



27th April 2024.

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

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

Dear Sir,

Please find our Half-Yearly report (Oct'23 to Mar'24) on compliance to EC conditions as required.

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

Kindly acknowledge the receipt.

With Regards,
For Berger Paints India Ltd

Venkata Apparao. D
GM-Manufacturing

Copy to:

1. The Joint Chief Environmental Engineer UH4, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 008
2. The EE, AP Pollution Control Board, Door. No: 6-3-145, First Floor, Revenue ward 6, Ramnagar, Anantapur – 515004, Andhra Pradesh

BERGER PAINTS INDIA LIMITED

Plot No. 262, Industrial Growth Centre Thumukunta Village, Hindupur-515211 Dist. Anantapur (A.P.)
Regd. Office : Berger House,-129, Part Street, Kolkata - 700 017, Phone :2229 9724-28,2229 6005-06, Fax:+91-33-2249 9009/9729,www.bergerpaints.com
CIN - L51434WB1923PLC004793, E-mail: consumerfeedback@bergerindia.com



सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
Compliance Report
2024
01 Jun(01 Oct - 31 Mar)



Proposal Details

Proposal Name		BERGER PAINTS INDIA LIMITED PLOT NO. 262, APIIC GROWTH CENTER THUMUKUNTA VILLAGE, HINDUPUR MANDAL SRI SATYA SAI DISTRICT, ANDHRA PRADESH - 515211	
Name of Entity / Corporate Office		BERGER PAINTS INDIA LIMITED	
Village(s)		TUMAKUNTA	
District		SRI SATHYA SAI	
Proposal No.	IA/AP/IND/21749/1910	Category	Industrial Projects - 3
Plot / Survey / Khasra No.	262	Sub-District	Hindupur
State	ANDHRA PRADESH	Entity's PAN	AABCB0976E
MoEF File No.	J-11011/515/2010-IA II (I)	Entity name as per PAN	BERGER PAINTS INDIA LIMITED

Compliance Reporting Details

Reporting Year	2024
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	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Water based distemper paints	Others:MTPA	N/A	48000	0	
2	Water based polymer emulsion	Others:MTPA	N/A	100000	0	
3	Water based emulsion paints	Others:kilo litres per annum	N/A	272000	65262	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	No lead and chromium-based paint shall be manufactured.
PPs Submission: Being Complied Noted		Date: 13/04/2024
2	MISCELLANEOUS	Only water Paint shall be manufactured. No solvent paint shall be manufactured without prior permission obtained from ministry.
PPs Submission: Being Complied Noted		Date: 13/04/2024
3	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
PPs Submission: Complied DG sets are under acoustic enclosure. Separate stacks with adequate height are available.		Date: 13/04/2024
4	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied Medical check up being done and records are maintained		Date: 13/04/2024
5	MISCELLANEOUS	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of a temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
PPs Submission: Complied It is not applicable at this point of time.		Date: 13/04/2024

6	AIR QUALITY 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.
PPs Submission: Being Complied Environmental monitoring being done The applicable parameters are displayed at main gate of the company for display to public.		Date: 27/04/2024
7	AIR QUALITY MONITORING AND PRESERVATION	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals /materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emission shall confirm to the limits stipulated by the APPCB.
PPs Submission: Being Complied Adequate dust extraction system and closed loop charging system are implemented to control the fugitive emissions		Date: 27/04/2024
8	Human Health Environment	VOCs detectors shall be installed in the work zone. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.
PPs Submission: Being Complied It is not applicable for our case since we are not using any solvent. However, we have procured portable VOC digital meter and are using it to check the VOC as per the requirement		Date: 13/04/2024
9	MISCELLANEOUS	For further control of fugitive emissions, following steps shall be followed: Closed handling system shall be provided for chemicals. Reflux condenser shall be provided over reactor. System of leak detection and repair of pump/pipeline based on preventive maintenance. The acid shall be taken from storage tanks to reactor through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. Cathodic protection shall be provided to the underground solvent storage tanks.
PPs Submission: Complied Raw material (powder & liquids) are being charged through closed pipelines from storage area to process area There are no reactors. Preventive maintenance being carried out. No acid is used in our process.		Date: 13/04/2024
10	Statutory compliance	Total fresh water requirement from APIIC water supply shall not exceed 524 cum/day and prior permission shall be obtained from the concerned authority and a copy submitted to the ministry Regional office at Bangalore. No ground water shall be used.
PPs Submission: Complied Noted. Permission letter available. No ground water is being used.		Date: 13/04/2024
11	WATER QUALITY MONITORING AND PRESERVATION	Total industrial waste water generation shall not exceed 84 cum/day. Industrial effluent shall be treated in ETP comprising physiochemical treatment facility, biological treatment and tertiary

