

22nd May 2025.

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

Sub: Berger Paints India Limited – Half Yearly EC Compliance Report – EC vide F. No. J-11011/515/2010-IA II (I) dated 1st November 2011.

Dear Sir,

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

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

Kindly acknowledge the receipt.

Enclosed:

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

With Regards

For Berger Paints India Ltd.

Venkata Apparao D

Factory Head

Copy to:

- 1. The Joint Chief Environmental Engineer, A.P. Pollution Control Board, Zonal Office, Dr. YSR Paryavaran Bhavan, Road No.1, Labour Colony, V. R. Colony Kurnool 518 003.
- 2. The EE, AP Pollution Control Board, Door. No: 6-3-145, First Floor, Revenue ward 6, Ramnagar, Anantapur 515004, Andhra Pradesh

5/22/25, 12:07 PM Home Page

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

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

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

Acknowledgement

Proposal Name	BERGER PAINTS INDIA LIMITED PLOT NO. 262, APIIC GROWTH CENTER THUMUKUNTA VILLAGE, HINDUPUR MANDAL SRI SATYA SAI DISTRICT, ANDHRA PRADESH - 515211
Name of Entity / Corporate Office	BERGER PAINTS INDIA LIMITED
Village(s)	TUMAKUNTA
District	SRI SATHYA SAI

Proposal No.	IA/AP/IND/21749/1910
Plot / Survey / Khasra No.	262
State	ANDHRA PRADESH
MoEF File No.	J-11011/515/2010-IA II (I)

Category	Industrial Projects - 3
Sub-District	Hindupur
Entity's PAN	****EQUIRED
Entity name as per PAN	BERGER PAINTS INDIA LIMITED

Compliance Reporting Details

Reporting Year 2025

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office BERGER PAINTS INDIA LIMITED

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

Production Capacity

Sr.	no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
	1	Water based polymer emulsion	Others:MTPA	N/A	100000	0	
	2	Water based distemper paints	Million Tons per Annum (MTPA)	N/A	48000	0	
	3	Water based emulsion paints	Others:kilo litres per annum	N/A	272000	65705	
Conditio	ns						
pecific Co	nditions						
Sr.No.	Condition 7	Гvne	Conditi	on Details			

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Only water Paint shall be manufactured. No solvent paint shall be manufactured without prior permission obtained from ministry.
	abmission: Complied eing complied	Date: 04/05/2025
2	MISCELLANEOUS	No lead and chromium-based paint shall be manufactured.
PPs Su	ubmission: Being Complied	Date: 04/05/2025

Adequate stack height shall be provided to HSD/LDO fired steam AIR QUALITY boilers (5 Nos) to control air emissions. As proposed adequate dust 3 MONITORING AND extraction system shall be provided to capture fugitive emissions of **PRESERVATION** fine particles from mixers during powder charging.

PPs Submission: Being Complied Currently there are no boilers in our plant. For mixers and TSDs there is a dedicated dust extraction system.

Date: 04/05/2025

AIR QUALITY 4 MONITORING AND **PRESERVATION**

The gaseous emissions (SO2, NOx, CO and HC) and particulate matter from boiler stack shall confirm to the norms prescribed by the CPCB/AP pollution Control Board (APPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measure are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.

Date: **PPs Submission:** Complied 04/05/2025 Currently there are no boilers in our plant. Hence it is not applicable

AIR QUALITY 5 MONITORING AND **PRESERVATION**

The levels of PM2.5, NOx CO HC (Methane and Non-methane) and VOCs shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at

important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office MOEF, the respective Zonal office of CPCB and APPCB. Date: **PPs Submission:** Being Complied 04/05/2025 Environmental monitoring being done. The applicable parameters are being displayed at main gate of the company for display to public. 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 AIR QUALITY water sprinkling system. Dust suppression system including water MONITORING AND 6 sprinkling system shall be provided at loading and uploading areas to PRESERVATION control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emission shall confirm to the limits stipulated by the APPCB. Date: PPs Submission: Being Complied 04/05/2025 Adequate dust extraction system and closed loop charging system are implemented to control the fugitive emissions VOCs detectors shall be installed in the work zone. When 7 **Human Health Environment** monitoring results indicate above the permissible limits, effective measures shall be taken immediately. Date: PPs Submission: Being Complied 04/05/2025 It is planned to install VOC meters in the currently plant in required locations. 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 8 **MISCELLANEOUS** maintenance. The acid shall be taken form storage tanks to reactor through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. Cathodic protection shall be provided to the underground solvent storage tanks. Date: PPs Submission: Complied 04/05/2025 Raw material (Powders and liquids) are being charged through closed pipelines from storage area to process area. Preventive maintenance is being carried out. No acid is used in our process. AIR QUALITY The gaseous emission from DG set shall be dispersed through 9 MONITORING AND adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. **PRESERVATION** Date: **PPs Submission:** Complied 04/05/2025 DG sets are enclosed in acoustic enclosure. Separate stacks with adequate heights are available. Total fresh water requirement from APIIC water supply shall not exceed 524 cum/day and prior permission shall be obtained from the 10 Statutory compliance concerned authority and a copy submitted to the ministry Regional office at Bangalore. No ground water shall be used. Date: PPs Submission: Complied 04/05/2025 Noted. Permission letter available. No ground water is being used.

11	WATER QUALITY MONITORING AND PRESERVATION	Total industrial waste water generation shall not exce cum/day. Industrial effluent shall be treated in ETP cor- physiochemical treatment facility, biological treatment treatment. Treated effluent shall be recycled/reused wi premises after achieving desired water quality for varie	mprising and tertiary th in factory
Noted.	Submission: Complied Fully operational ETP with all neces ner cleaning and toilet flushing.	sary units is available. The treated water is used for	Date: 04/05/2025
12	Statutory compliance	No effluent shall be discharged outside the factory programmed Zero discharge concept shall be adopted.	remises and
	Submission: Being Complied nts are not at all discharged.		Date: 04/05/2025
13	Risk Mitigation and Disaster Management	Hazardous chemicals shall be stored in tanks, tank fa carboys etc. Flame arrestors shall be provided on tank transfer shall be by pumps.	
	Submission: Complied cardous chemicals are being used in o	ur plant. No solvents are being used.	Date: 04/05/2025
14	Statutory compliance	The company shall obtain Authorization for collection disposal of hazardous waste under hazardous Waste (no Handling and Transboundary Movement) rules, 2016 at a on date for management of Hazardous wastes and prior from APPCB shall be obtained for disposal of solid /ha wastes in the TSDF. Measures shall be taken from for facilities in case of emergency.	nanagement, and amended r permission azardous
	Submission: Complied thorization available. Fire detection s	system and fire protection system are available.	Date: 04/05/2025
15	Statutory compliance	The company shall strictly comply with the rules and under manufacture, Storage and Import of hazardous c (MSIHC) Rules 1989 as amended time to time. All Tra hazardous Chemicals shall be as per the Motor Vehicle 1989.	hemicals ansportation o
	Submission: Complied of the raw materials used in our produ	ction fall under MSIHC rules.	Date: 04/05/2025
16	WASTE MANAGEMENT	The company shall undertake following waste minim measures: Metering and control of quantities of active minimize waste. Reuse of by – products from the process automated filling to minimize spillage. Use of close fee batch reactors. Venting equipment through vapor recovuse of high-pressure hoses for equipment cleaning to materials.	ingredients t ess as raw es. Use of ed system int very system
All the and flo Autom	w meter which automatically decreas ated filling lines are being used. Clos	e taken form pneumatic conveying system with load cell ses wastage. There is no byproduct in our process. ed loop feeding system is implemented. No solvents are ng used for cleaning of equipment to reduce water	Date: 04/05/2025

17	MISCELLANEOUS	Proper spillage management plan shall be prepar implemented. A copy of spillage management plan to the Ministry's regional office at Bangalore.	
	Submission: Complied ge management plan is available an	d the same has been submitted to IRO Vijayawada	Date: 04/05/2025
18	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection hazards during manufacturing process in material labeling system shall be as per the OISD 117 norm system shall be provided along with fire monitor a system in the process as well as storage areas.	nandling. Fire- s. Fire hydrant
	Submission: Complied nate fire detection and fire protection	n systems are available.	Date: 04/05/2025
19	Human Health Environment	Occupational health surveillance of the workers regular basis and records maintained as per the Fac	
	Submission: Complied al check up being done and records	of the same are being maintained.	Date: 04/05/2025
20	GREENBELT	Green belt shall be developed in 80,617 sqm out 831 sqm. Thick green belt with suitable plant spec developed around the unit to mitigate the odor professional statement of the square o	ies shall be
	Submission: Complied nate green belt area is being maintain	ned which is 41.5 percent of the total site area.	Date: 04/05/2025
21	MISCELLANEOUS	Provision shall be made for the housing for the c within the site with all necessary infrastructure and fuel for cooking, mobile toilets, mobile STP, safe a medical health care, crèche etc. The housing may be temporary structure to be removed after the comple All the construction wastes shall be managed so the impact on the surrounding environment.	I facilities such as drinking water, be in the form of a etion of the project

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project authorities shall strictly adhere to the stipulations m by the AP Pollution Control Board.
PPs Su Noted	abmission: Complied	Date: 04/05/20
2	Statutory compliance	No further expansion or modification in the plant shall be carrie 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 Noted	Submission: Complied		Date: 04/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	The locations of ambient air quality monitoring stat decided in consultation with the State pollution Contr shall be ensured that at least one stations is installed it and downwind direction as well as where maximum geoncentrations are anticipated.	ol Board and in the up wind
	Submission: Complied ent air quality monitoring stations install	led in plant	Date: 04/05/2025
4	Noise Monitoring & Prevention	The overall noise levels in and around the plant area well within the standards by providing noise control reincluding acoustic hoods, silencers, enclosures etc. or noise generation. The ambient noise levels shall confistandards prescribed under environment (protection) viz. 75 dBA (day time) and 70 dBA (night time)	neasures a all sources of arm to the
	Submission: Being Complied monitoring being done.		Date: 04/05/2025
5	Human Health Environment	The company shall harvest rainwater from the roof buildings and storm water drains to recharge the grou use the same water for the process activities of the profresh water.	nd water and
		ss. Ground water recharge is not being done as it is	Date: 04/05/2025
6	Human Health Environment	Training shall be imparted to the employees on safe aspects of chemicals handling. Pre-employment and r periodical medical examinations for the all employee undertaken on regular basis. Training to all employee chemicals shall be imparted.	outine s shall be
Trainiı	Submission: Complied ng being imparted to all employees on s Medical (pre employment and periodic)	afe handling of chemicals and usage of appropriate examination is also being carried out.	Date: 04/05/2025
7	Human Health Environment	Usage of Personnel protection equipment (PPEs) by workers shall be ensured.	all employees
	Submission: Complied ate PPE being provided to employees a	nd usage is monitored and ensured.	Date: 04/05/2025
	MISCELLANEOUS	The company shall also comply with all the environ protection measures and safeguards proposed in the d submitted to the Ministry. All the recommendations in EIA/EMP in respect of environmental management, r	ocuments nade in the isk mitigation
8		measures and public hearing relating to the project sh implemented.	an be

	ied and the details have been submitted	ed to IRO Vijayawada along with ATR during Feb 2024.	04/05/2025
9	Statutory compliance	The company shall undertake all relevant measures f the socio-economic conditions of the surrounding area shall be undertaken by involving local villages and adu	. CSR activiti
CSR ac	Submission: Being Complied ctivities are being undertaken. For the shave been planned with an approxim	financial year 24-25, providing STEM labs for govt. nate budget of 10 lakhs.	Date: 04/05/2025
10	Corporate Environmental Responsibility	The company shall undertake eco developmental me including community welfare in the project area for th improvement of the environment.	
Under (Submission: Complied CER, a mid day meal shed has been p kunta area with an approximate budg	proposed to be constructed in one of the govt schools in et of 15 lakhs.	Date: 04/05/2025
11	Human Health Environment	A separate environmental Management cell equipped fledged laboratory facilities shall be set up to carry out Environmental Management and Monitoring functions	the
	Submission: Complied te environment management cell with	laboratory is available and functional.	Date: 04/05/2025
12	Human Health Environment	The company shall earmark sufficient funds to imple conditions stipulated by the Ministry of Environment a well as state Government along with the implementation	and Forests as
12	Truman Treatur Environment	all the conditions stipulated herein. The funds so earm environment management/pollution control measures diverted for any other purposes.	arked for
PPs S Separate environ consum Cost of : Rs. 41	Submission: Complied te funds are earmarked and they are nument matters for the FY 24-25 from Chables for Effluent treatment: Rs. 289 manpower: Rs. 390680 Cost of environments.	all the conditions stipulated herein. The funds so earm environment management/pollution control measures	arked for shall not be Date:
PPs S Separate environ consum Cost of: Rs. 41 the FY	Submission: Complied te funds are earmarked and they are nument matters for the FY 24-25 from Chables for Effluent treatment: Rs. 289 manpower: Rs. 390680 Cost of envil 16925 Repair and maintenance cost:	all the conditions stipulated herein. The funds so earm environment management/pollution control measures diverted for any other purposes. ever diverted for other purposes. The expenditure for October to March 2025 is as follows: Cost of ETP 2664 Cost of Electricity for ETP operation: Rs. 1212870 ironment monitoring: Rs. 500000 Cost of waste disposal	Date: 22/05/2025
PPs S Separate environ consum Cost of: Rs. 41 the FY	Submission: Complied te funds are earmarked and they are nument matters for the FY 24-25from Chables for Effluent treatment: Rs. 289 manpower: Rs. 390680 Cost of envil 16925 Repair and maintenance cost: 24-25: Rs. 2895000	all the conditions stipulated herein. The funds so earm environment management/pollution control measures diverted for any other purposes. ever diverted for other purposes. The expenditure for October to March 2025 is as follows: Cost of ETP 0664 Cost of Electricity for ETP operation: Rs. 1212870 ironment monitoring: Rs. 500000 Cost of waste disposal Rs. 90390 Capital expenditure towards Environment for A copy of the clearance letter shall be sent by the proto concerned panchayat, Zilla parishad/Municipal corplocal body and the local NGO, if any from who suggests	Date: 22/05/2025 Diject proponer poration, union stions g the proposal.
PPs S Separate environ consum Cost of: Rs. 41 the FY	Submission: Complied the funds are earmarked and they are nument matters for the FY 24-25 from Chables for Effluent treatment: Rs. 289 frampower: Rs. 390680 Cost of environment and maintenance cost: 24-25: Rs. 2895000 MISCELLANEOUS Submission: Agreed to Comply	all the conditions stipulated herein. The funds so earm environment management/pollution control measures diverted for any other purposes. ever diverted for other purposes. The expenditure for October to March 2025 is as follows: Cost of ETP 0664 Cost of Electricity for ETP operation: Rs. 1212870 ironment monitoring: Rs. 500000 Cost of waste disposal Rs. 90390 Capital expenditure towards Environment for A copy of the clearance letter shall be sent by the proto concerned panchayat, Zilla parishad/Municipal corplocal body and the local NGO, if any from who suggests	Date: 22/05/2025 Diject proponer poration, union stions at the proposal. Date: 04/05/2025 reports on the rance hard copies af MoEF, the Control Boar compliance

Last six	x monthly compliance report subr	nitted on 30 Nov 2024 (for the period of Oct 24 to Mar 25)	04/05/2025
15	Statutory compliance	The environmental statement for each financial year March in Form - V as is mandated shall submitted to a State Pollution Control Board as prescribed under the (Protection) Rules. 1986, as amended subsequently, so on the website of the company along with the status of environmental clearance conditions and shall also be a respective Regional Offices of MoEF by e-mail.	the concerned Environment hall also be pur f compliance of
Form -	Submission: Being Complied V has been sent to SPCB and dis - Vijayawada on 30th September	played on website of the company. The same has been sent 2024.	Date: 04/05/2025
16	MISCELLANEOUS	The project proponent shall inform the public that the been accorded environmental clearance by the Ministry the clearance letter are available with the SPCB/Commalso be seen at Website of the Ministry at http://envfo.shall be advertised within seven days from the date of clearance letter, at least in two local newspapers that a circulated in the region of which one shall be in the velanguage of the locality concerned and a copy of the storwarded to the concerned Regional Office of the Ministry	ry and copies of mittee and may r.nic.in. This issue of the are widely ernacular same shall be
PPs S	Submission: Complied		Date: 04/05/2025
17	MISCELLANEOUS	The project authorities shall inform the Regional Of the Ministry, the date of financial closure and final ap project by the concerned authorities and the date of staproject.	proval of the
PPs S	Submission: Complied	·	Date: 04/05/2025

Last Site Visit Report Date:	25/04/2024
Additional Remarks:	Half yearly compliance report for the period of Oct 24 to Mar 25

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

ENVIRONMENTAL MONITORING REPORT

March, 2025

PROJECT: BERGER PAINTS INDIA LIMITED,

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

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

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

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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

TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupur Mandal,

Anantapur Dist, Andhra Pradesh.

