date Sampling	Loaction	Name of Person	Result (mg/m ³)	Instrument Serial No
1	205	ASRS loading bay	K. Hanumanthappa	0.63	197 DTH 2017
2	203	WBP first floor	Static	1.07	199 DTH 2017
3	204	WBP ground floor	Static	0.96	235 DTC 2019
4	202	RMS first floor	Static	0.80	196 DTH 2017
5	201	RMS ground floor	Static	0.96	195 DTH 2017
6	200	ETP	Static	1.39	237 DTC 2019

Factories Act 1948, under the section of 41F as amended by Factories [Amended 1987] Act No. 20 of 1987

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



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

Report No : N002924064

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 23.0°C Max 31.0°C

Relative Humidity : Min 42% Max 60%

Duration : 24 Hrs.

Issue Date : 25.06.2024

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
10.06.2024	N/24/06/4-0029	12	18	35	18	<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
10.06.2024	N/24/06/4-0029	0.26	<0.1	<0.5	<0.5	0.45	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

Arushi Housar

ARSHIYA HOUSAR

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



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. 1b

AMBIENT AIR QUALITY

Report No : N003024064

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 23.0°C Max 31.0°C

Relative Humidity : Min 42% Max 60%

Duration : 24 Hrs.

Issue Date : 25.06.2024

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
10.06.2024	N/24/06/4-0030	11	14	48	22	<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
10.06.2024	N/24/06/4-0030	0.22	<0.1	<0.5	<0.5	0.33	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

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



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. 1c

AMBIENT AIR QUALITY

Report No : N003124064

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 23.0°C Max 31.0°C
Relative Humidity	: Min 42% Max 60%
Duration	: 24 Hrs.
Issue Date	: 25.06.2024

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
10.06.2024	N/24/06/4-0031	9	11	34	16	<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
10.06.2024	N/24/06/4-0031	0.29	<0.1	<0.5	<0.5	0.41	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

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



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. 1d

AMBIENT AIR QUALITY

Report No : N003124064

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 23.0°C Max 31.0°C

Relative Humidity : Min 42% Max 60%

Duration : 24 Hrs.

Issue Date : 25.06.2024

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
10.06.2024	N/24/06/4-0032	13	12	41	20	<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
10.06.2024	N/24/06/4-0032	0.21	<0.1	<0.5	<0.5	0.38	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

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



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. 1 g

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N012824063

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 : 10.06.2024
Issue Date : 25.06.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
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	Benzene	BDL	BDL	1.04	BDL
2	Toulene	BDL	BDL	BDL	0.70
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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

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



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. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N0029-3224064

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)

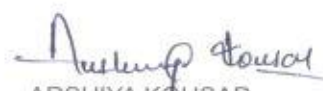
Instrument Used : Envirotech APM 850/33 DTA 2018

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 10.06.2024

Issue Date : 25.06.2024

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



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



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. 2a

Report No : N011924063

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	: 10.06.2024		
Date of sample receipt	: 11.06.2024		
Lab Code	: N/24/06/3-0119		
Issue Date	: 21.06.2024		
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016		
Sl. No.	Parameters	Result	Method of Testing
1	pH	6.52	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	4210	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	941	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	1340	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	480.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582: 1971 RA2019

*** END OF REPORT***

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



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. 2b

Report No. N012024063

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		: 10.06.2024		
Date of sample receipt		: 11.06.2024		
Lab Code		: N/24/06/3-0120		
Issue Date		: 21.06.2024		
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)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max	914	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	72	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	210	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	18.0	30	IS 3025 (P-44) 1993 RA 2019
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 Housar
ARSHIYA HOUSAR
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



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. 5

NOISE LEVEL DATA

Report No : M0424063

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 : 10.06.2024

Issue Date : 25.06.2024

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	37.6	64.6	71.5	36.8	46.5	53.0
N2	Near Gate No 1 outside	42.0	61.1	68.5	35.6	45.6	50.2
N3	RMS Area	39.5	54.7	62.3	34.6	43.6	53.7
N4	DG Set Area at 1mtr distance	38.5	55.9	60.2	34.0	46.5	54.8
N5	Near Gate No 2 outside	40.0	59.7	69.5	35.8	47.0	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)