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

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

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

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

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 21.0°C Max 34.0°C

Relative Humidity : Min 30% Max 50%

Duration : 24 Hrs.

issue Date : 28.03.2025

			Concentration						
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (μg/m³)	P M _{2.5,} (µg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m³		
19.03.2025	P043525033	12	15	56	29	<20	<1		
Limits for Industrial ,	<u> </u>	80	80	100	60	400	5		
Residential, Rural and other	Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual		

		Concentration							
Date of Sampling	Report No	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O₃), μg/m³		
19.03.2025	P043525033	0.13	<0.1	<0.5	<0.5	0.25	20		
Limits for Industrial ,	<u> </u>	1.0	20	6	1	4	180		
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr		
Note : * Parameters n	nonitored for per	iod of 1 hr			1	ı			

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



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

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AMBIENT AIR QUALITY

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupur Mandal,

Anantapur Dist, Andhra Pradesh.

Location

: A2 - Near ETP Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 34.0°C

Relative Humidity

: Min 30% Max 50%

Duration

: 24 Hrs.

Issue Date

: 28.03.2025

	1		Concentration					
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (μg/m³)	P M _{2.5,} (μg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), µg/m³	
19.03.2025	P043625033	11	14	51	26	<20	<1	
Limits for Industrial ,		80	80	100	60	400	5	
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual	

	Concentration							
Date of Sampling	Report No	Lead (Pb), μg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m³	s), Pyrene (RaP)	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃), μg/m ³	
19.03.2025	P043625033	0.11	<0.1	<0.5	<0.5	0.32	23	
Limits for Industrial ,	thou Augus	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 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



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: N009825021

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupur Mandal,

Anantapur Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 34.0°C

Relative Humidity

: Min 30% Max 50%

Duration

: 24 Hrs.

Issue Date

: 28.03.2025

		Concentration						
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO₂), µg/m³	Ρ Μ _{10,} (μg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), μg/m³	
19.03.2025	P043725033	9	11	61	34	<20	<1	
Limits for Industrial ,	,	80	80	100	60	400	5	
Residential, Rural and other	Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual	

t no	Lead (Pb),		A	Benzo(a)		l
	μg/m ³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Pyrene (RaP)	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃), µg/m³
5033	0.19	<0.1	<0.5	<0.5	0.36	24
	1.0	20	6	1	4	180
	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
	5033	1.0	1.0 20 24 Hrs Annual	1.0 20 6 24 Hrs Annual Annual	15033 0.19 <0.1 <0.5 <0.5 1.0 20 6 1 24 Hrs Annual Annual Annual	1.0 20 6 1 4 24 Hrs Annual Annual Annual 1 Hr

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory



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TEST REPORT

Table No. 1d

AMBIENT AIR QUALITY

Report No: N009925021

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupur Mandal,

Anantapur Dist, Andhra Pradesh.

Location

: A4 - Near Green Belt Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 2925-DTK-2020

Fine Partculate Sampler - Envirotech APM -550, Serial No. 527-DTG-2017

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 34.0°C

Relative Humidity

: Min 30% Max 50%

Duration

: 24 Hrs.

Issue Date

: 28.03.2025

-A. A		Concentration							
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxid e (NO ₂), μg/m ³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C _ε H _ε), μg/m ³		
19.03.2025	P043825033	12	18	53	28	<20	<1		
Limits for Industrial ,		80	80	100	60	400	5		
Residential, Rural and other	Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual		

	Concentration						
Date of Sampling	Report No	Lead (Pb), μg/m³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃), µg/m³
19.03.2025	P043825033	0.16	<0.1	<0.5	<0.5	0.42	21
Limits for industrial ,	1	1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
Note : * Parameters in	nonitored for per	iod of 1 hr					

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Project: Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

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

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 19.03.2025

Issue Date : 28.03.2025

	Location	WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
	Report no	N002825034	N002925034	N003025034	N003125034
SI No	Parameters	Result µg/m³	Result µg/m³	Result μg/m³	Result µg/m³
1	voc	BDL	BDL	1.10	BDL

Note: BDL < 1.0 µg/m³

ARSHIYA KOUSAR

Dy. T.M. - Chemical

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY

HYDROCARBONS TEST REPORT

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used: Envirotech APM 850/33 DTA 2018

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 19.03.2025

Issue Date : 28.03.2025

Location		DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)		
Report No		P043525033	P043625033	P043725033 P043825033		Method of Testing
SI No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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Dy. T.M. - Chemical

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TEST REPORT

Table No. 2a

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Nature of Sample

: Raw Effluent water

Date of sample collection

: 19.03.2025

Date of sample receipt

: 20.03,2025 : N001925034

Report No **Issue Date**

: 28.03.2025

Ref

: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

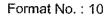
Kei		. Environmental	offilierital (F) Rules, 1900 SCHEDULE 1,- VI.VI.2010		
SI. No.	Parameters	Result	Method of Testing		
1	pН	8.12	IS 3025 (P-11) 2022		
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021		
3	Phenolic Compounds as C_6H_5OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022		
4	Dissolved Solids (inorganic) mg/l, Max.	728	IS 3025 (P-16) 2023		
5	Suspended Solids (mg/l), Max	8	IS 3025 (P-17) 2022		
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K		
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K		
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)		
-12	COD (mg/l), Max	740	IS 3025 (P-58) 2023		
13	BOD [3 days at 27 ⁰ C] (mg/l), Max	675.0	IS 3025 (P-44) 2023		
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019		

"" END OF REPORT""

SHIYA KOUSAR Dy. T.M. - Chémical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 2b

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

Nature of Sample

(Unit of Mineral Engineering Services LLP) : Effluent Treated Plant water

Date of sample collection

: 19.03.2025

Date of sample receipt Report No

: 20.03.2025 : N002025034

Issue Date

: 28.03.2025

SI. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	рН	8.50	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	2040	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	26.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COĐ (mg/l), Max	135	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	14.8	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT"

SHIYA KOJUSAR Dy. T.M. - Chemical Govt. Analyst / Authorised Signatory

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Note: This report is subject to the terms and conditions mentioned overleaf.

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TEST REPORT

Table No.2d

ETP SLUDGE

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

Thumakunta village, Hindupur Mandal,

Anantapur Dist, Andhra Pradesh.

Sample Type : ETP Sludge

Locatuon of Sample : Near ETP Plant Area

Sample Collected by : Environmental Laboratory

Date of sample collection: 19.03.2025
Date of sample receipt; 20.03.2025

Report No : ELME2192503 Issue Date : 28.03.2025

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

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Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 3a

Name of the Client Name of the Project : M/s. Berger Paints India Limited,

Industrial Park, Thumakunta village,

Hindupur Mandai, Anantapur Dist, Andhra Pradesh.

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP) : DW1. Drinking water Base Block first floor

Particulars of sample collected
Date of sample collection

: 19.03.2025

Date of sample receipt

: 20.03.2025 : N002225034

Report No Issue Date

: N002225034 : 28.03.2025

Ref : IS:19500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI. No.	Parameters	Results DW1	Desirable Limts	Permissible Lîmts	Method of Testing
1	Colour (Hazen Units)	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	I\$:3025 (P-5) 2018
3	pH Value	7.40	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	30.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Amm 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	<2	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as C12	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	12.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Copper (as Cu),mg/i	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg)mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	<1	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(F-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	14.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	6.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	(S:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	I\$:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	(\$:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any		IS:15185:2016 RA 2021
42	Total Coliform /100ml)	Not Detected	100ml	Sample	(S:15185.2016 RA 2021
43	Electrical Conductivity (µmhos/cm)	52.0	_	_	IS 3025 (P-14)

BINU MANI

T.M. - Microbiology Govt. Analyst / Authorised Signatory ARSHIYA KOUSAR

Dy. T.M.:- Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 3b

Name of the Client

M/s. Berger Paints India Limited, : Industrial Park, Thumakunta village,

Name of the Project

Hindupur Mandal, Anantapur Dist, Andhra Pradesh.

Sample Collected by Particulars of sample collected : Environmental Laboratory (Unit of Mineral Engineering Services LLP) : DW2. Drinking water canteen parking area

Date of sample collection

: 19.03.2025

Date of sample receipt

: 20.03.2025 : N002325034

Report No Issue Date

: 28.03.2025

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Si. No.	Parameters	Results DW2	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.27	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids.mg/l	84.0	500	2000	IS:3025 (P-15)1964 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Amm 11 2022
10	Barium (as 8a), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	2.40	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as C12	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as CI (mg/l)	24.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/i	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg)mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	3.50	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	(S:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	4.00	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	(S:3025 (P-29):1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	36.0	200	600	(S:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	10.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS-3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS.3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb) mg/l	<0.005	0.01	0.01	IS.3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS.3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS-3025 (P-2) 2019
	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
	Escherichia coli/100ml	Not Detected			IS:15185:2016 RA 2021
42	Total Coliform /100ml)	Not Detected	100ml	Sample	IS:15185:2016 RA 2021
43	Electrical Conductvity (µmhos/cm)	155 0		-	IS 3025 (P-14)

Sim BINU MANI

T.M. - Microbiology Govt. Analyst / Authorised Signatory

ARSHIYA K∯USAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 3c

Name of the Client

M/s. Berger Paints India Limited,

Name of the Project

Industrial Park, Thumakunta village,

Sample Collected by

Hindupur Mandal, Anantapur Dist, Andhra Pradesh.

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Particulars of sample collected

: DW3. Drinking water Near Raw Material Area

Date of sample collection Date of sample receipt : 19.03.2025 : 20.03.2025 : N002425034

Report No Issue Date

: 28.03.2025

Ref : (S:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
No.	Colour (Hazen Units)	DW3	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.80	6,5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	<u>'</u>	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
	Taste			Agreeable 5	
	Turbidity,NTU	<0.1	1		IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	24.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Amm 11 2022
	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as 8), mg/l	<0.1	0.5	2.4	IS:3025 (Parl-57)2021
12	Calcium (as Ca),mg/l	<2	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as C12	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as CI (mg/l)	10.00	250	1000	IS:3025 (P-32)1988 RA 2019
	Copper (as Cu),mg/l	<0.005	0.05	1,5	IS:3025 (P-2)2019
	Fluoride (as F),mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg)mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	<1	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH).mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/i	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H₂S) , mg/l	<0.01	0,05	0.05	IS:3025 (P-29):1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	10.0	200	600	IS:3025 (P-23);1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	6.0	200	600	IS:3025 (P-21),2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200 7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	(S:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Delected			(S:15185:2016 RA 2021
42	Total Coliform /100ml)	Not Detected		Sample	IS:15185:2016 RA 2021
43	Elestrical Conductvity (µmhos/cm)		_	_	IS 3025 (P-14)

J Sim)

T.M. - Microbiology

ARSHIYA KOUSAR

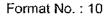
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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"END OF REPORT





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TEST REPORT

Table No. 4

NOISE LEVEL DATA

Report No: ELME2292503

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

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used: Lutron SL-4001 Data Logger

Calibration due date of instrument : 16.07.2025

Date of sample collection : 19.03.2025

Date of sample receipt : 20.03.2025

Issue Date: 25,03,2025

Code		Day			Nigt		
No.	Monitoring stations	L _{min}	Leq	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1st floors	47.7	55.6	61.6	40.5	46.0	48.2
N2	Near Gate No 1 outside	40.8	50.6	55.4	35.0	43.6	48.3
N3	RMS Area	49.0	54.7	64.0	37.6	48.0	51.5
N4	DG Set Area at 1mtr distance	49.2	55.3	60.1	38.0	47.7	54.2
N5	Near Gate No 2 outside	44.4	54.6	61.7	41.0	50.8	56.0
	Permissible Limits of Ambient	t Noise Le	vels as pe	r CPCB G	uidelines	<u>.</u>	
		Leq. Lim	it dB(A)				
		Day	Night				
	Industrial areas	75	70				
	Commercial area	65	55		•		
	Residential area	55	45				

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TEST REPORT

Table No. 5a

Stack Monitoring Report

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupur Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: DG set 1

instrument used for sampling: Emissions collected through stack sampler

Date of sample Collection

: 19.03.2025

Date of Sample Receipt

: 20.03.2025

Report No

: N002525034

Issue date

: 28.03.2025

STACK DETAILS

1	Fuel Used	Diesel				
2	Capacity (KVA)	Capacity (KVA)				
3	Stack height (M)			5		
4	Stack diameter (M)			0.13		
5	AmbientTemperature (C)		32		
6	Stack Temperature (°C)			152		
7	Velocity (m/s)			11.03		
8	Quanitity of flue Gas Di (Nm³/hr)	scharged into atr	nosphere	244		
9	Sample Condition Whe	n Received		Satisfactory		
10	Model of the Equipmen	Vayubodhan Stack Sampler VSS1				
11	Serial No. of the Equipr	338-DTH-2014				
12	Calibration done date	15.07.2025				
13	Test Method	IS: 11255				
	P	ollutional Parame	ters (Result)			
SI.No	Parameters	Unit	Results	Limits		
1	Nox +HC		0.087	≤ 4.0		
2	со	g/Kw-Hr	0.232	≤ 3.5		
3	РМ		0.020	≤ 0.2		

SHIYA KOUSAR Dy. T.M. - Chemical

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TEST REPORT

Table No. 5b

Stack Monitoring Report

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupur Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: DG set 2

instrument used for sampling: Emissions collected through stack sampler

Date of sample Collection

: 19.03.2025

Date of Sample Receipt

: 20.03.2025

Report No Issue date : N002625034

: 28.03.2025

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	AmbientTemperature (°C)	31
6	Stack Temperature (°C)	288
7	Velocity (m/s)	11.82
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)	4294
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	86BTF12
12	Calibration done date	15.07.2025
13	Test Method	IS: 11255
	Pollutional Parameters (Result)	
		DC Limite

Pollutional Parameters (Result)						
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW		
. 1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	18.3	710		
2	NHC (as C) (at 15% O2).	mg/Nm³	54.4	100		
3	PM (at 15% O2),	mg/Nm³	53.0	75		
4	CO (at 15% O2),	mg/Nm³	40.8	150		

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TEST REPORT

Table No. 5c

Stack Monitoring Report

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupur Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: DG set 3

instrument used for sampling: Emissions collected through stack sampler

Date of sample Collection

: 19.03.2025

Date of Sample Receipt

: 20.03.2025 : N002725034

Report No Issue date

: 28.03.2025

		STACK DE	TAILS				
1	Fuel Used	uel Used					
2	Capacity (KVA)	Capacity (KVA)					
3	Stack height (M)			5			
4	Stack diameter (M)			0.38			
5	AmbientTemperature ('C)		30			
6	Stack Temperature (°C)			340			
7	Velocity (m/s)			13.49			
8	Quanitity of flue Gas Di (Nm³/hr)	4917					
9	Sample Condition Whe	n Received		Satisfactory			
10	Model of the Equipmen	t used for Monito	oring	Vayubodhan Stack Sampler VSS1			
11	Serial No. of the Equip	nent		338-DTH-2014			
12	Calibration done date			15.07.2025			
13	Test Method	IS: 11255					
	P	ollutional Param	eters (Result)				
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW			
	110 (110) (11 45%	<u> </u>	T				

SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO_x as (NO_2) (at 15% O_2), Dry basis	PPMV	15.6	710
2	NHC (as C) (at 15% O2),	mg/Nm³	45.4	100
3	PM (at 15% O2),	mg/Nm³	56.0	75
4	CO (at 15% O2),	mg/Nm³	33.3	150

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TEST REPORT

Table No. 5d

Stack Monitoring Report

Name of the Industry

: Berger Paints India Limited.,

Industrial Park, Thumakunta village,

Hindupur Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: Stack of Dust Collectors

instrument used for sampling: Emissions collected through stack sampler

Date of sample Collection

: 20.03.2025

Date of Sample Receipt

: 21.03.2025

Report No

: N003525034

issue	date : 28.03.2025				
	STACK DET	AILS			
1	Fuel Used		•		
2	Barometric pressure (mm of Hg)		705		
3	Stack diameter (M)		0.74		
4	AmbientTemperature (°C)		32		
5	Stack Temperature (°C)		66		
6	Velocity (m/sec)		12.64		
7	Quanitity of flue Gas Discharged into atm (Nm³/hr)	nosphere	17818		
8	Sample Condition When Received		Satisfactory		
9	Model of the Equipment used for Monitor	ring	Vayubodhan Stack Sampler VSS1		
10	Serial No. of the Equipment		86BTF12		
11	Calibration done date		15.07.2025		
12	Test Method		IS: 11255		
	Pollutional Parame	ters (Result)			
SI.No	Parameters	Unit	Results		
1	Sulphur Dioxide (SO ₂)	mg/Nm3	38.1		
2	NO _x as (NO ₂)	mg/Nm3	15.3		
3	Particulate Matter (PM)	mg/Nm3	33,0		

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TEST REPORT

Table No. 7

Report No: ELME232503

Illumination Survey

: Berger Paints India Limited, Industrial Park,

Thumakunta village, Hindupur Mandal,

Anantapur Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

instrument used

: HTC Lux Meter

Date of monitoring

Mane of the Project

: 19.03.2025 Time: 7.40 pm to 8:50 pm

Issue Date

: 28.03.2025

Ref Standard

: ISO 8995 CIE S 008/E

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

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TEST REPORT

Table No. 8

SOIL REPORT

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

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

Date of Samples : 19.03.2025

Date of Sample Receipt: 20.03.2025

Issue date : 28.03.2028

	Location	1. Near ETP Plant Area	2. Near Green Belt Area	3. Near Scrap Yard	Method of Testing	
	Report No	N003225034	N003325034	N003425034		
ŞL. No.	PARAMETERS		· • • • • • • • • • • • • • • • • • • •			
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"

ARSHIYA KOUSAR

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ENVIRONMENTAL MONITORING REPORT

February, 2025

PROJECT: BERGER PAINTS INDIA LIMITED,

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

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

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



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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No: N009625021

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 16.0°C Max 20.0°C

Relative Humidity

: Min 40% Max 88%

Duration

: 24 Hrs.

Issue Date

: 19.02.2025

	Lab Code	Concentration							
Date of Sampling		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (μg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), µg/m³		
03.02.2025	N/25/02/1-0096	14	19	61	32	<20	<1		
Limits for Industrial, Residential, Rural and other	r Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual		

	Lab Code	Concentration							
Date of Sampling		Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m³	Monovide*	Ozone* (O ₃), µg/m³		
03.02.2025	N/25/02/1-0096	0.18	<0.1	<0.5	<0.5	0.34	25		
Limits for Industrial,	<u> </u>	1.0	20	6	1	4	180		
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr		

* Parameters monitored for period of 1 hr

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Note: This report is subject to the terms and conditions mentioned overleaf.



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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No: N009725021

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A2 - Near ETP Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

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

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

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 16.0°C Max 20.0°C

Relative Humidity

: Min 40% Max 88%

Duration

: 24 Hrs.

Issue Date

: 19.02,2025

	Lab Code		Concentration							
Date of Sampling		Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m ³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), µg/m³			
03.02.2025	N/25/02/1-0097	11	17	56	28	<20	<1			
Limits for Industrial ,		80	80	100	60	400	5			
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual			

	Lab Code		Concentration							
Date of Sampling		Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃), µg/m³			
03.02.2025	N/25/02/1-0097	0.22	<0.1	<0.5	<0.5	0.48	22			
Limits for Industrial ,	.,!.	1.0	20	6	1	4	180			
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr			
Residential, Rural and o		Annual	Annual	Annual	1 Hr	1 1 1				

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TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No: N009825021

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 16.0°C Max 20.0°C

Relative Humidity

: Min 40% Max 88%

Duration

: 24 Hrs.

Issue Date

: 19.02.2025

		Concentration							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃), μg/m³	Benzene (C ₆ H ₆), µg/m³		
03.02.2025	N/25/02/1-0098	9	14	54	24	<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		

	Lab Code	Concentration							
Date of Sampling		Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CQ), mg/m³	Ozone* (O ₃), µg/m³		
03.02.2025	N/25/02/1-0098	0.12	<0.1	<0.5	<0.5	0.42	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

M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangaiore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in



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TEST REPORT

Table No. 1d

AMBIENT AIR QUALITY

Report No : N009925021

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A4 - Near Green Belt Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Instrument Used

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

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

Calibration due date of instrument : 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 16.0°C Max 20.0°C

Relative Humidity

: Min 40% Max 88%

Duration

: 24 Hrs.

Issue Date

: 19.02.2025

	Lab Code		Concentration							
Date of Sampling		Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH₃), μg/m³	Benzene (C _e H _e), μg/m³			
03.02.2025	N/25/02/1-0099	7	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			

	Lab Code		Concentration							
Date of Sampling		Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Monovide*	Ozone* (O₃), μg/m³			
03.02.2025	N/25/02/1-0099	0.23	<0.1	<0.5	<0.5	0.33	23			
Limits for Industrial,		1.0	20	6	1	4	180			
Residential, Rural and other Areas		24 Hrs	Annual	Annual	I Annual	1 Hr	1 Hr			
Note : * Parameters #	nonitored for peri	od of 1 hr		•						

M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No :N0310-031325023

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

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

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 03.02.2025

Issue Date : 19.02.2025

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
	Lab code	N/25/02/3-0310	N/25/02/3-0311	N/25/02/3-0312	N/25/02/3-0313
SI No	Parameters	. Result μg/m³	Result μg/m³	Result μg/m³	Result μg/m³
1	voc	BDL	BDL	1.10	BDL

Note: BDL < 1.0 µg/m³

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Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY

HYDROCARBONS TEST REPORT

Report No :N0096-009925021

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used: Envirotech APM 850/33 DTA 2018

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 03.02.2025

Issue Date : 19.02.2025

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

M. Curilay M. SACHIN RAJU T.M. - Chemical

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TEST REPORT

Table No. 2a

Report No: N029425023

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Nature of Sample

: Raw Effluent water

Date of sample collection
Date of sample receipt

: 03.02.2025 : 04.02.2025

Date of sample receip Lab Code

: N/25/02/3-0294

Issue Date

Ref

: 19.02.2025

: Environmental (P) Rules, 1986 SCHEDULE 1,- 01.01.2016

Kei		. Elivirollinelita	(a) (r) Rules, 1900 SCHEDULE 1,- 01.01.2010		
SI. No.	Parameters	Result	Method of Testing		
1	рН	8.13	IS 3025 (P-11) 2022		
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021		
3	Phenolic Compounds as C ₆ H₅OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022		
4	Dissolved Solids (inorganic) mg/l, Max.	620	IS 3025 (P-16) 2023		
5	Suspended Solids (mg/l), Max	10	IS 3025 (P-17) 2022		
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K		
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K		
11	Hexavalent Chromium as Cr+6 (mg/l), Max	<0.03	IS 3025 (P-52)		
12	COD (mg/l), Max	688 ·	IS 3025 (P-58) 2023		
13	BOD [3 days at 27°C] (mg/l), Max	60.0	IS 3025 (P-44) 2023		
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019		

"" END OF REPORT""

M. Chemical

Govt. Analyst / Authorised Signatory



(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 2b

Report No : N029525023

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Nature of Sample

: Effluent Treated Plant water

Date of sample collection

: 03.02.2025

Date of sample receipt

: 04.02.2025 : N/25/02/3-0295

Lab Code Issue Date

: 19.02.2025

SI. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	рН	8.27	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (rng/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	2150	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	60.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr*6 (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	110	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	12.0	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT""

Milan M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory



(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, iSO:45001:2018 Certified Laboratory
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TEST REPORT

Table No. 3a

Report No: N029825023

Name of the Client Name of the Project : M/s. Berger Paints India Limited, : Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

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

Date of sample collection

: DW1. Drinking water Base Block first floor : 03.02.2025

Lab Code Issue Date : N/25/02/3-0298 : 19.02.2025

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Si. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.56	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductvity (µmhos/cm)	42.0	-		IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<0.1	0.2	1.0	IS: 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	2.40	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	< 0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as CI (mg/l),mg/l, Max	8.00	250	1000	JS:3025 (P-32) 1988 RA 2019
	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
	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
	Iron (as Fe),mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
20	Magnesium (as Mg)mg/l, Max	<2	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
	Mineral Oil,mg/l, Max *	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
	Molybdenum (as Mo), mg/l, Max	< 0.001	0.07	0.07	IS:3025 (P-2) 2019
	Sulphates (as SO ₄),mg/l, Max	<1	200	400	IS:3025 (P-24) Sec 1 2022
	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃) mg/l, Max	12.00	200	600	IS:3025 (P-23) 2023
	Total Hardness (as CaCO ₃),mg/l,Max	10.0	200	600	IS:3025 (P-21):2009 RA 2019
	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
	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		IS:15185:2016 RA 2021
41	Lota (Chirionn /100mi)	Not Detected	any 100m	il Sample	15:15185:2016 RA 2021 A

BINU MANI

"END OF REPORT"

ARSHIYA KOUSAR Dy, T.M. - Chemical

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

Govt. Analyst / Authorised Signatory



Name of the Client

Name of the Project

ENVIRONMENTAL LABORATORY

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TEST REPORT

Table No. 3b

Report No : N029925023

: M/s. Berger Paints India Limited,

: Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engi Particulars of sample collected : DW2. Drinking water canteen parking area

 Date of sample collection
 : 03.02.2025

 Lab Code
 : N/25/02/3-0299

 Issue Date
 : 19.02.2025

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Si. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.76	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductvity (µmhos/cm)	140		.	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	76	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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/t, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	5.61	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu) mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	26.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as 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
	Magnesium (as Mg)mg/l, Max	1.9	30	100	IS:3025 (P-46) 2023
	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oit,mg/l, Max ●	<0.5	1,0	1.0	IS 3025 (P-39) 2021
	Nitrates (as NO ₃),mg/l, Max	2.8	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
	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
	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
	Sulphates (as SO ₄),mg/l, Max	3.2	200	400	IS:3025 (P-24) Sec 1 2022
	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃) mg/l, Max	24.0	200	600	IS:3025 (P-23) 2023
1	Total Hardness (as CaCO ₃),mg/l,Max	22.0	200	600	IS:3025 (P-21):2009 RA 2019
	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
	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
	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
	Escheriehia coli/100ml	Not Detected	Shall not be detectable in		IS:15185:2016 RA 2021
41	Illita (Onliforin /100mi)	Not Detected	any 100m	il Sample	IS:15185:2016 RA 2021

BINU MANI T.M. - Microbiology "END OF REPORT"

ARSHIYA KOUSAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

Govt. Analyst / Authorised Signatory



(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 3c

Report No : N030025023

Name of the Client Name of the Project

: M/s. Berger Paints India Limited, : Industrial Park, Thumakunta viilage,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Sample Collected by Particulars of sample collected

: DW3. Drinking water Near Raw Material Area

Date of sample collection Lab Code

: 03.02.2025 : N/25/02/3-0300

Issue Date : N/25/02/3-0

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Ket	ef : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing	
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021	
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018	
3	pH Value	6.48	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022	
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023	
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023	
6	Electrical Conductvity (µmhos/cm)	40.00	**		IS 3025 (P-14) 2013 RA 2019	
7	Total Dissolved Solids,mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023	
8	Aluminium (as Al), Max	< 0.005	0.03	0.2	IS:3025 (P-2) 2019	
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023	
10	Anionic Detergents (as MBAS),mg/, Maxl	<0.1	0.2	1.0	IS : 3025 (P-68) 2022	
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019	
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021	
13	Calcium (as Ca),mg/l, Max	<2.0	75	200	IS:3025 (P-40)1991 RA 2019	
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019	
15	Chloride as Cl (mg/l),mg/l, Max	8.00	250	1000	IS:3025 (P-32) 1988 RA 2019	
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	JS:3025 (P-60) 2008 RA 2019	
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021	
18	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021	
19	Iron (as Fe),mg/l, Max	<0.005	1,0	1.0	IS:3025 (Part-2) 2019	
20	Magnesium (as Mg)mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023	
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019	
22	Mineral Oil,mg/l, Max .	<0.5	1.0	1.0	IS 3025 (P-39) 2021	
23	Nitrates (as NO ₃),mg/l, Max	<1	45	45	IS:3025 (P-34) Sec 1 2023	
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022	
25	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019	
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019	
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019	
28	Sulphates (as SO ₄),mg/l, Max	<1	200	400	IS:3025 (P-24) Sec 1 2022	
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022	
30	Alkalinity (as CaCO ₃) mg/l, Max	10.0	200	600	IS:3025 (P-23) 2023	
31	Total Hardness (as CaCO ₃),mg/l,Max	10.0	200	600	IS:3025 (P-21):2009 RA 2019	
	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	
	Cyanide (as CN),mg/t, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021	
	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019	
	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	
_	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019	
-	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019	
40	Escherickia coli/100ml	Not Detected		detectable in	IS:15185:2016 RA 2021	
41	Iota (Californ /100ml)	Not Detected	any 100m	al Sample	IS:15185:2016 RA 2021 A	

BINU MANI T.M. - Microbiology "END OF REPORT"

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TEST REPORT

Table No. 4

NOISE LEVEL DATA

Report No: ELMES022501

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

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Instrument Used: Lutron SL-4001 Data Logger

Calibration due date of instrument : 16.07.2025

Date of sample collection: 03.02.2025

Issue Date : 19.02.2025

Code		Day			Nigt		
No.	Monitoring stations	L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L max
N1	WBP Manufacturing building 1 st floors	4 5.2	53.5	62.0	40.5	46.4	50.0
N2	Near Gate No 1 outside	47.3	57.6	64.2	35.0	43.9	57.2
N3	RMS Area	41.2	53.6	59.2	37.6	48.0	52.2
N4	DG Set Area at 1mtr distance	44.8	57.2	64.5	38.0	49.4	57.3
N5	Near Gate No 2 outside	46.0	58.1	65.2	41.0	51.0	56.2

Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Leq. Limit dB(A)

	Day	Night
Industrial areas	75	70
Commercial area	65	5 5
Residential area	55	45

Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A) Danger limit - 90 dB(A)

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

With ear protection -

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

No entry when noise level exceeds 140 dB(A)

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TEST REPORT

Table No. 5a

Stack Monitoring Report

Report No : N030125023

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: DG set 1

Instrument Used

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

Instrument Used

: Vayubhodhak /VSS-1 S. No.338-DTH-14

Calibration due date of instrument : 15.07.2025

Date of Sample Receipt

: 04.02.2025

Lab Code

: N/25/02/3-0301

Issue date

: 19.02.2025

GENRAL DETAILS

1	Fuel Used	Diesel				
2	Capacity (KVA)	250				
3	Stack height (M)			5		
4	Stack diameter (M)			0.13		
5	AmbientTemperature (C)		30		
6	Stack Temperature (°C))		148		
7	Velocity (m/s)			11.05		
8	Quanitity of flue Gas D (Nm³/hr)	246				
9	Sample Condition Whe	Satisfactory				
10	Model of the Equipmen	Vayubodhan Stack Sampler VSS1				
11	Serial No. of the Equip	338-DTH-2014				
12	Calibration done on an	15.07.2025				
13	Test Method			IS: 11255		
	Pollutional Parameters (Result)					
SI.No	Parameters	Unit	Results	Limits		
1	Nox +HC		0.100	≤ 4.0		
2	со	g/Kw-Hr	0.240	≤ 3.5		
3	РМ		0.020	≤ 0.2		

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TEST REPORT

Table No. 5b

Stack Monitoring Report

Report No: N030225023

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: DG set 2

Instrument Used

: Vayubhodhak /VSS-1 S. No.338-DTH-14

Calibration due date of instrument : 15.07.2025

Date of sample Collection

: 03.02.2025

Date of Sample Receipt

: 04.02.2025

Lab Code

: N/25/02/3-0302

Issue date

: 19.02.2025 GENRAL DETAILS

		GENKAL DE	TAILS			
1	Fuel Used	Fuel Used				
2	Capacity (KVA)	Capacity (KVA)				
3	Stack height (M)			5		
4	Stack diameter (M)	•		0.38		
5	AmbientTemperature (°C)		30		
6	Stack Temperature (°C))		280		
7	Velocity (m/s)			11.66		
8	Quanitity of flue Gas Di (Nm³/hr)	4251				
9	Sample Condition Whe	n Received		Satisfactory		
10	Model of the Equipmen	Vayubodhan Stack Sampler VSS1				
11	Serial No. of the Equip	338-DTH-2014				
12	Calibration done on an	15.07.2025				
13	Test Method	IS: 11255				
	P	ollutional Parame	ters (Result)			
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW		
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV .	17.2	. 710		
2	NHC (as C) (at 15% O2),	mg/Nm³	54.4	100		