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



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. 6a

Stack Monitoring Report

Report No : N012524063

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	: 10.06.2024
Date of Sample Receipt	: 11.06.2024
Lab Code	: N/24/06/3-0125
Issue date	: 25.06.2024

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)	37
6	Stack Temperature (°C)	152
7	Velocity (m/s)	17.99
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	401
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	0.19	≤ 4.0
2	CO		0.39	≤ 3.5
3	PM		0.06	≤ 0.2

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



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. 6b

Stack Monitoring Report

Report No : N012624063

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	: 10.06.2024
Date of Sample Receipt	: 11.06.2024
Lab Code	: N/24/06/3-0126
Issue date	: 25.06.2024

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)	37
6	Stack Temperature (°C)	352
7	Velocity (m/s)	17.83
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6437
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	100.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	64.7	100
3	PM (at 15% O ₂),	mg/Nm ³	65.1	75
4	CO (at 15% O ₂),	mg/Nm ³	56.3	150

Arushi 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



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. 6c

Stack Monitoring Report

Report No : N012724063

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	: 10.06.2024
Date of Sample Receipt	: 11.06.2024
Lab Code	: N/24/06/3-0127
Issue date	: 25.06.2024

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)	37
6	Stack Temperature (°C)	374
7	Velocity (m/s)	18.63
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6727
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	162.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	55.2	100
3	PM (at 15% O ₂),	mg/Nm ³	54.3	75
4	CO (at 15% O ₂),	mg/Nm ³	48.0	150

ARSHIYA KOJSAR
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



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

Report No : N014224052

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 22.0°C Max 37.0°C

Relative Humidity : Min 36% Max 61%

Duration : 24 Hrs.

Issue Date : 20.05.2024

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
08.05.2024	N/24/05/2-0142	10	15	58	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	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
08.05.2024	N/24/05/2-0142	0.11	<0.1	<0.5	<0.5	0.41	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

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



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. 1b

AMBIENT AIR QUALITY

Report No : N014324052

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 22.0°C Max 37.0°C

Relative Humidity : Min 36% Max 61%

Duration : 24 Hrs.

Issue Date : 20.05.2024

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
08.05.2024	N/24/05/2-0143	8	10	55	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
08.05.2024	N/24/05/2-0143	0.16	<0.1	<0.5	<0.5	0.23	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

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



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. 1c

AMBIENT AIR QUALITY

Report No : N014424052

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-DT1-2017

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

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 22.0°C Max 37.0°C

Relative Humidity : Min 36% Max 61%

Duration : 24 Hrs.

Issue Date : 20.05.2024

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
08.05.2024	N/24/05/2-0144	6	10	61	38	<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
08.05.2024	N/24/05/2-0144	0.11	<0.1	<0.5	<0.5	0.28	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



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. 1d

AMBIENT AIR QUALITY

Report No : N014524052

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 22.0°C Max 37.0°C

Relative Humidity : Min 36% Max 61%

Duration : 24 Hrs.

Issue Date : 20.05.2024

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
08.05.2024	N/24/05/2-0145	11	15	53	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
08.05.2024	N/24/05/2-0145	0.14	<0.1	<0.5	<0.5	0.34	30
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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



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. 1 g

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N/24/05/2-0087

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 : 08.05.2024

Issue Date : 20.05.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
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	Benzene	BDL	BDL	1.09	BDL
2	Toulene	BDL	BDL	BDL	0.90
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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

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



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. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No :N0142-14524052

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 : 08.05.2024

Issue Date : 20.05.2024

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

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



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. 2a

Report No : N007724052

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	: 08.05.2024
Date of sample receipt	: 08.05.2024
Lab Code	: N/24/05/2-0077
Issue Date	: 20.05.2024
Ref	: Environmental (P) Rules, 1986 SCHEDULE I, - 01.01.2016