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75

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mg/Nm3

mg/Nm³

56.0

45.9

PM (at 15% O2),

CO (at 15% O2),



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TEST REPORT

Table No. 5c

Stack Monitoring Report

Report No: N030425023

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: DG set 3

instrument Used

: Vayubhodhak /VSS-1 S. No.338-DTH-14

Calibration due date of instrument : 15.07.2025

Date of sample Collection

: 03.02.2025

Date of Sample Receipt

: 04.02.2025

Lab Code

: N/25/02/3-0303

Issue date

: 19.02.2025

		GENRAL DE	TAILS	
1	Fuel Used	Diesel		
2	Capacity (KVA)	1250		
3	Stack height (M)			5
4	Stack diameter (M)			0.38
5	AmbientTemperature (°C	;}		30
6	Stack Temperature (°C)			342
7	Velocity (m/s)			14.14
8	Quanitity of flue Gas Dis (Nm³/hr)	5156		
9	Sample Condition When	Satisfactory		
10	Model of the Equipment	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equipm	ent		338-DTH-2014
12	Calibration done on and	15.07.2025		
13	Test Method	IS: 11255		
	Pol	lutional Parame	ters (Result)	
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15%	PPMV	12.7	710

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100

75

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mg/Nm³

mg/Nm³

mg/Nm³

54.5

52.0

3

NHC (as C) (at 15%

PM (at 15% O2),

CO (at 15% O2),



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TEST REPORT

Table No. 5d

Stack Monitoring Report

Report No: N031425023

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services LLP)

Stack ID

: Stack of Dust Collectors

Instrument Used

: Vayubhodhak /VSS-1 S. No.338-DTH-14

Calibration due date of instrument : 15.07.2025

Date of sample Collection

: 04.02.2025

Date of Sample Receipt

: 04.02.2025

Lab Code

: N/25/02/3-0314

Issue date

: 19.02.2025

CENDAL DETAILS

l	GENRAL DE	TAILS	
1	Fuel Used	-	
2	Barometric pressure (mm of Hg)		705
3	Stack diameter (M)		0.74
4	AmbientTemperature (°C)		30
5	Stack Temperature (°C)		66
6	Velocity (m/sec)		12.64
7	Quanitity of flue Gas Discharged into atn (Nm³/hr)	osphere	17817
8	Sample Condition When Received		Satisfactory
9	Model of the Equipment used for Monitor	Vayubodhan Stack Sampler VSS1	
10	Serial No. of the Equipment	338 DTH 14	
11	Calibration done on and due on	15.07.2025	
12	Test Method		IS: 11255
	Pollutional Paramet	ers (Result)	
SI.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm3	38.1
2	NO _x as (NO ₂)	mg/Nm3	15.3
3	Particulate Matter (PM)	mg/Nm3	33.0

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Govt. Analyst / Authorised Signatory

ENVIRONMENTAL MONITORING REPORT January, 2025

PROJECT: BERGER PAINTS INDIA LIMITED,

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

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 1a

AMBIENT AIR QUALITY

Report No: N000125013

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

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

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

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature : Min 14.0°C Max 29.0°C

Relative Humidity : Min 38% Max 85%

Duration : 24 Hrs.

Issue Date : 22.01.2025

			•	Concenti	ation		
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH₃), μg/m³	Benzene (C ₆ H ₆), μg/m³
06.01.2025	N/25/01/Q3-0001	13	17	58	30	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rurat and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

		Concentration							
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O₃), μg/m³		
06.01.2025	N/25/01/03-0001	0.25	<0.1	<0.5	<0.5	0.48	30		
Limits for industrial,	1	1.0	20	6	1	4	180		
Residential, Rural and o	ther Areas	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr		

Note: * Parameters monitored for period of 1 hr

M. (Curi Lay) -M. SACHIN RAJU -T.M. - Chemical

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TEST REPORT

Table No. 1b

AMBIENT AIR QUALITY

Report No: N000225013

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A2 - Near ETP Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 14.0°C Max 29.0°C

Relative Humidity

: Min 38% Max 85%

Duration

: 24 Hrs.

Issue Date

: 22.01.2025

·			···· · · · · · · · · · · · · · · · · ·	Concent	ation		
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (μg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH₃), μg/m³	Benzene (C ₆ H ₆), μg/m³
06.01.2025	N/25/01/Q3-0002	11	15	63	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

			Concentration							
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Monovide*	Ozone* (O ₃), µg/m³			
06.01.2025	N/25/01/03-0002	0.22	<0.1	<0.5	<0.5	0.35	24			
Limits for Industrial ,		1.0	20	6	1	4	180			
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr			

Note: * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1c

AMBIENT AIR QUALITY

Report No: N000325013

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 14.0°C Max 29.0°C

Relative Humidity

: Min 38% Max 85%

Duration

: 24 Hrs.

Issue Date

: 22.01.2025

		Concentration							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), µg/m³		
06.01.2025	N/25/01/03-0003	9	11	54	29	<20	<1		
Limits for Industrial ,		80	80	100	60	400	5		
Residential, Rural and other	Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual		

		Concentration							
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O₃), μg/m³		
06.01.2025	N/25/01/03-0003	0.18	<0.1	<0.5	<0.5	0.25	22		
Limits for Industrial,		1.0	20	6	1	. 4	180		
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr		
Note : * Parameters :	monitored for peri	od of 1 hr	•	•	•				

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TEST REPORT

Table No. 1d

AMBIENT AIR QUALITY

Report No: N000425013

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A4 - Near Green Belt Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 14.0°C Max 29.0°C

Relative Humidity

: Min 38% Max 85%

Duration

: 24 Hrs.

Issue Date

: 22.01.2025

			Concentration							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m ³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃), μg/m³	Benzene (C ₆ H ₆), µg/m³			
06.01.2025	N/25/01/03-0004	8	14	50	26	<20	<1			
Limits for Industrial,		80	80	100	60	400	5			
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual			

". ·" · · · · · · · · · · · · · · · · ·				Concent	ration	· ····································	···
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m³	Monovide*	Ozone* (O ₃), μg/m³
06.01.2025	N/25/01/03-0004	0.26	<0.1	<0.5	<0.5	0.42	25
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and o	ther Areas	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
Note : * Parameters :	monitored for neri	od of 1 hr					

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY

VOC TEST REPORT

Report No :N0104-010725012

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

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

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 06.01.2025

Issue Date : 22.01.2025

	Location	WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
	Lab code	N/25/01/02-0104	N/25/01/02-0105	N/25/01/02-0106	N/25/01/02-0107
SI No	Parameters	- Result μg/m³	Result μg/m³	Result µg/m³	Result µg/m³
1	voc	BDL	BDL	1.10	BDL

Note: BDL < 1.0 µg/m3

M. Chemical

Govt. Analyst / Authorised Signatory



(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 1i

AMBIENT AIR QUALITY

HYDROCARBONS TEST REPORT

Report No :N0001-000425013

Project: Berger Paints India Limited, Industrial Park,

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

Sample Collected by: Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used: Envirotech APM 850/33 DTA 2018

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 06.01.2025

Issue Date : 22.01.2025

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

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Govt. Analyst / Authorised Signatory

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(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 2a

Report No.: N009425012

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Nature of Sample

: Raw Effluent water

Date of sample collection Date of sample receipt

: 06.01.2025 : 07.01.2025

Lab Code

: N/25/01/02-0094

Issue Date

: 22.01.2025

Ref Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

SI. **Parameters** Result Method of Testing No. 1 þΗ 8.06 IS 3025 (P-11) 2022 Oil & Grease (mg/l), Max < 0.1 IS 3025 (P-39) 2021 Phenolic Compounds as C₆H₅OH (mg/l), < 0.001 IS 3025 (P-43) Sec 1 2022 Max Dissolved Solids (inorganic) mg/l, Max. 650 IS 3025 (P-16) 2023 8 Suspended Solids (mg/l), Max IS 3025 (P-17) 2022 6 < 0.01 Lead as Pb (mg/l), Max APHA 23rd Edition 3030K 7 Copper as Cu (mg/l), Max < 0.05 APHA 23rd Edition 3030K Zinc as Zn (mg/l), Max < 0.05 APHA 23rd Edition 3030K Nickel as Ni (mg/l), Max < 0.05 APHA 23rd Edition 3030K Total Chromium as Cr(mg/l), Max 10 < 0.01 APHA 23rd Edition 3030K Hexavalent Chromium as Cr+6 (mg/l), Max < 0.03 IS 3025 (P-52) 12 COD (mg/l), Max 680 IS 3025 (P-58) 2023 BOD [3 days at 27°C] (mg/l), Max 52.0 13 IS 3025 (P-44) 2023 10% survival of IS 6582:1971 RA2019 14 Bio-assay test fish after 96 hrs

"" END OF REPORT""

in 100% effluent

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Note: This report is subject to the terms and conditions mentioned overleaf.



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TEST REPORT

Table No. 2b

Report No: N009525012

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services) : Effluent Treated Plant water

Nature of Sample

: 06.01.2025

Date of sample collection Date of sample receipt

: 07.01.2025

Lab Code Issue Date

: N/25/01/02-0095

: 22.01.2025

		7 2210 112020		
Sí. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	рН	8.20	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	. 1950	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	40.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/i), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10.	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	90	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27 ⁰ C] (mg/l), Max	10.5	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT""

Helau M.SACHIN RAJU T.M. - Chemical

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TEST REPORT

Table No. 4a

Report No: N009825012

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project

Industrial Park, Thumakunta village,

Sample Collected by

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected

: DW1. Drinking water Base Block first floor

Date of sample collection

: 06.01.2025

Lab Code Issue Date : N/25/01/02-0098 : 22.01.2025

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

\$ł. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1 Col	our (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2 Ode	our	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3 pH	Value	7.07	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4 Tas	ste	Agreeable	Agreeable	Agreeable	I\$:3025 (P- 8) 2023
5 Turi	bidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6 Ele	ctrical Conductvity (µmhos/cm)	24.0			IS 3025 (P-14) 2013 RA 2019
7 Tota	al Dissolved Solids,mg/l, Max	25.0	500	2000	IS:3025 (P-16) 2023
8 Alui	minium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9 Am	monia (as total Ammonia -N),mg/l, x	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10 Anio	onic Detergents (as MBAS),mg/, xl	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11 Bari	ium (as Ba), mg/l, Max	< 0.005	0.7	0.7	IS:3025(P-2) 2019
12 Bor	on (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13 Cal	cium (as Ca),mg/l, Max	<2	75	200	IS:3025 (P-40)1991 RA 2019
14 Cop	pper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15 Chi	oride as CI (mg/l),mg/l, Max	10.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16 Fluc	oride (as F),mg/i, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
	sidual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18 Chic	oramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
19 Iron	ı (as Fe),mg/l, Max	< 0.005	1.0	1.0	IS:3025 (Part-2) 2019
20 Mag	nesium (as Mg)mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
1 Mar	nganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
2 Min	eral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
3 Nitra	ates (as NO₃),mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
24 Phe	enolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
	enium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
	er (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
-	ybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
	phates (as SO ₄),mg/l, Max	1,0	200	400	IS:3025 (P-24) Sec 1 2022
	phide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
	alinity (as CaCO ₃) mg/l, Max	8.00	200	600	IS:3025 (P-23) 2023
	al Hardness (as CaCO ₃),mg/l,Max	8.0	200	600	IS:3025 (P-21):2009 RA 2019
	(as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
	lmium (as Cd),mg/l, Max	<0.001	0.003	0.003	!S:3025 (P-2) 2019
_	nide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	d (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
	cury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
	kel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
	enic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
	al Chromium (as Cr),mg/l, Max	<0.002	0.05	0.05	IS:3025 (P-2) 2019
	berichia coli/100ml	Not Detected	Shall not be		IS:15185:2016 RA 2021
41 Tota	Coliform /100ml)	Not Detected	алу 100гг	ıl Sampte	IS:15185:2916 RA 2021
	2im)	"END OF I	PEPOPT"	···· ·· ·· · · · · · · · · · · · · · ·	- Juliuf 9

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TEST REPORT

Table No. 4b

Report No: N009925012

Name of the Client

M/s. Berger Paints India Limited,

Name of the Project

Industrial Park, Thumakunta village,

Sample Collected by

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected

: DW2. Drinking water canteen parking area

Date of sample collection

: 06.01.2025

Lab Code issue Date : N/25/01/02-0099 : 22.01.2025

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Ker	: 15:10500-2012 Norms Amendmen	t - 4 (Drinking v	vater Stanga	ras)	
SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.85	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 Conductvity (µmhos/cm)	95			IS 3025 (P-14) 2013 RA 2019
. 7	Total Dissolved Solids,mg/l, Max	50	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	< 0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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
	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	4	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	20.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as 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
	Magnesium (as Mg)mg/l, Max	1.9	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃) mg/l, Max	1.5	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
	Selenium (as Se),mg/l	< 0.005	0.01	0.01	IS:3025(P-2) 2019
	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
	Molybdenum (as Mo), mg/l, Max	< 0.001	0.07	0.07	IS:3025 (P-2) 2019
	Sulphates (as SO ₄),mg/l, Max	2.5	200	400	IS:3025 (P-24) Sec 1 2022
	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
	Alkalinity (as CaCO ₃) mg/l, Max	20	200	600	IS:3025 (P-23) 2023
	Total Hardness (as CaCO ₃),mg/l,Max	18.0 .	200	600	IS:3025 (P-21):2009 RA 2019
	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	Lead (as Pb),mg/f, Max	<0.005	0.00	0.01	IS:3025 (P-2) 2019
$\overline{}$	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
_	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.001	IS:3025 (P-2) 2019
	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
			<u> </u>		
 4	Escherichia coli/100ml Tota(Coliform /100ml)	Not Detected Not Detected		detectable in il Sample	IS:15185:2016 RA 2021 IS:15185:2 (16 RA 2021
┰	Rim)	"END OF F	PEPORT"	******	- Truling 9

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Name of the Client

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: N010025012

: M/s. Berger Paints India Limited,

Name of the Project : Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Sample Collected by : Environmental Laboratory (Unit of Mineral Enginee Particulars of sample collected : DW3. Drinking water Near Raw Material Area

 Date of sample collection
 : 06.01.2025

 Lab Code
 : N/25/01/02-0100

 Issue Date
 : 22.01.2025

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

61	: IS:10500-2012 Norms Amendmen	T . (2	1	T .	
SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Cofour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.68	6.5 to 8.5	6.5 - 8.5	JS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	44.00			IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	24.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	I\$:3025(P-2) 2019
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	<2.0	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	9.00	250	1000	IS:3025 (P-32) 1988 RA 2019
	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
	Iron (as Fe),mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
_	Magnesium (as Mg)mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
2	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	<1	45	45	IS:3025 (P-34) Sec 1 2023
	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
-	Setenium (as Se),mg/l	<0.005	0.001	0.01	IS:3025(P-2) 2019
	Silver (as Ag), mg/l. Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
	Molybdenum (as Mo), mg/l, Max	<0.003	0.07	0.07	IS:3025 (P-2) 2019
	Sulphates (as SO ₄),mg/l, Max	1.10	200	400	IS:3025 (P-24) Sec 1 2022
~~~	Sulphide (as H ₂ S) , mg/t, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
$\overline{}$		6.0	200	600	IS:3025 (P-23) 2022
_	Alkalinity (as CaCO ₃ ) mg/l, Max Total Hardness (as CaCO ₃ ),mg/l,Max	8.0	200	600	<del></del>
	· · · · · · · · · · · · · · · · · · ·	<0.005	5	15	IS:3025 (P-21):2009 RA 2019
-	Zinc (as Zn),mg/i, Max	<0.003	0.003	0.003	IS:3025 (P-2) 2019
-	Cadmium (as Cd),mg/l, Max			0.003	IS:3025 (P-2) 2019
_	Cyanide (as CN),mg/l, Max	<0.01	0.05		IS:3025 (P-27)Sec 1 2021
	Lead (as Pb).mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
_	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
$\rightarrow$	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
$\overline{}$	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		detectable in of Sample	IS:15185:2016 RA 2021
47	Total Colliform /100ml)	Not Detected	5,1,7,001,	Campio	IS:15185:2016 RA 2021

BINU MANI T.M. - Microbiology "END OF REPORT"

ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

Govt. Analyst / Authorised Signatory

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# **ENVIRONMENTAL LABORATORY**

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### **TEST REPORT**

Table No. 5

### **NOISE LEVEL DATA**

Report No: ELMES012501

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

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

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

Instrument Used: HTC SL-1352 Data Logger

Calibration due date of instrument : 10.12.2025

Date of sample collection: 06.01.2025

Issue Date : 22.01.2025

Code	R# i4 i 4 - 4 i		Day			Nigt		
No.	Monitoring stations	L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L max	
N1	WBP Manufacturing building 1 st floors	46.0	53.4	58.0	40.5	45.4	49.0	
N2	Near Gate No 1 outside	46.7	56.7	62.1	35.0	43.9	55.4	
N3	RMS Area	40.7	54.3	60.8	39.0	48.3	51.5	
N4	DG Set Area at 1mtr distance	45.9	55.3	61.5	38.0	49.2	57.0	
N5	Near Gate No 2 outside	46.3	57.7	63.4	36.0	50.6	55.0	

### Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Leq. Limit dB(A)

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

### Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

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

With ear protection -

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

No entry when noise level exceeds 140 dB(A)

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### **TEST REPORT**

Table No. 6a

### Stack Monitoring Report

Report No : N010125012

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 1

Instrument Used

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 06.01.2025

Date of Sample Receipt

: 07.01.2025

Lab Code

: N/25/01/02-0101

Issue date

: 22.01.2025

**GENRAL DETAILS** 

		GENERAL DI	I : AILS	
1	Fuel Used			Diesel
2	Capacity (KVA)			250
3	Stack height (M)	***		5
4	Stack diameter (M)			0.13
5	AmbientTemperature (	°C)		28
6	Stack Temperature (°C	)		142
7	Velocity (m/s)			11.09
8	Quanitity of flue Gas D (Nm³/hr)	ischarged into at	mosphere	241
9	Sample Condition Whe	en Received		Satisfactory
10	Model of the Equipmen	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equip	ment		338-DTH-2014
12	Calibration done on an	d due on		17.11.2025
13	Test Method			IS: 11255
	. Р	ollutional Parame	eters (Result)	
SI.No	Parameters	Unit	Results	Limits
1	Nox +HC		0.100	≤ 4.0
2	со	g/Kw-Hr	0.232	≤ 3.5
3	PM		0.014	≤ 0.2

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### **TEST REPORT**

Table No. 6b

### **Stack Monitoring Report**

Report No: N010225012

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 2

Instrument Used

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 06.01.2025

Date of Sample Receipt

: 07.01.2025

: 22.01.2025

Lab Code

: N/25/01/02-0102

Issue date

GENRAL DETAILS

ŧ		GENRAL DE	TAILS	
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)			272
7	Velocity (m/s)			11.50
8	Quanitity of flue Gas Dis (Nm³/hr)	4222		
9	Sample Condition When	Satisfactory		
10	Model of the Equipment	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equipn	nent		338-DTH-2014
12	Calibration done on and	i due on		17.11.2025
13	Test Method	IS: 11255		
	Po	Ilutional Parame	ters (Result)	
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
-1	NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis	PPMV	17.1	710

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Govt. Analyst / Authorised Signatory

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mg/Nm³

mg/Nm3

mg/Nm3

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43.2

52.0

39.7

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O2),

NHC (as C) (at 15%

PM (at 15% O2).

CO (at 15% O2),



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### TEST REPORT

Table No. 6c

### Stack Monitoring Report

Report No: N010325012

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 3

Instrument Used

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 06.01.2025

Date of Sample Receipt

: 07.01.2025

Lab Code Issue date : N/25/01/02-0103

: 22.01.2025

		GENRAL DE	ETAILS	
1	Fuel Used			Diesel
2	Capacity (KVA)			1250
3	Stack height (M)			5
4	Stack diameter (M)		•	0.38
5	AmbientTemperature (	28		
6	Stack Temperature (°C)	330		
7	Velocity (m/s)	14.12		
8	Quanitity of flue Gas Di (Nm ³ /hr)	5182		
9	Sample Condition Whe	Satisfactory		
10	Model of the Equipmen	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equip	nent		338-DTH-2014
12	Calibration done on an	d due on	Ì	17.11.2025
13	Test Method			IS: 11255
	Po	ollutional Parame	ters (Result)	
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW

	Pollutional Parameters (Result)								
SI.No	Parameters Unit R		Results	DG Limits 0.8MW to 75MW					
1	$NO_x$ as ( $NO_2$ ) (at 15% $O_2$ ), Dry basis	PPMV	. 11.7	710					
2	NHC (as C) (at 15% O2),	mg/Nm³	48.2	100					
3	PM (at 15% O2),	mg/Nm³	45.0	75					
4	CO (at 15% O2),	rng/Nm³	27.6	150 M. (a)					

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### **TEST REPORT**

Table No. 6d

### Stack Monitoring Report

Report No: N011025012

Name of the industry

: Berger Paints India Limited,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: Stack of Dust Collectors

Instrument Used

Vayubhodhak /VSS-1 S. No.338-DTH-2014

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 07.01.2025

Date of Sample Receipt

: 07.01.2025

Lab Code Issue date : N/25/01/02-0110

: 27.01.2025

	GENRAL DE	TAILS		
1	Fuel Used	-		
2	Barometric pressure ( mm of Hg)		705	
3	Stack diameter (M)		0.74	
4	AmbientTemperature (°C)		28	
5	Stack Temperature (°C)		62	
6	Velocity (m/sec)		12.56	
7	Quanitity of flue Gas Discharged into atm (Nm ³ /hr)	17758		
8	Sample Condition When Received	Satisfactory		
9	Model of the Equipment used for Monito	Vayubodhan Stack Sampler VSS1		
10	Serial No. of the Equipment	338 DTH 14		
11	Calibration done on and due on	Due on 17.11.2025		
12	Test Method		iS: 11255	
	Pollutional Paramet	ters (Result)		
SI.No	Parameters	Unit	Results	
1	Sulphur Dioxide (SO₂)	mg/Nm3	36.2	
2	NO _x as (NO ₂ )	mg/Nm3	15.2	
3	Particulate Matter (PM)	mg/Nm3	28/10/. (aus	

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# ENVIRONMENTAL MONITORING REPORT December, 2024

PROJECT: BERGER PAINTS INDIA LIMITED,

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

# ENVIRONMENTAL LABORATORY (Unit of Mineral Engineering Services)

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



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### **TEST REPORT**

Table No. 1a

### AMBIENT AIR QUALITY

Report No: N000124124

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

Relative Humidity

: Min 54% Max 79%

Duration

: 24 Hrs.

**Issue Date** 

: 25.12.2024

		Concentration						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m ³	Nitrogen Dioxide (NO₂), μg/m³	PM _{10,} (µg/m³)	P <b>M</b> _{2.5,} (μg/m³)	Ammonia (NH ₃ ), µg/m ³	Benzene (C ₆ H ₆ ), μg/m³	
09.12.2024	N/24/12/4-0001	10	16	40	28	<20	<1	
Limits for Industrial, Residential, Rural and other	r 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/m³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃ ), μg/m	
09.12.2024	N/24/12/4-0001	0.18	<0.1	<0.5	<0.5	0.33	28	
Limits for Industrial ,		1.0	20	6	1	4	180	
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr	

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### **TEST REPORT**

Table No. 1b

### AMBIENT AIR QUALITY

Report No: N000224124

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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: A2 - Near ETP Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

**Relative Humidity** 

: Min 54% Max 79%

Duration

: 24 Hrs.

Issue Date

: 25.12.2024

		Concentration						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m ³	Nitrogen Dioxide (NO ₂ ), μg/m ³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m ³ )	Ammonia (NH ₃ ), μg/m ³	Benzene (C ₆ H ₆ ), µg/m ³	
09.12.2024	N/24/12/4-0002	13	18	59	32	<20	<1	
Limits for Industrial , Residential, Rural and other	r Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual	

7/		Concentration							
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃ ), μg/m ²		
09.12.2024	N/24/12/4-0002	0.26	<0.1	<0.5	<0.5	0.42	25		
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr		

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### TEST REPORT

Table No. 1c

### AMBIENT AIR QUALITY

Report No: N000324124

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

Relative Humidity

: Min 54% Max 79%

Duration

: 24 Hrs.

Issue Date

: 25.12.2024

	2000	Concentration							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m ³	Nitrogen Dioxide (NO ₂ ), μg/m ³	PM _{10,} (μg/m³)	P <b>M</b> _{2.5,} (μg/m³)	Ammonia (NH ₃ ), μg/m ³	Benzene (C ₆ H ₆ ), μg/m ³		
09.12.2024	N/24/12/4-0003	7	9	35	22	<20	<1		
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual		

*	*		Concentration							
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m³	Ozone* (O₃), μg/m			
09.12.2024	N/24/12/4-0003	0.11	<0.1	<0.5	<0.5	0.23	20			
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr			

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### **TEST REPORT**

Table No. 1d

### AMBIENT AIR QUALITY

Report No: N000424124

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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: A4 - Near Green Belt Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 24.03.2025

Barometric pressure : 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

**Relative Humidity** 

: Min 54% Max 79%

Duration

: 24 Hrs.

Issue Date

: 25.12.2024

			Statement settlement seeden war	Servicios su un un secono de la companya de la comp			
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), μg/m ³	Nitrogen Dioxide (NO₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5.} (μg/m³)	Ammonia (NH ₃ ), µg/m ³	Benzene (C ₆ H ₆ ), µg/m³
09.12.2024	N/24/12/4-0004	11	13	55	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

(4)		Concentration							
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m³	Ozone* (O₃), μg/m³		
09.12.2024	N/24/12/4-0004	0.12	<0.1	<0.5	<0.5	0.31	22		
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr		

Note: * Parameters monitored for period of 1 hr

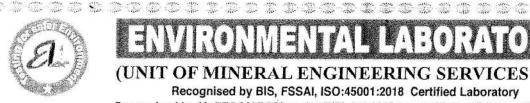
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Note: This report is subject to the terms and conditions mentioned overleaf.



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### **TEST REPORT**

Table No. 1h

### AMBIENT AIR QUALITY

VOC TEST REPORT

Report No: N0332-33524123

Project: Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

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

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 09.12.2024

Issue Date

: 25.12.2024

Location		ocation WB manufacturing building		Tank yard	QC Lab	
	Lab code	N/24/12/3-0332	N/24/12/3-0333	N/24/12/3-0334	N/24/12/3-0335	
SI No	Parameters	· Result μg/m³	Result µg/m³	Result µg/m³	Result µg/m³	
1	1 VOC BDL		BDL	1.08	BDL	

Note: BDL < 1.0 µg/m³

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### **TEST REPORT**

Table No. 1i

### **AMBIENT AIR QUALITY**

HYDROCARBONS TEST REPORT

Report No :N0001-000424124

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used: Envirotech APM 850/33 DTA 2018

Calibration due date of instrument: 24.03.2025

Date of Monitoring: 09.12.2024

Issue Date : 25.12.2024

	Location DG Set Back Side (250KVA & 1250KVA)		Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing
SI No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	3
1	Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -19)1979 (RA 2009)
2	Non Methane	<1.0	<1.0	<1.0	<1.0	IS 5182 (P -21)2001

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### (UNIT OF MINERAL ENGINEERING SERVICES LLP)

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### TEST REPORT

Table No. 2a

Report No: N031724123

Name of the Project

: Berger Paints India Limited, Industrial Park

Sample Collected by

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

I by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Location of Sampling

: Raw Effluent water

Date of sample collection

: 09.12.2024

Date of sample receipt

: 10.12.2024

Lab Code

: N/24/12/3-0317

Issue Date

Ref

: 25.12.2024

: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Kei		: Environmenta	1 (P) Rules, 1986 SCHEDULE 1,- 01.01.2016		
SI. No.	Parameters	Result	Method of Testing		
1	рН	8.04	IS 3025 (P-11) 2022		
2	Oil & Grease (mg/l), Max	<1.0	IS 3025 (P-39) 2021		
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022		
4	Dissolved Solids (inorganic) mg/l, Max.	1780	IS 3025 (P-16) 2023		
5	Suspended Solids (mg/l), Max	168	IS 3025 (P-17) 2022		
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K		
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
8	Zinc as Zn (mg/l), Max *	<0.05	APHA 23rd Edition 3030K		
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K		
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K		
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)		
12	COD (mg/l), Max	720	IS 3025 (P-58) 2023		
13	BOD [3 days at 27 ⁰ C] (mg/l), Max	56.0	IS 3025 (P-44) 2023		
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019		

"" END OF REPORT"

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Govt. Analyst / Authorised Signatory

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

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

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#### **TEST REPORT**

Table No. 2b

Report No: N031824123

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

Location of Sampling

(Unit of Mineral Engineering Services) : Effluent Treated Plant water

Date of sample collection

: 09.12.2024

Date of sample receipt

: 10.12.2024

Lab Code Issue Date : N/24/12/3-0318 : 25.12.2024

SI. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	рН	8.15	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1500	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	12.5	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max .	<0.05	5.0	APHA 23rd Edition 3030K
9	Nicket as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	96	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	11.7	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

**END OF REPORT"** 

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## **ENVIRONMENTAL LABORATORY**

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#### **TEST REPORT**

Table No. 4a

Report No : N032024123

Name of the Client Name of the Project : M/s. Berger Paints India Limited, : Industrial Park, Thumakunta village,

Sample Collected by

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected

: DW1. Drinking water Base Block first floor

Date of sample collection Lab Code : 09.12.2024 · N/24/12/3-0320

Issue Date

: N/24/12/3-0320 : 25.12.2024

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.60	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	40.0		-	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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
	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
	Calcium (as Ca),mg/l, Max	<2.0	75	200	IS:3025 (P-40)1991 RA 2019
	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as CI (mg/l),mg/l, Max	12.00	250	1000	IS:3025 (P-32) 1988 RA 2019
	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
	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
	Magnesium (as Mg)mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
	Nitrates (as NO ₃ ),mg/l, "Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
	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
	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 CaCO₃) mg/i, Max	8.00	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃ ),mg/l,Max	6.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