Sl. No.	Parameters	Result	Method of Testing
1	pH	6.94	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	2518	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	643	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	820	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	180.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

*** END OF REPORT***

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



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. 2b

Report No : N007824052

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		: 08.05.2024		
Date of sample receipt		: 08.05.2024		
Lab Code		: N/24/05/2-0079		
Issue Date		: 20.05.2024		
Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.75	6.0 to 8.5	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max	810	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	64	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	84	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	12.0	30	IS 3025 (P-44) 1993 RA 2019
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 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



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. 4a
Report No : N008024052

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	: 08.05.2024
Lab Code	: N/24/05/2-0080
Issue Date	: 20.05.2024
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	5	15	IS 3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (P-5) 2018
3	pH Value	7.15	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, Max	0.2	1	5	IS 3025 (P-10) 1984 RA 2017
6	Electrical Conductivity (µmhos/cm)	161.4	--	--	IS 3025 (P-14)
7	Total Dissolved Solids, mg/l, Max	98.0	500	2000	IS 3025 (P-16) 1984 RA 2017
8	Aluminium (as Al), Max	<0.01	0.03	0.2	IS 3025 (P-55) 2003 RA 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS 3025 (P-34) 1988 RA 2019
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	Annex K of Is. 13428Amm 11 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	6.41	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	17.99	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	2.97	30	100	IS 3025 (P-46) 1994 RA 2019
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	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1.0	45	45	IS 3025 (P-34) 1988 RA 2019
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	4.60	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) 1986 RA 2019
30	Alkalinity (as CaCO ₃), mg/l, Max	37.3	200	600	IS 3025 (P-23) 1986 RA 2019
31	Total Hardness (as CaCO ₃), mg/l, Max	28.0	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		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected	any 100ml Sample		IS:15185:2016 RA 2021

"END OF REPORT"

BINUMANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

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



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. 4b

Report No : N008124052

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	: 08.05.2024
Lab Code	: N/24/05/2-0081
Issue Date	: 20.05.2024
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	6.84	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, Max	<0.1	1	5	IS:3025 (P-10) 1984 RA 2017
6	Electrical Conductivity (µmhos/cm)	93.7	—	—	IS 3025 (P-14)
7	Total Dissolved Solids, mg/l, Max	53.0	500	2000	IS:3025 (P-16) 1984 RA2017
8	Aluminium (as Al), Max	<0.01	0.03	0.2	IS:3025 (P-55) 2003 RA 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 1988 RA 2019
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	Annex K of Is. 13428Amm 11 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	8.0	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	11.6	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) 1994 RA 2019
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	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	0.46	45	45	IS:3025 (P-34) 1988 RA 2019
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	3.30	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) 1986 RA 2019
30	Alkalinity (as CaCO ₃), mg/l, Max	20.0	200	600	IS:3025 (P-23) 1986 RA 2019
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

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

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



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. 4c

Report No : N008224052

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 : 08.05.2024
Lab Code : N/24/05/2-0082
Issue Date : 20.05.2024
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	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.46	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, Max	0.5	1	5	IS:3025 (P-10) 1984 RA 2017
6	Electrical Conductivity (µmhos/cm)	139.10	--	--	IS:3025 (P-14)
7	Total Dissolved Solids, mg/l, Max	98.0	500	2000	IS:3025 (P-16) 1984 RA 2017
8	Aluminium (as Al), Max	<0.01	0.03	0.2	IS:3025 (P-55) 2003 RA 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 1988 RA 2019
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	Annex K of IS:13428Amm 11 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	4.0	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	15.7	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	4.86	30	100	IS:3025 (P-46) 1994 RA 2019
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	Clause 6 of IS:3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1.0	45	45	IS:3025 (P-34) 1988 RA 2019
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	8.40	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) 1988 RA 2019
30	Alkalinity (as CaCO ₃), mg/l, Max	24.4	200	600	IS:3025 (P-23) 1986 RA 2019
31	Total Hardness (as CaCO ₃), mg/l, Max	28.0	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