$\overline{}$	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
	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
	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
-4	Escherichia coli/100ml	Not Detected		detectable in	IS:15185:2016 RA 2021
41	Total Coliform /100ml)	Not Detected	any 100m	ni Sample	IS:15185:2016 RA 2021

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Name of the Client

Sample Collected by

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#### TEST REPORT

Table No. 4b

Report No: N032124123

: M/s. Berger Paints India Limited,

Name of the Project Industrial Park, Thumakunta village,

> Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected : DW2. Drinking water canteen parking area

Date of sample collection 09.12.2024 Lab Code : N/24/12/3-0321 Issue Date : 25.12.2024

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.93	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	110			IS 3025 (P-14) 2013 RA 201
7	Total Dissolved Solids,mg/l, Max	60	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxt	<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/t, Max	2.4	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	iS:3025 (P-2)2019
15		17.0	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as 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	2.8	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	< 0.005	0.01	0.01	IS:3025(P-2) 2019
~····	Silver (as Ag), mg/l, Max	< 0.005	0.1	0.1	IS:3025(P-2) 2019
	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
	Sulphates (as SO ₄ ),mg/l, Max	3.62	200	400	IS:3025 (P-24) Sec 1 2022
	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
	Alkalinity (as CaCO ₃ ) mg/l, Max	22	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃ ),mg/l,Max	10.0	200	600	IS:3025 (P-21):2009 RA 2019
_	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
	Cadmium (as Cd),mg/i, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
_	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
	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 41	Escherichia coli/100ml Total Coli(orm /100ml)	Not Detected Not Detected	Shall not be any 100m	detectable in If Sample	IS:15185:2016 RA 2021 IS:15185:2016 RA 2021
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#### **TEST REPORT**

Table No. 4c

Report No: N032224123

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project

Industrial Park, Thumakunta village,

Sample Collected by

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected

Date of sample collection

: DW3. Drinking water Raw Material Area

Date of sample collecti Lab Code Issue Date : 09.12.2024 : N/24/12/3-0322 : 25.12.2024

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

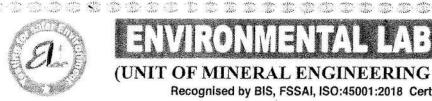
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No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.55	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	<0.1	-	-	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	38.0	500	2000	JS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
Φ.	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/, Maxl	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	1.60	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	9.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
	Iron (as Fe),mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
	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
	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO₃),mg/l, *Max	<1	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	< 0.005	0.01	0.01	IS:3025(P-2) 2019
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2) 2019
28	Sulphates (as SO ₄ ),mg/l, Max	<1	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃ ) mg/l, Max	8.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃ ),mg/l,Max	6.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	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/i, 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		IS:15185:2016 RA 2021
<b>3</b> /1	Total Coliform /100ml)	Not Detected	any 100m	I Sample	IS:15185:2016 RA 2021

BINU MANI T.M. - Microbiology "END OF REPORT"

ARSHIYA KOUSAR Dy. T.M. - Chemical

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#### TEST REPORT

Table No. 5

#### **NOISE LEVEL DATA**

Report No: ELMES042412

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

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

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

Instrument Used: HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2025

Date of sample collection: 09.12.2024

Issue Date: 25.12.2024

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

#### Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Lea. Limit dB(A)

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

#### Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

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

With ear protection -

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

No entry when noise level exceeds 140 dB(A)

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#### **TEST REPORT**

Table No. 6a

#### Stack Monitoring Report

Report No : N032324123

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

Name of the Industry

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 1

Instrument Used

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 09.12.2024

Date of Sample Receipt

: 10.12.2024

Lab Code

: N/24/12/3-0323

Issue date

: 25.12.2024

#### **GENRAL DETAILS**

1	Fuel Used			Diesel
2	Capacity (KVA)	250		
3	Stack height (M)			5
4	Stack diameter (M)			0.13
5	AmbientTemperature (	°C)		28
6	Stack Temperature (°C	<del>;</del> )		133
7	Velocity (m/s)			11.08
8	Quanitity of flue Gas E (Nm³/hr)	ischarged into at	mosphere	247
9	Sample Condition Wh	en Received		Satisfactory
10	Model of the Equipme	nt used for Monito	oring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equip	ment		338-DTH-2014
12	Calibration done on a	nd due on		17.11.2025
13	Test Method			IS: 11255
	F	ollutional Parame	eters (Result)	
SI.No	Parameters	Unit	Results	Limits
1	Nox +HC		0.095	≤ 4.0
2	со	g/Kw-Hr	0.230	≤ 3.5
3	РМ		0.018	≤ 0.2

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#### TEST REPORT

Table No. 6b

#### Stack Monitoring Report

Report No : N032424123

Name of the Industry : Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID : DG set 2

Instrument Used : Vayubho

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection : 09.12.2024

Date of Sample Receipt : 10.12.2024

Lab Code : N/24/12/3-0324

Issue date

: 25.12.2024

**GENRAL DETAILS** 

1	Fuel Used			Diesel			
2	Capacity (KVA)	Capacity (KVA)					
3	Stack height (M)			5			
4	Stack diameter (M)			0.38			
5	AmbientTemperature (	AmbientTemperature (°C)					
6	Stack Temperature (°C	266					
7	Velocity (m/s)	11.60					
8	Quanitity of flue Gas D (Nm ³ /hr)	ischarged into at	mosphere	4258			
9	Sample Condition Whe	n Received		Satisfactory			
10	Model of the Equipmer	nt used for Monito	oring ·	Vayubodhan Stack Sampler VSS1			
11	Serial No. of the Equip	ment		338-DTH-2014			
12	Calibration done on an	d due on		17.11.2025			
13	Test Method			IS: 11255			
	P	ollutional Parame	eters (Result)				
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW			
1	$NO_x$ as $(NO_2)$ (at 15% $O_2$ ). Dry basis	PPMV	28.7	710			
2	NHC (as C) (at 15% O2),	mg/Nm³	46.4	100			
3	PM (at 15% O2),	mg/Nm ³	46.0	75			
4	CO (at 15% O2),	mg/Nm³	33.4	150			

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#### **TEST REPORT**

Table No. 6c

#### Stack Monitoring Report

Report No : N032524123

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 3

Instrument Used

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 09.12.2024

Date of Sample Receipt

: 10.12.2024

Lab Code Issue date : N/24/12/3-0325

: 25.12.2024

**GENRAL DETAILS** 

1	Fuel Used			Diesel		
2	Capacity (KVA)	Capacity (KVA)				
3	Stack height (M)			5		
4	Stack diameter (M)			0.38		
5	AmbientTemperature (®	28				
6	Stack Temperature (°C)	Stack Temperature (°C)				
7	Velocity (m/s)			13.91		
8	Quanitity of flue Gas Di (Nm ³ /hr)	scharged into at	mosphere	5108		
9	Sample Condition When	n Received		Satisfactory		
10	Model of the Equipmen	t used for Monito	oring	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equipm	nent		338-DTH-2014		
12	Calibration done on and due on			17.11.2025		
13	Test Method			IS: 11255		
	Po	ollutional Parame	eters (Result)			
Si.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW		
1	NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis	PPMV	33.3	710		
2	NHC (as C) (at 15% O2),	mg/Nm³	51.1	100		
3	PM (at 15% O2),	mg/Nm³	49.0	75		
4	CO (at 15% O2),	mg/Nm³	31.8	150		

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#### **TEST REPORT**

Table No. 6d

Report No: N033624123

#### Stack Monitoring Report

: Berger Paints India Limited...

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

Name of the Industry

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: Stack of Dust Collectors

Instrument Used

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

Calibration due date of instrument : 17.11.2025

Date of sample Collection

: 10.12.2024

Date of Sample Receipt

: 10.12.2024

Lab Code

: N/24/12/3-0336

Issue date

: 25.12.2024

issue	date : 25.12.2024		
	GENRAL DE	TAILS	
1	Fuel Used		-
2	Barometric pressure ( mm of Hg)	<del> </del>	705
3	Stack diameter (M)		0.74
4	AmbientTemperature ( ⁰ C)		28
5	Stack Temperature (°C)	_	55
6	Velocity (m/sec)		12.42
7	Quanitity of flue Gas Discharged into atr (Nm ³ /hr)	nosphere	17507
8	Sample Condition When Received		Satisfactory
9	Model of the Equipment used for Monito	ring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment		338 DTH 14
11	Calibration done on and due on		Due on 17.11.2025
12	Test Method		IS: 11255
	Pollutional Paramet	ters (Result)	
SI.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂ )	mg/Nm3	38.2
2	NO _x as (NO ₂ )	mg/Nm3	14.1
3	Particulate Matter (PM)	mg/Nm3	23.0

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# ENVIRONMENTAL MONITORING REPORT November, 2024

PROJECT: BERGER PAINTS INDIA LIMITED,

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

#### **ENVIRONMENTAL LABORATORY**

(Unit of Mineral Engineering Services)

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



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#### TEST REPORT

Table No. 1a

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#### AMBIENT AIR QUALITY

Report No: N000124114

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

Relative Humidity

: Min 54% Max 79%

Duration

: 24 Hrs.

Issue Date

: 25.11.2024

	:	Concentration						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m³	Nitrogen Dioxide (NO₂), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m ³ )	Ammonia (NH ₃ ), µg/m ³	Benzene (C ₆ H ₆ ), μg/m³	
11.11.2024	N/24/11/4-0001	14	18	58	33	<20	<1	
Limits for Industrial,	<del>*************************************</del>	80	80	100	60	400	5	
Residential, Rural and other	Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual	

senic As), g/m ³ Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O₃), μg/m³
ng/in	(00), mg/m	
<0.5 <0.5	0.45	28
6 1	4	180
nnual Annual	1 Hr	1 Hr

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### **TEST REPORT**

Table No. 1b

#### **AMBIENT AIR QUALITY**

Report No: N000224114

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location : A2 - Near ETP Area

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

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

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

Calibration due date of instrument : 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 28.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 25.11.2024

				Concent	ration	•	
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), μg/m ³	Nitrogen Dioxide (NO ₂ ), μg/m ³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃ ), µg/m ³	Benzene (C ₆ H ₆ ), µg/m³
11.11.2024	N/24/11/4-0002	12	13	53	30	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

				Concent	ration		
Date of Sampling	Lab Gode	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃ ), μg/m³
11.11.2024	N/24/11/4-0002	0.18	<0.1	<0.5	<0.5	0.38	26
Limits for Industrial ,	•	1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
Note: * Parameters monitored for period of 1 hr							

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Note: This report is subject to the terms and conditions mentioned overleaf.



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#### TEST REPORT

Table No. 1c

#### AMBIENT AIR QUALITY

Report No: N000324114

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

Relative Humidity

: Min 54% Max 79%

Duration

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: 24 Hrs.

Issue Date

: 25.11.2024

		Concentration						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), μg/m³	Nitrogen Dioxide (NO₂), µg/m³	PM _{10,} (μg/m³)	PM _{2,5,} (μg/m³)	Ammonia (NH ₃ ), µg/m³	Benzene (C _e H _e ), µg/m³	
11.11.2024 N/24/11/4-0003		9	12	49	26	<20	<1	
Limits for Industrial ,		80	80	100	60	400	5	
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual	

		Concentration					
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Monovide*	Ozone* (O₃), μg/m³
11.11.2024	N/24/11/4-0003	0.13	<0.1	<0.5	<0.5	0.28	23
Limits for Industrial,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

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#### TEST REPORT

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#### AMBIENT AIR QUALITY

Report No: N000424114

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A4 - Near Green Belt Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure

: 705 mm of Hg

Temperature

: Min 18.0°C Max 28.0°C

Relative Humidity

: Min 54% Max 79%

Duration

: 24 Hrs.

Issue Date

: 25.11.2024

				Concent	ration		
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m³	Nitrogen Dioxide (NO ₂ ), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃ ), µg/m ³	Benzene (C ₆ H ₆ ), µg/m³
11.11.2024 N/24/11/4-0004		11	14	37	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

	ĺ			Concent	ration		
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monovide*	Ozone* (O₃), μg/m³
11.11.2024	N/24/11/4-0004	0.25	<0.1	<0.5	<0.5	0.33	20
Limits for Industrial ,	1	1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual Annual 1 Hr	1 Hr		

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#### **TEST REPORT**

Table No. 1h

### **AMBIENT AIR QUALITY**

VOC TEST REPORT

Report No :N0290-029324113

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

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

Calibration due date of instrument: 10.12.2024

Date of Monitoring: 11.11.2024

Issue Date : 25.11.2024

Location		WB manufacturing building Raw Material 1 st floor,		Tank yard	QC Lab
Lab code		N/24/11/3-0290	N/24/11/3-0291	N/24/11/3-0292	N/24/11/3-0293
Si No	Parameters	Result µg/m³	Result µg/m³	Result μg/m³	Result μg/m³
1 VOC BI		BDL	BDL	1.05	BDL

Note: BDL < 1.0 µg/m³

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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## **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. 1i

### **AMBIENT AIR QUALITY**

HYDROCARBONS TEST REPORT

Report No :N0001-000424114

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used: Envirotech APM 850/33 DTA 2018

Calibration due date of instrument: 10.12.2024

Date of Monitoring: 11.11.2024

Issue Date : 25.11.2024

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

ARSHIYA HOUSAR Dy. T.M. - Chemical

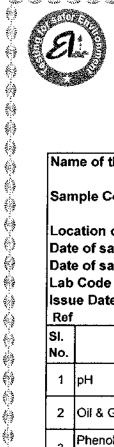
Govt. Analyst / Authorised Signatory

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#### TEST REPORT

Table No. 2a

Report No: ED013124113

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Location of Sampling

: Raw Effluent water

Date of sample collection

: 11.11.2024

Date of sample receipt

: 15.11.2024 : ED/24/11/3-0131

Lab Code

Issue Date Ref

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: 23.11.2024

Environmental (P) Rules, 1986 SCHEDULE L- 01 01 2016

Ket		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016				
SI. No.	Parameters	Result	Method of Testing			
1	рН	7.68	IS 3025 (P-11) 2022			
2	Oil & Grease (mg/l), Max	<1.0	IS 3025 (P-39) 2021			
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022			
4	Dissolved Solids (inorganic) mg/l, Max.	1860	IS 3025 (P-16) 2023			
5	Suspended Solids (mg/l), Max	185	IS 3025 (P-17) 2022			
6	Lead as Pb (mg/l), Max	<0.01	APHA 23rd Edition 3030K			
7	Copper as Cu (mg/l), Max	<0.05	APHA 23rd Edition 3030K			
8	Zinc as Zn (mg/l), Max	<0.05	APHA 23rd Edition 3030K			
9	Nickel as Ni (mg/l), Max	<0.05	APHA 23rd Edition 3030K			
10	Total Chromium as Cr(mg/l), Max	<0.01	APHA 23rd Edition 3030K			
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)			
12	COD (mg/l), Max	846	IS 3025 (P-58) 2023			
13	BOD [3 days at 27°C] (mg/l), Max	78.0	IS 3025 (P-44) 2023			
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019			

"" END OF REPORT""

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#### TEST REPORT

Table No. 2b

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Report No: ED013224113

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Location of Sampling

: Effluent Treated Plant water

Date of sample collection

: 11.11.2024

Date of sample receipt

: 15.11.2024

Lab Code

: ED/24/11/3-0132

Issue Date

23.11.2024

SI. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	рН	7.36	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	1790	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	25.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 23rd Edition 3030K
7	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
8	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 23rd Edition 3030K
9	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 23rd Edition 3030K
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 23rd Edition 3030K
11	Hexavalent Chromium as Cr*6 (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	110	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	18.5	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT"

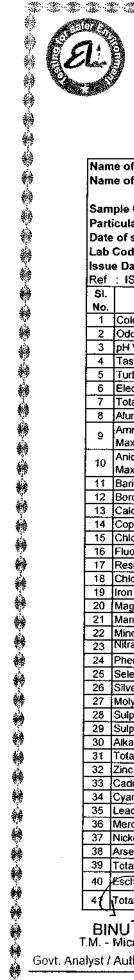
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#### **TEST REPORT**

Table No. 4a

Report No : ED013424113

Name of the Client Name of the Project

M/s. Berger Paints India Limited, Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Sample Collected by Particulars of sample collected

: DW1. Drinking water Base Block first floor

Date of sample collection Lab Code

11.11.2024 : ED/24/11/3-0134

Issue Date

: 23.11.2024 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.78	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	35.0		-	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	24.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<0.1	0.2	1.0	IS : 3025 (P-68) 2022
	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2) 2019
	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
	Calcium (as Ca),mg/l, Max	<2.0	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
	Chloride as Cl (mg/l),mg/l, Max	11.25	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	JS:3025 (P-60) 2008 RA 2019
-	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
	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
	Magnesium (as Mg)mg/l, Max	<1.0	30	100	IS:3025 (P-46) 2023
	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
	Mineral Oit,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
	Nitrates (as NO₃),mg/l, Max	<0.1	45	45	iS:3025 (P-34) Sec 1 2023
	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
	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
	Sulphates (as SO ₄ ),mg/l, Max	2.86	200	400	IS:3025 (P-24) Sec 1 2022
_	Sulphide (as H ₂ S), mg/l, Max	< 0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃ ) mg/l, Max	10.35	200	600	IS:3025 (P-23) 2023
_	Total Hardness (as CaCO ₃ ),mg/l,Max	8.0	200	600	IS:3025 (P-21):2009 RA 2019
	Zinc (as Zn),mg/l, Max	0.01	5	15	IS:3025 (P-2) 2019
	Cadmium (as Cd),mg/l, Max	< 0.001	0.003	0.003	IS:3025 (P-2) 2019
	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
$\overline{}$	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
	Arsenic (as As),mg/ł, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
-4	Escherichia coli/100ml	Not Detected	Shall not be		IS:15185:2016 RA 2021
4(	Total Coliforn /100ml) Not Detected any 100ml Sample		l Sample	IS:15185:2016 RA 2021	

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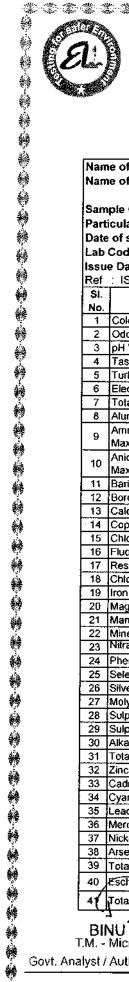
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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#### TEST REPORT

Table No. 4b Report No: ED013524113

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project Sample Collected by : Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected Date of sample collection

: DW2. Drinking water canteen parking area

Lab Code

11.11.2024 : ED/24/11/3-0135

Issue Date

: 23.11.2024 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
_ 2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.21	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	181	Ĭ <b>-</b>		IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	110	500	2000	IS:3025 (P-16) 2023
- 8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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/i, Max	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	4	75	200	IS:3025 (P-40)1991 RA 2019
· 14	Copper (as Cu),mg/f, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as CI (mg/i),mg/l, Max	16.14	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.2	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chtoramines as C12, Max	<0.1	4	4	IS:3025(P-26) 2021
19	Iron (as Fe),mg/i, Max	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
	Magnesium (as Mg)mg/l, Max	2.43	30	100	IS:3025 (P-46) 2023
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
	Nitrates (as NO ₃ ),mg/l, Max	<0.1	45	45	IS:3025 (P-34) Sec 1 2023
	Phenolics (as C ₆ H ₆ OH),mg/t, 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
$\overline{}$	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2) 2019
	Molybdenum (as Mo), mg/l, Max	< 0.001	0.07	0.07	IS:3025 (P-2) 2019
	Sulphates (as SO₄),mg/l, Max	4.53	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃ ) mg/l, Max	31.05	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃ ),mg/l,Max	20.0	200	600	IS:3025 (P-21):2009 RA 2019
	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
	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		IS:15185:2016 RA 2021
4(	Total Coliforim /100ml)	Not Detected	any 100m	ii Sample	IS:15185;2016 RA 2021

BINU MÁNI T.M. - Microbiology

Govt. Analyst / Authorised Signatory

"END OF REPORT"

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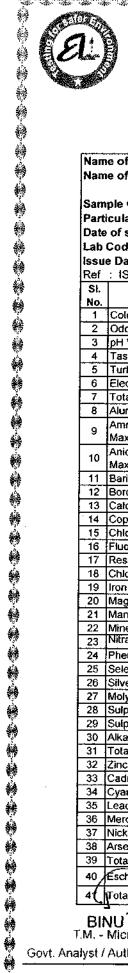
T.M. - Chemical

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#### TEST REPORT

Table No. 4c Report No : ED013624113

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project

: Industrial Park, Thumakunta village,

Sample Collected by

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected

: DW3. Drinking water Raw Material Area

Date of sample collection

11.11.2024

Lab Code

: ED/24/11/3-0136

issue Date

: 23.11.2024

Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI.	Desirable Permissible		Mathed - ( T4:		
No.	Parameters		Limts	Limts	Method of Testing
<u>   1                                 </u>	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.04	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductivity (µmhos/cm)	36.00	-		IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/t, Max	20.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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	Catcium (as Ca),mg/l, Max	4.00	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as CI (mg/l),mg/l, Max	6.35	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.10	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as 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) 2023
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2) 2019
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃ ),mg/l, Max	0.84	45	45	IS:3025 (P-34) Sec 1 2023
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
$\overline{}$	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2) 2019
$\overline{}$	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
	Sulphates (as SO ₄ ),mg/l, Max	<1.0	200	400	IS:3025 (P-24) Sec 1 2022
	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
	Alkalinity (as CaCO ₃ ) mg/l, Max	10.4	200	600	IS:3025 (P-23) 2023
	Total Hardness (as CaCO ₃ ),mg/l,Max	30.0	200	600	IS:3025 (P-21):2009 RA 2019
	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200,7 Rev 4.4
$\overline{}$	Nickel (as Ni),mg/i, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
	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
4(	Total Coliforn /100ml)	Not Detected	any 100m	il Sample	IS:15185:2016 RA,2021
	<u> </u>	"END OF S	PEDADT"		A Carenit

BINU MANI T.M. - Microbiology "END OF REPORT"

M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory

Govt. Analyst / Authorised Signatory

Format No.: 10



### **ENVIRONMENTAL LABORATORY**

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#### **TEST REPORT**

Table No. 5

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#### **NOISE LEVEL DATA**

Report No: ELMES042411

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

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

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

Instrument Used : HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2024

Date of sample collection: 11.11.2024

Issue Date: 25.11.2024

Code	B4 74 7 4 - 47		Day Nigt		Nigt		
No.	Monitoring stations	L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	55.2	63.0	69.1	41.0	51.2	58.0
N2	Near Gate No 1 outside	39.7	59.0	62.0	35.4	47.5	55.3
N3	RMS Area	41.3	61.8	67.2	47.2	54.6	60.0
N4	DG Set Area at 1mtr distance	43.8	53.2	59.9	37.0	46.9	52.0
N5	Near Gate No 2 outside	57.2	62.5	65.2	38.0	50.9	56.0

#### Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

#### Leg. 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

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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## **ENVIRONMENTAL LABORATORY**

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#### TEST REPORT

Table No. 6a

#### **Stack Monitoring Report**

Report No: N028724113

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 1

Instrument Used

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection

: 11.11.2024

Date of Sample Receipt

: 12.11.2024

Lab Code Issue date : N/24/11/3-0287 : 25.11.2024

**GENRAL DETAILS** 

		GENNAL DI	EIAILO		
1	Fuel Used			Diesel	
2	Capacity (KVA)			250	
3	Stack height (M)			5	
4	Stack diameter (M)			0.13	
5	AmbientTemperature (	°C)		28	
6	Stack Temperature (°C	elocity (m/s)			
7	Velocity (m/s)	anitity of flue Gas Discharged into atmosphere			
8	Quanitity of flue Gas D (Nm ³ /hr)	ischarged into at	mosphere	237	
9	Sample Condition Who	Satisfactory			
10	Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1	
11	Serial No. of the Equip	ment		338-DTH-2014	
12	Calibration done on ar	nd due on		18.11.2024	
13	Test Method			IS: 11255	
	P	Pollutional Parame	eters (Result)		
SI.No	Parameters	Unit	Results	Limits	
1	Nox +HC		0.10	≤ 4.0	
2	со	g/Kw-Hr	0.22	≤ 3.5	
3	РМ		0.02	≤ 0.2	

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Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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### **ENVIRONMENTAL LABORATORY**

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#### TEST REPORT

Table No. 6b

#### Stack Monitoring Report

Report No: N028824113

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

DG eat 2

Instrument Used

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection

: 11.11.2024

Date of Sample Receipt

: 12.11.2024

Lab Code

: N/24/11/3-0288

Issue date

: 25.11.2024

GENKAL	DE	IAIL	≎
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Fuel Used	el Used				
Capacity (KVA)			1250		
Stack height (M)			5		
Stack diameter (M)					
AmbientTemperature (	nbientTemperature (°C)				
Stack Temperature (°C	280				
Velocity (m/s)	Velocity (m/s)				
			5521		
Sample Condition When Received			Satisfactory		
Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1		
Serial No. of the Equip	338-DTH-2014				
Calibration done on and due on			18.11.2024		
Test Method			IS: 11255		
P	ollutional Parame	ters (Result)			
Parameters	Unit	Results	DG Limits 0.8MW to 75MW		
$NO_x$ as ( $NO_2$ ) (at 15% $O_2$ ), Dry basis	₽₽MV	30.4	710		
NHC (as C) (at 15% O2),	mg/Nm³	53.3	100		
PM (at 15% O2),	mg/Nm³	52.0	75		
CO (at 15% O2),	mg/Nm³	38.3	150 N		
	Capacity (KVA) Stack height (M) Stack diameter (M) AmbientTemperature (°C) Velocity (m/s) Quanitity of flue Gas Di (Nm³/hr) Sample Condition Whe Model of the Equipmen Serial No. of the Equipmen Calibration done on and Test Method  Parameters  NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis  NHC (as C) (at 15% O ₂ ), PM (at 15% O ₂ ),	Capacity (KVA)  Stack height (M)  Stack diameter (M)  AmbientTemperature (°C)  Stack Temperature (°C)  Velocity (m/s)  Quanitity of flue Gas Discharged into att (Nm³/hr)  Sample Condition When Received  Model of the Equipment used for Monito  Serial No. of the Equipment  Calibration done on and due on  Test Method  Pollutional Parame  Parameters  Unit  NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis  NHC (as C) (at 15% O ₂ ),  PM (at 15% O ₂ ),  mg/Nm³  mg/Nm³	Capacity (KVA)  Stack height (M)  Stack diameter (M)  AmbientTemperature (°C)  Stack Temperature (°C)  Velocity (m/s)  Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)  Sample Condition When Received  Model of the Equipment used for Monitoring  Serial No. of the Equipment  Calibration done on and due on  Test Method  Pollutional Parameters (Result)  Parameters  Unit  Results  NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis  NHC (as C) (at 15% O ₂ ), mg/Nm³  53.3  PM (at 15% O ₂ ), mg/Nm³  52.0		

ARSHIYA KOUSAR

Dy. T.M. - Chemical

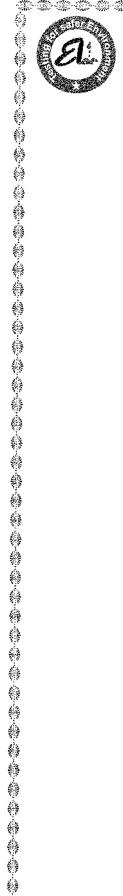
Govt. Analyst / Authorised Signatory

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#### TEST REPORT

Table No. 6c

#### Stack Monitoring Report

Report No : N028924113

Name of the Industry : Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID : DG set 3

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection : 11.11.2024

Date of Sample Receipt : 12.11.2024

Lab Code

: N/24/11/3-0289

Issue date

: 25.11.2024

**GENRAL DETAILS** 

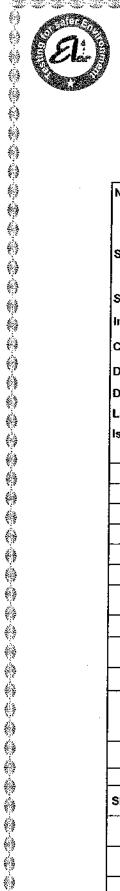
1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	AmbientTemperature (°C)	28
6	Stack Temperature (°C)	340
7	Velocity (m/s)	17.09
8	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	6271
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338-DTH-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255
	Pollutional Parameters (Resul	t)
		DC Limite

Poliutional Parameters (Result)						
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW		
1	$NO_x$ as $(NO_2)$ (at 15% $O_2$ ), Dry basis	PPMV	37.1	710		
2	NHC (as C) (at 15% O2),	mg/Nm³	52.2	100		
3	PM (at 15% O2),	mg/Nm³	54.0	75		
4	CO (at 15% O2),	mg/Nm³	32.4	150		

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#### **TEST REPORT**

Table No. 6d

#### Stack Monitoring Report

Report No: N029424113

Name of the Industry

: Berger Paints India Limited,,

industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: Stack of Dust Collectors

Instrument Used

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection

: 12.11.2024

Date of Sample Receipt

Post Manual

: 12.11.2024

Lab Code

: N/24/11/3-0294

Issue date

: 25.11.2024

O-11044		_
GENRAL	IJEJAN	- >

1	Fuel Used	-	
2	Barometric pressure ( mm of Hg)	705	
3	Stack diameter (M)	0.74	
4	AmbientTemperature (°C)	28	
5	Stack Temperature (°C)		58
6	Velocity (m/sec)		13.66
7	Quanitity of flue Gas Discharged into atr (Nm³/hr)	19257	
8	Sample Condition When Received	Satisfactory	
9	Model of the Equipment used for Monito	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 Paramet	ters (Result)	
SI.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂ )	mg/Nm3	42.3
2	NO _x as (NO ₂ )	mg/Nm3	14.8
3	Particulate Matter (PM)	mg/Nm3	20.0

ARSHÎYÂ KOUSAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

# ENVIRONMENTAL MONITORING REPORT October, 2024

PROJECT: BERGER PAINTS INDIA LIMITED,

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

### **ENVIRONMENTAL LABORATORY**

(Unit of Mineral Engineering Services)

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



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#### TEST REPORT

Table No. 1a

#### **AMBIENT AIR QUALITY**

Report No: N003224104

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 25.0°C

Relative Humidity

: Min 40% Max 74%

Duration

: 24 Hrs.

Issue Date

: 25.10.2024

	Concentration						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m³	Nitrogen Dioxide (NO ₂ ), μg/m ³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH ₃ ), μg/m ³	Benzene (C ₆ H ₆ ), μg/m³
·14.10.2024	N/24/10/4-0031	13	18	58	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

		Concentration					
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Monovide*	Ozone* (O ₃ ), µg/m³
14.10.2024	N/24/10/4-0031	0.28	<0.1	<0.5	<0.5	0.48	28
Limits for Industrial ,	. <del> </del>	1.0	20	6	1	4	180
Residential, Rural and o	ther Areas	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
Residential, Rural and o	<del></del>		Annual	Annual	Annual	1 Hr	_

M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory



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#### TEST REPORT

Table No. 1b

### AMBIENT AIR QUALITY

Report No: N003224104

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A2 - Near ETP Area

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

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 25.0°C

Relative Humidity

: Min 40% Max 74%

Duration

: 24 Hrs.

Issue Date

: 25.10.2024

<del></del>		Concentration					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m³	Nitrogen Dīoxide (NO ₂ ), μg/m³	PM _{10,} (µg/m²)	PM _{2.5,} (µg/m³)	Ammonia (NH ₃ ), µg/m ³	Benzene (C ₆ H ₆ ), µg/m³
14.10.2024	N/24/10/4-0032	11	15	51	27	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80	80	100	60	400	5
		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃ ), µg/m³
14.10,2024	N/24/10/4-0032	0.22	<0.1	<0.5	<0.5	0.34	32
Limits for Industrial , Residential, Rural and other Areas		1.0	20	6	1	4	180
		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note: * Parameters monitored for period of 1 hr

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Govt. Analyst / Authorised Signatory

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



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#### TEST REPORT

Table No. 1c

### **AMBIENT AIR QUALITY**

Report No: N003324104

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

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

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 25.0°C

Relative Humidity

: Min 40% Max 74%

Duration

: 24 Hrs.

Issue Date

: 25.10.2024

				Concent	ration		, ,
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m³	Nitrogen Dioxide (NO ₂ ), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (µg/m³)	Ammonia (NH₃), μg/m³	Benzene (C ₆ H ₆ ), μg/m³
14.10.2024	N/24/10/4-0033	10	13	54	28	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

				Concent	ration		1
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃ ), µg/m ³
14.10.2024	N/24/10/4-0033	0.26	<0.1	<0.5	<0.5	0.41	25
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
Note : * Parameters r	nonitored for peri	iod of 1 hr		•		<b>*</b> ••••••	<u>'</u>

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#### TEST REPORT

Table No. 1d

#### AMBIENT AIR QUALITY

Report No: N003424104

Name of the Project

: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal,

Anantapuram Dist, Andhra Pradesh.

Location

: A4 - Near Green Belt Area