Govt. Analyst / Authorised Signatory

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



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. 5

NOISE LEVEL DATA

Report No : M002240522

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 : 08.05.2024

Issue Date : 20.05.2024

Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	42.0	66.1	72.6	36.8	46.5	56.4
N2	Near Gate No 1 outside	46.0	62.0	70.0	36.0	45.6	52.3
N3	RMS Area	40.0	54.0	61.0	35.0	43.6	54.3
N4	DG Set Area at 1mtr distance	39.0	59.3	65.0	34.0	46.5	56.0
N5	Near Gate No 2 outside	41.0	59.7	73.0	35.8	50.3	58.0

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)

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



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. 6a

Stack Monitoring Report

Report No : N008324052

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	: 08.05.2024
Date of Sample Receipt	: 11.05.2024
Lab Code	: N/24/05/2-0083
Issue date	: 20.05.2024

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)	37
6	Stack Temperature (°C)	160
7	Velocity (m/s)	18.26
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	407
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		0.74	≤ 3.5
3	PM		0.15	≤ 0.2

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



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. 6b

Stack Monitoring Report

Report No : N008424052

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	: 08.05.2024
Date of Sample Receipt	: 11.05.2024
Lab Code	: N/24/05/2-0084
Issue date	: 20.05.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature ($^{\circ}\text{C}$)	37
6	Stack Temperature ($^{\circ}\text{C}$)	350
7	Velocity (m/s)	18.25
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	6526
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	140.0	710
2	NHC (as C) (at 15% O_2),	mg/Nm^3	62.2	100
3	PM (at 15% O_2),	mg/Nm^3	65.1	75
4	CO (at 15% O_2),	mg/Nm^3	90.0	150

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



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. 6c

Stack Monitoring Report

Report No : N008524052

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	: 08.05.2024
Date of Sample Receipt	: 11.05.2024
Lab Code	: N/24/05/2-0085
Issue date	: 20.05.2024

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)	37
6	Stack Temperature (°C)	366
7	Velocity (m/s)	18.50
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6614
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	159.1	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	80.0	100
3	PM (at 15% O ₂),	mg/Nm ³	62.3	75
4	CO (at 15% O ₂),	mg/Nm ³	72.0	150

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



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. 1 g

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No : N008224044

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

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

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 22.04.2024

Issue Date : 01.05.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
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	Benzene	BDL	BDL	1.06	BDL
2	Toulene	BDL	BDL	BDL	0.90
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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

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



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. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N008324044

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

Instrument Used : Envirotech APM 850/33 DTA 2018

Calibration due date of instrument : 10.12.2024

Date of Monitoring : 22.04.2024

Issue Date : 01.05.2024

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

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



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

WATER TEST REPORT

Table No. 2 a

Report No : ED002024044

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory	
Location of Sampling		: Raw Effluent water	
Date of sample collection		: 22.04.2024	
Date of sample receipt		: 23.04.2024	
Lab Code		: ED/24/04/4-0020	
Issue Date		: 01.05.2024	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl.N o.	Parameters	Result	Method of Testing
1	pH	6.13	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	40.2	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	2845	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	740	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	0.101	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	0.788	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	0.093	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	998.2	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	84.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019
"" END OF REPORT ""			

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



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 2b

Report No :ED002124044

Name of the Project : Berger Paints India Limited, Industrial Park
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory
Location of Sampling : Effluent Treated Plant water
Date of sample collection : 22.04.2024
Date of sample receipt : 23.04.2024
Lab Code : ED/24/04/4-0021
Issue Date : 01.05.2024

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.86	6.0 to 8.5	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1940	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	85	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	0.039	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	124	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	27.0	30	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

*** END OF REPORT***

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



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

Report No : N007824044

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)

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 23.0°C Max 36.0°C

Relative Humidity : Min 38% Max 57%

Duration : 24 Hrs.

Issue Date : 01.05.2024

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
22.04.2024	N/24/04/4-0078	14	18	63	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	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
22.04.2024	N/24/04/4-0078	0.22	<0.1	<0.5	<0.5	0.42	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

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



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. 1b

AMBIENT AIR QUALITY

Report No : N007924044

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

Location : A2 - Near ETP Area

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 23.0°C Max 36.0°C

Relative Humidity : Min 38% Max 57%

Duration : 24 Hrs.

Issue Date : 01.05.2024

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
22.04.2024	N/24/04/4-0079	12	14	58	33	<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
22.04.2024	N/24/04/4-0079	0.14	<0.1	<0.5	<0.5	0.26	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

Arshiyakousar
ARSHIYAKOUSAR
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



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. 1c

AMBIENT AIR QUALITY

Report No : N008024044

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)
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 23.0°C Max 36.0°C
Relative Humidity	: Min 38% Max 57%
Duration	: 24 Hrs.
Issue Date	: 01.05.2024

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
22.04.2024	N/24/04/4-0080	11	11	55	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
22.04.2024	N/24/04/4-0080	0.29	<0.1	<0.5	<0.5	0.34	29
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

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



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. 1d

AMBIENT AIR QUALITY

Report No : N008124044

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A4 - Near Green Belt Area
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 23.0°C Max 36.0°C
Relative Humidity	: Min 38% Max 57%
Duration	: 24 Hrs.
Issue Date	: 01.05.2024

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
22.04.2024	N/24/04/4-0081	11	12	60	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
22.04.2024	N/24/04/4-0081	0.13	<0.1	<0.5	<0.5	0.24	27
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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



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. 4a

Report No : ED002324044

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
Particulars of sample collected	: DW1. Drinking water Base Block first floor
Date of sample collection	: 22.04.2024
Lab Code	: ED/24/04/4-0023
Issue Date	: 01.05.2024
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	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.43	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, Max	0.2	1	5	IS:3025 (P-10) 1984 RA 2017
6	Electrical Conductivity (µmhos/cm)	154.6	--	--	IS 3025 (P-14)
7	Total Dissolved Solids, mg/l, Max	110.0	500	2000	IS:3025 (P-16) 1984 RA 2017
8	Aluminium (as Al), Max	0.037	0.03	0.2	IS:3025 (P-55) 2003 RA 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 1988 RA 2019
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	Annex K of Is:13428Amm 11 2022
11	Barium (as Ba), mg/l, Max	0.129	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	4.01	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	0.014	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	27.10	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.30	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	0.041	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	2.91	30	100	IS:3025 (P-46) 1994 RA 2019
21	Manganese (as Mn), mg/l, Max	0.002	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil, mg/l, Max	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	0.46	45	45	IS:3025 (P-34) 1988 RA 2019
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	8.60	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) 1986 RA 2019
30	Alkalinity (as CaCO ₃), mg/l, Max	34.7	200	600	IS:3025 (P-23) 1986 RA 2019
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	0.03	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	0.005	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr), mg/l, Max	0.005	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"

(Signature)
BINUMANI
T.M. - Microbiology

(Signature)
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



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. 4b

Report No : ED002424044

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
Particulars of sample collected	: DW2. Drinking water canteen parking area
Date of sample collection	: 22.04.2024
Lab Code	: ED/24/04/4-0024
Issue Date	: 01.05.2024
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	7.15	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, Max	<0.1	1	5	IS:3025 (P-10)1984 RA 2017
6	Electrical Conductivity (umhos/cm)	53.3	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	30.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	0.037	0.03	0.2	IS:3025 (P-55) 2003 RA 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 1988 RA 2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	0.2	1.0	Annex K of Is:13428Amm 11 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	1.6	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	0.077	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	19.2	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.19	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	0.082	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg),mg/l, Max	<1.0	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	0.003	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	0.17	45	45	IS:3025 (P-34) 1988 RA 2019
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	4.40	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):1986 RA 2019
30	Alkalinity (as CaCO ₃) mg/l, Max	9.9	200	600	IS:3025 (P-23):1986 RA 2019
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	0.007	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	0.006	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr),mg/l, Max	0.004	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"