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Instrument Used

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

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

Calibration due date of instrument: 18.11.2024

Barometric pressure : 705 mm of Hg

Temperature

: Min 21.0°C Max 25.0°C

Relative Humidity

: Min 40% Max 74%

Duration

: 24 Hrs.

Issue Date

: 25.10.2024

			- h-t	Concent	ration		<u></u>
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂ ), µg/m³	Nitrogen Dioxide (NO ₂ ), μg/m³	PM _{10,} (µg/m³)	PM _{2.5,} (μg/m ³ )	Ammonia (NH ₃ ), µg/m³	Benzene (С _е Н _е ), µg/m³
14.10.2024	N/24/10/4-0034	7	9	45	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

		Concentration					
Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₃ ), µg/m³
14.10.2024	N/24/10/4-0034	0.12	<0.1	<0.5	<0.5	0.26	22
Limits for Industrial , Residential, Rural and other Areas		1.0	20	6	1	4	180
		24 Hrs	Annual	Annual	Annual	1 Hr	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

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#### **TEST REPORT**

Table No. 1h

### **AMBIENT AIR QUALITY**

VOC TEST REPORT

Report No :N0205-020824103

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

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

Calibration due date of instrument: 10.12.2024

Date of Monitoring: 14.10.2024

Issue Date : 25.10.2024

Location		WB manufacturing building	Raw Material 1 st Tank yard floor,		QC Lab
Lab code		N/24/10/3-0205	N/24/10/3-0206	N/24/10/3-0207	N/24/10/3-0208
SI No Parameters		Result µg/m³	Result µg/m³	Result μg/m³	Result μg/m³
1 VOC		BDL	BDL	1.03	BDL

Note: BDL < 1.0 µg/m³

M. (accinitar)
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory



### (UNIT OF MINERAL ENGINEERING SERVICES LLP)

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#### **TEST REPORT**

Table No. 1i

#### **AMBIENT AIR QUALITY**

HYDROCARBONS TEST REPORT

Report No :N0032-03424104

Project: Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory

(Unit of Mineral Engineering Services)

Instrument Used: Envirotech APM 850/33 DTA 2018

Calibration due date of instrument: 10.12.2024

Date of Monitoring: 14.10.2024

Issue Date : 25.10.2024

**餋窃锋褖鴮辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏辏** 

	Location	DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing	
SI <b>N</b> o	Parameters	Result (ppm)	Result (ppm)	esult (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. (cum Lag) -M.SACHIN RAJU ). T.M. - Chemical

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

Note : This report is subject to the terms and conditions mentioned overleaf.



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#### **TEST REPORT**

Table No. 2a

Report No : N019624103

Name of the Project

: Berger Paints India Limited, Industrial Park

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

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Location of Sampling

: Raw Effluent water

Date of sample collection

Date of sample receipt

14.10.2024

Date of sample receipt Lab Code : 16.10.2024 : N/24/10/3-0196

Issue Date

Ref

: 25.10.2024

: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

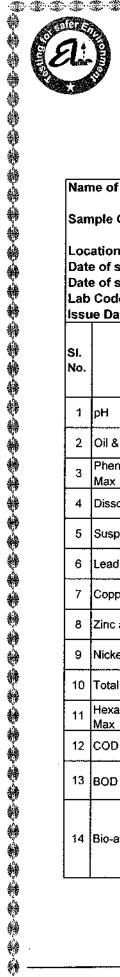
SI. No.	Parameters	Result	Method of Testing
1	рН	8.52	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	3550	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	220	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	IS 3025 (P-2) 2019
7	Copper as Cu (mg/l), Max	<0.05	IS 3025 (P-2) 2019
8	Zinc as Zn (mg/l), Max	<0.05	IS 3025 (P-2) 2019
9	Nickel as Ni (mg/l), Max	<0.05	IS 3025 (P-2) 2019
10	Total Chromium as Cr(mg/l), Max	<0.01	IS 3025 (P-2) 2019
11	Hexavalent Chromium as Cr*6 (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	. 700	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	400.0	IS 3025 (P-44) 2023
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT""

M. Cum Lay M. SACHIN RAJU T.M. - Chemical

Govt, Analyst / Authorised Signatory

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#### **TEST REPORT**

Table No. 2b

Report No: N019724103

Name of the Project

: Berger Paints India Limited, Industrial Park

Sample Collected by

Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory

(Unit of Mineral Engineering Services)

Location of Sampling

: Effluent Treated Plant water

Date of sample collection Date of sample receipt

14.10.2024 16.10.2024

Lab Code Issue Date

: N/24/10/3-0197 25.10.2024

SI. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	рН	8.24	6.0 to 8.5	IS 3025 (P-11) 2022
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39) 2021
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
4	Dissolved Solids (inorganic) mg/l, Max.	580	2100	IS 3025 (P-16) 2023
5	Suspended Solids (mg/l), Max	7.0	100	IS 3025 (P-17) 2022
6	Lead as Pb (mg/l), Max	<0.01	0.1	IS 3025 (P-2) 2019
7	Copper as Cu (mg/l), Max	<0.05	3.0	IS 3025 (P-2) 2019
8	Zinc as Zn (mg/l), Max	<0.05	5.0	IS 3025 (P-2) 2019
9	Nickel as Ni (mg/l), Max	<0.05	3.0	IS 3025 (P-2) 2019
10	Total Chromium as Cr(mg/l), Max	<0.01	2.0	IS 3025 (P-2) 2019
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	96	250	IS 3025 (P-58) 2023
13	BOD [3 days at 27°C] (mg/l), Max	8.7	30	IS 3025 (P-44) 2023
14	Bio-assay test	95% survival of fish after 96 hrs in 100%	90% survival of fish after 96 hrs in 100%	IS 6582:1971 RA2019

END OF REPORT""

effluent

effluent

Milau M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory

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#### **TEST REPORT**

Table No. 4a

Report No : N019924103

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project

: Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services) : DW1. Drinking water Base Block first floor

Particulars of sample collected Date of sample collection

: 14.10.2024

Lab Code

: N/24/10/3-0199

Issue Date

: 25.10.2024

SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.00	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<0.1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductvity (µmhos/cm)	32.0	-		IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	18.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	< 0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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 CI (mg/l),mg/l, Max	9.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<1.0	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Chloramines as 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	<1.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃ ) mg/l, Max	6.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃ ),mg/l,Max	4.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2) 2019
34	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2) 2019
36	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2) 2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-2) 2019
10	Escherishia coli/100ml	Not Detected	Shall not be	detectable in	IS:15185:2016 RA 2021
11	Total Coliform /100ml)	Coliform /100ml) Not Detected any 100ml Sample		IS:15185:2016 RA 2021	

BINU MANI T.M. - Microbiology "END OF REPORT"

M.SACHIN RAJU T.M. - Chemical

Govt. Analyst / Authorised Signatory

Govt. Analyst / Authorised Signatory

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## RONMENTAL LABORATO

#### (UNIT OF MINERAL ENGINEERING SERVICES LLP)

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#### TEST REPORT

Table No. 4b

Report No: N020024103

Method of Testing

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project

: Industrial Park, Thumakunta village,

Desirable

Sample Collected by

**Parameters** 

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Permissible

Limts

Particulars of sample collected

: DW2. Drinking water canteen parking area

Date of sample collection Lab Code

14.10.2024 : N/24/10/3-0200

Results

Issue Date

Ref SI

No.

1

: 25.10.2024 : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Colour (Hazen Units) 15 IS:3025 (P-4) 2021 5 Agreeable 2 Odour Agreeable Agreeable IS:3025 (P-5) 2018 pH Value 3 6.5 to 8.5 6.5 - 8.5 IS:3025 (P-11) 2022 7.02 Taste 4 IS:3025 (P-8) 2023 Agreeable Agreeable Agreeable Turbidity,NTU, Max 5 5 IS:3025 (P-10) 2023 1.2 1 6 Electrical Conductvity (µmhos/cm) 90 IS 3025 (P-14) 2013 RA 2019 Total Dissolved Solids,mg/l, Max 500 2000 50 IS:3025 (P-16) 2023 Aluminium (as Al), Max < 0.005 IS:3025 (P-2) 2019 8 0.03 0.2 Ammonia (as total Ammonia -N),mg/l, 9 < 0.1 0.5 0.5 IS:3025 (P-34) 2023 Max Anionic Detergents (as MBAS),mg/, 10 < 0.1 0.2 1.0 IS: 3025 (P-68) 2022 Maxi <0.005 11 Barium (as Ba), mg/l, Max 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 IS:3025 (P-40)1991 RA 2019 200 <1.0 75 Copper (as Cu),mg/l, Max < 0.005 0.05 IS:3025 (P-2)2019 1.5 15 Chloride as Cl (mg/l),mg/l, Max 14 250 1000 IS:3025 (P-32) 1988 RA 2019 16 Fluoride (as F),mg/l, Max 1.5 < 0.1 IS:3025 (P-60) 2008 RA 2019 1 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 IS:3025(P-26) 2021 4 Iron (as Fe),mg/I, Max 19 < 0.005 1.0 1.0 IS:3025 (Part-2) 2019 Magnesium (as Mg)mg/l, Max 30 IS:3025 (P-46) 2023 <1.0 100 21 Manganese (as Mn),mg/l, Max < 0.001 0.1 0.3 IS:3025 (P-2) 2019 Mineral Oil,mg/l, Max < 0.5 1.0 1.0 IS 3025 (P-39) 2021 23 Nitrates (as NO₃),mg/l, Max 1.8 45 45 IS:3025 (P-34) Sec 1 2023 24 Phenolics (as C₆H₅OH),mg/l, Max < 0.001 0.001 0.002 IS:3025 (P-43)Sec 1 2022 Selenium (as Se),mg/l < 0.0005 0.01 0.01 IS:3025(P-2) 2019 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 SO₄),mg/l, Max IS:3025 (P-24) Sec 1 2022 10 200 400 29 Sulphide (as H₂S), mg/l, Max < 0.01 0.05 0.05 IS:3025 (P-29) 2022 Alkalinity (as CaCO₃) mg/l, Max 26 200 30 600 IS:3025 (P-23) 2023 Total Hardness (as CaCO₃),mg/l,Max IS:3025 (P-21):2009 RA 2019 4.0 200 600 Zinc (as Zn),mg/l, Max < 0.005 5 15 IS:3025 (P-2) 2019

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33

"END OF REPORT"

0.003

0.05

0.01

0.001

0.02

0.01

0.05

0.003

0.05

0.01

0.001

0.02

0.01

0.05

Shall not be detectable in any 100ml Sample

IS:3025 (P-2) 2019

IS:15185:2016 RA 2021

IS:15185:2016 RA 2021

USPEA 200.7 Rev 4.4

IS:3025 (P-27)Sec 1 2021

< 0.001

< 0.01

< 0.005

< 0.0005

< 0.001

< 0.002

< 0.001

Not Detected

Not Detected

M.SACHIN RAJU 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

Cadmium (as Cd),mg/l, Max

Mercury (as Hg),mg/l, Max

Nickel (as Ni),mg/l, Max

Escherichia coli/100ml

Total Goliform /100ml)

Arsenic (as As),mg/l, Max

Total Chromium (as Cr),mg/l, Max

34 Cyanide (as CN),mg/l, Max

35 Lead (as Pb),mg/l, Max



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#### **TEST REPORT**

Table No. 4c

Report No: N020124103

Name of the Client

: M/s. Berger Paints India Limited,

Name of the Project

: Industrial Park, Thumakunta village,

Sample Collected by

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of sample collected

Date of sample collection

: DW3. Drinking water Raw Material Area 14.10.2024

Lab Code Issue Date : N/24/10/3-0201

: 25.10.2024 Ref: IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

SI. No.	Parameters	Results	Desirable Limts	Permissible Limts	Method of Testing
1	Colour (Hazen Units)	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.77	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU, Max	<1	1	5	IS:3025 (P-10) 2023
6	Electrical Conductvity (µmhos/cm)	40.00	-	-	IS 3025 (P-14) 2013 RA 2019
7	Total Dissolved Solids,mg/l, Max	22.0	500	2000	IS:3025 (P-16) 2023
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-2) 2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34) 2023
10	Anionic Detergents (as MBAS),mg/, Maxl	<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
	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 CI (mg/l),mg/l, Max	8.00	250	1000	IS:3025 (P-32) 1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	1	1.5	IS:3025 (P-60) 2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26) 2021
	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
	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 H₂S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29) 2022
30	Alkalinity (as CaCO ₃ ) mg/l, Max	10.0	200	600	IS:3025 (P-23) 2023
31	Total Hardness (as CaCO ₃ ),mg/l,Max	4.0	200	600	IS:3025 (P-21):2009 RA 2019
-	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
-	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
10	Escherichia coli/100ml	Not Detected	Shall not be	detectable in	IS:15185:2016 RA 2021

**BINU MANI** T.M. - Microbiology "END OF REPORT

Not Detected

any 100ml Sample

tuu M.SACHIN RAJU T.M. - Chemical

IS:15185:2016 RA 2021

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

Coliform /100ml)



#### (UNIT OF MINERAL ENGINEERING SERVICES LLP)

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#### **TEST REPORT**

Table No. 5

#### **NOISE LEVEL DATA**

Report No: ELMES032410

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

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

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

Instrument Used: HTC SL-1352 Data Logger

Calibration due date of instrument : 11.12.2024

Date of sample collection: 14.10.2024

Issue Date : 25.10.2024

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

### Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Leq. Limit dB(A)

Night
70
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 J. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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office office office office



## **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: N020224103

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 1

Instrument Used

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection

: 14.10.2024

Date of Sample Receipt

: 16.10.2024

Lab Code

: N/24/10/3-0202

Issue date

: 25.10.2024

**GENRAL DETAILS** 

		GENRAL DE	HAILS	
1	Fuel Used			Diesel
2	Capacity (KVA)			250
3	Stack height (M)			5
4	Stack diameter (M)			0.13
5	AmbientTemperature (°C)			21
6	Stack Temperature (°C)			151
7	Velocity (m/s)			17.36
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)			387
9	Sample Condition When Received			Satisfactory
10	Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment			338-DTH-2014
12	Calibration done on and due on			18.11.2024
13	Test Method			IS: 11255
		Pollutional Parame	eters (Result)	
SI.No	Parameters	Unit	Results	Limits
1	Nox +HC		0.15	≤ 4.0
2	со	g/Kw-Hr	0.36	≤ 3.5
3	РМ		0.03	≤ 0.2

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#### **TEST REPORT**

Table No. 6b

#### Stack Monitoring Report

Report No: N020324103

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 2

Instrument Used

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

Calibration due date of instrument : 18.11.2024

: 14.10.2024

Date of sample Collection
Date of Sample Receipt

: 16.10.2024

Lab Code

: N/24/10/3-0203

Issue date

: 25.10.2024

**GENRAL DETAILS** 

1	Fuel Used			Diesel
2	Capacity (KVA)			1250
3	Stack height (M)			5
4	Stack diameter (M)			0.38
5	AmbientTemperature (°C)			21
6	Stack Temperature (°C)			338
7	Velocity (m/s)			17.04
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)			6317
9	Sample Condition When Received			Satisfactory
10	Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment			338-DTH-2014
12	Calibration done on and due on			18.11.2024
13	Test Method			IS: 11255
	Po	Ilutional Parame	eters (Result)	h
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis	PPMV	29.9	710
2	NHC (as C) (at 15% O2),	mg/Nm³	52.3	100
3	PM (at 15% O2),	mg/Nm ³	49.0	75
4	CO (at 15% O2),	mg/Nm³	35.7	150 W. C.

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### (UNIT OF MINERAL ENGINEERING SERVICES LLP)

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#### **TEST REPORT**

Table No. 7c

#### Stack Monitoring Report

Report No: N020424103

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: DG set 3

Instrument Used

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection

: 14.10.2024

Date of Sample Receipt

: 16.10.2024

Lab Code

: N/24/10/3-0204

Issue date

: 25.10.2024

**GENRAL DETAILS** 

Water and the same			Market and the second s		
1	Fuel Used			Diesel	
2	Capacity (KVA)			1250	
3	Stack height (M)			5	
4	Stack diameter (M)	<del>*************************************</del>		0.38	
5	AmbientTemperature (°C	C)		21	
6	Stack Temperature (°C)			360	
7	Velocity (m/s)			18.25	
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)			6767	
9	Sample Condition When Received			Satisfactory	
10	Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1	
11	Serial No. of the Equipment			338-DTH-2014	
12	Calibration done on and due on			18.11.2024	
13	Test Method			IS: 11255	
	Po	llutional Parame	eters (Result)		
SI.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW	
1	NO _x as (NO ₂ ) (at 15% O ₂ ), Dry basis	PPMV	48.2	710	
2	NHC (as C) (at 15% O2),	mg/Nm³	51.0	100	
3	PM (at 15% O2),	mg/Nm ³	48.0	75	
4	CO (at 15% O2),	mg/Nm³	38.9	150 W. Ja.	

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#### **TEST REPORT**

Table No. 6d

#### Stack Monitoring Report

Report No.: N020924103

Name of the Industry

: Berger Paints India Limited,,

Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.

Sample Collected by

: Environmental Laboratory

(Unit of Mineral Engineering Services)

Stack ID

: Stack of Dust Collectors

Instrument Used

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

Calibration due date of instrument : 18.11.2024

Date of sample Collection

: 15.10.2024

Date of Sample Receipt

: 16.10.2024

Lab Code

: N/24/10/3-0209

Issue date

: 25.10.2024

	GEN	RAL DETAILS		
1	Fuel Used			
2	Barometric pressure ( mm of Hg	705		
3	Stack diameter (M)		0.74	
4	AmbientTemperature (°C)		25	
5	Stack Temperature (°C)	S 199 6	51	
6	Velocity (m/sec)	13.50		
7	Quanitity of flue Gas Discharged (Nm³/hr)	19029		
8	Sample Condition When Receive	Satisfactory		
9	Model of the Equipment used for	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)		
SI.No	Parameters	Unit	Results	
1	Sulphur Dioxide (SO ₂ )	mg/Nm3	40.2	
2	NO _x as (NO ₂ )	mg/Nm3	13.5	
3	Particulate Matter (PM)	mg/Nm3	1619. (911	

Govt. Analyst / Authorised Signatory

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