T.M. - Microbiology

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



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. 4c

Report No : ED002524044

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
 Particulars of sample collected : DW3. Drinking water Raw Material Area
 Date of sample collection : 22.04.2024
 Lab Code : ED/24/04/4-0025
 Issue Date : 01.05.2024
 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	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.17	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, Max	0.1	1	5	IS:3025 (P-10) 1984 RA 2017
6	Electrical Conductivity (μ mhos/cm)	181.80	--	--	IS:3025 (P-14)
7	Total Dissolved Solids, mg/l, Max	130.0	500	2000	IS:3025 (P-16) 1984 RA 2017
8	Aluminium (as Al), Max	0.017	0.03	0.2	IS:3025 (P-55) 2003 RA 2019
9	Ammonia (as total Ammonia -N), mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 1988 RA 2019
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	0.2	1.0	Annex K of IS:13428Amm 11 2022
11	Barium (as Ba), mg/l, Max	0.014	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	4.8	75	200	IS:3025 (P-40) 1991 RA 2019
14	Copper (as Cu), mg/l, Max	0.051	0.05	1.5	IS:3025 (P-2) 2019
15	Chloride as Cl (mg/l), mg/l, Max	31.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.29	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	0.027	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg), mg/l, Max	4.37	30	100	IS:3025 (P-46) 1994 RA 2019
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	Clause 6 of IS:3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	<1.0	45	45	IS:3025 (P-34) 1988 RA 2019
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	10.60	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) 1986 RA 2019
30	Alkalinity (as CaCO ₃), mg/l, Max	39.6	200	600	IS:3025 (P-23) 1986 RA 2019
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	0.009	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	0.008	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"

ENVIRONMENTAL
T.M. - Microbiology

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



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. 5

NOISE LEVEL DATA

Report No : M001240405

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

Sample Collected by : Environmental Laboratory

Instrument Used : HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2024

Date of sample collection : 22.04.2024

Issue Date : 01.05.2024

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	40.8	63.5	71.5	36.8	46.5	52.9
N2	Near Gate No 1 outside	48.0	58.0	66.0	36.8	45.6	50.2
N3	RMS Area	42.0	51.7	57.6	36.0	43.6	48.6
N4	DG Set Area at 1mtr distance	37.8	57.3	63.0	34.3	46.5	52.2
N5	Near Gate No 2 outside	38.6	59.5	68.0	36.5	46.5	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)

Arshiya K DUSAR
ARSHIYA K DUSAR
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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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. 6a

Stack Monitoring Report

Report No : N003824044

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

Sample Collected by : Environmental Laboratory

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 : 22.04.2024

Date of Sample Receipt : 24.04.2024

Lab Code : N/24/04/4-0038

Issue date : 01.05.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature ($^{\circ}\text{C}$)	36
6	Stack Temperature ($^{\circ}\text{C}$)	156
7	Velocity (m/s)	18.26
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	407
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	0.40	≤ 4.0
2	CO		0.71	≤ 3.5
3	PM		0.14	≤ 0.2

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



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. 6b

Stack Monitoring Report

Report No : N003924044

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory
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	: 22.04.2024
Date of Sample Receipt	: 24.04.2024
Lab Code	: N/24/04/4-0039
Issue date	: 01.05.2024

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)	36
6	Stack Temperature (°C)	355
7	Velocity (m/s)	18.33
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6595
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	133.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	65.7	100
3	PM (at 15% O ₂),	mg/Nm ³	62.3	75
4	CO (at 15% O ₂),	mg/Nm ³	46.2	150

ARSHIYA KQUSAR
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



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. 6c

Stack Monitoring Report

Report No : N004024044

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Sample Collected by	: Environmental Laboratory
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	: 22.04.2024
Date of Sample Receipt	: 24.04.2024
Lab Code	: N/24/04/4-0040
Issue date	: 01.05.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature ($^{\circ}\text{C}$)	36
6	Stack Temperature ($^{\circ}\text{C}$)	374
7	Velocity (m/s)	18.63
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6704
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	174.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	86.0	100
3	PM (at 15% O ₂),	mg/Nm ³	58.1	75
4	CO (at 15% O ₂),	mg/Nm ³	48.0	150

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