		treatment. Treated effluent shall be recycled/reused with in factory premises after achieving desired water quality for various purposes.
PPs Submission: Complied Noted. Fully operational ETP with all necessary units is available. The treated water is being used for toilet flushing		Date: 13/04/2024
12	Statutory compliance	No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopted.
PPs Submission: Being Complied Effluent is not at all discharged.		Date: 13/04/2024
13	Risk Mitigation and Disaster Management	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrestors shall be provided on tank farm. Solvent transfer shall be by pumps.
PPs Submission: Complied No hazardous chemicals are being used in our plant. No solvents are being used.		Date: 13/04/2024
14	Statutory compliance	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under hazardous Waste (management, Handling and Transboundary Movement) rules, 2016 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid /hazardous wastes in the TSDF. Measures shall be taken from for firefighting facilities in case of emergency.
PPs Submission: Complied HW authorization available. Fire detection system and fire protection systems are available.		Date: 13/04/2024
15	Statutory compliance	The company shall strictly comply with the rules and guidelines under manufacture, Storage and Import of hazardous chemicals (MSIHC) Rules 1989 as amended time to time. All Transportation of hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
PPs Submission: Complied None of the raw materials used in our plant fall under MSIHC rules.		Date: 13/04/2024
16	WASTE MANAGEMENT	The company shall undertake following waste minimization measures : Metering and control of quantities of active ingredients to minimize waste. Reuse of by – products from the process as raw materials or as raw material substitute in other processes. Use of automated filling to minimize spillage. Use of close feed system into batch reactors. Venting equipment through vapor recovery system Use of high-pressure hoses for equipment cleaning to reduce waste water generation.
PPs Submission: Complied All the powder and liquid ingredients will be taken from pneumatic conveying system with load cell and flow meter which automatically decreases the wastage. There is no by-product in our process. Automated filling lines are being used. Closed loop feeding system is implemented. No solvents are being used. High pressure jet pumps are being used for cleaning of equipment.		Date: 13/04/2024
17	MISCELLANEOUS	Proper spillage management plan shall be prepared and implemented. A copy of spillage management plan shall be submitted to the Ministry’s regional office at Bangalore.

PPs Submission: Complied Spillage management plan available.		Date: 13/04/2024
18	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the OISD 117 norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas.
PPs Submission: Complied Adequate fire protection and fire detection systems are available		Date: 13/04/2024
19	GREENBELT	Green belt shall be developed in 80,617 sqm out of total land 1, 92, 831 sqm. Thick green belt with suitable plant species shall be developed around the unit to mitigate the odor problem.
PPs Submission: Complied Adequate green belt is maintained which is 41.5 % of total site area.		Date: 13/04/2024
20	AIR QUALITY MONITORING AND PRESERVATION	Adequate stack height shall be provided to HSD/LDO fired steam boilers (5 Nos) to control air emissions. As proposed adequate dust extraction system shall be provided to capture fugitive emissions of fine particles from mixers during powder charging.
PPs Submission: Being Complied Currently there are no Boilers in our plant. For Mixers the plant has a dedicated dust extraction system.		Date: 13/04/2024
21	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO ₂ , NO _x , CO and HC) and particulate matter from boiler stack shall conform to the norms prescribed by the CPCB/AP pollution Control Board (APPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measure are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.
PPs Submission: Complied Currently there are no Boilers in our plant. Hence it is not applicable.		Date: 13/04/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Human Health Environment	Usage of Personnel protection equipment (PPEs) by all employees/workers shall be ensured.
PPs Submission: Complied Adequate PPE being provided to employees and usage is monitored and ensured.		Date: 13/04/2024
2	Statutory compliance	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures

		required if any.
PPs Submission: Agreed to Comply Noted		Date: 13/04/2024
3	AIR QUALITY MONITORING AND PRESERVATION	The locations of ambient air quality monitoring stations shall be decided in consultation with the State pollution Control Board and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated.
PPs Submission: Complied AAQ stations installed.		Date: 13/04/2024
4	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under environment (protection) Act 1986 rules viz. 75 dBA (day time) and 70 dBA (night time)
PPs Submission: Being Complied Noise monitoring being done.		Date: 27/04/2024
5	Human Health Environment	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
PPs Submission: Complied 22 Nos of rain water recharge pits are available. Strom water drains in plant are directed towards rainwater harvesting/recharge pits.		Date: 13/04/2024
6	Human Health Environment	Training shall be imparted to the employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for the all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
PPs Submission: Complied Training being imparted to all employees on safe handling of chemicals. Medical (pre employment and periodic) examinations are being done.		Date: 13/04/2024
7	MISCELLANEOUS	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
PPs Submission: Complied Complied		Date: 13/04/2024
8	Statutory compliance	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administrations.

<p>PPs Submission: Being Complied CSR activities being undertaken. For the financial year 23-24, laboratory equipment have been donated at the government poly technique colleges at Hindupur & Madakasira in Sri Satya Sai District with a total expenditure of ₹ 18,17,200.</p>		<p>Date: 27/04/2024</p>
9	Corporate Environmental Responsibility	The company shall undertake eco developmental measures including community welfare in the project area for the overall improvement of the environment.
<p>PPs Submission: Complied CER activities being undertaken Cleaned lake by removing plastics and other wastes in Santhebidanuru, a village near by Berger paints India Limited - Hindupur plant Collected plastic wastes from Kotipi village.</p>		<p>Date: 03/05/2024</p>
10	Human Health Environment	A separate environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
<p>PPs Submission: Complied Separate environment management cell with laboratory is available and functional.</p>		<p>Date: 13/04/2024</p>
11	Human Health Environment	The company shall earmark sufficient funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purposes.
<p>PPs Submission: Complied Separate funds are earmarked and they are never diverted for other purposed. Total expenditure for env. matters for the FY23-24 is ₹ 1,23,51,362 Item wise cost details are as follows: Consumables cost for ETP: ₹ 5,56,216 Electricity cost for ETP: ₹ 3,78,840 Manpower cost: ₹ 16,98,292 Capital expenditure towards Env. matters: ₹ 74,00,000 Env monitoring: ₹ 4,46,666 HW disposal: ₹ 9,99,900 Repair and maintenance cost: ₹ 2,09,149 Power cost for dust collector operation: ₹ 3,02,667</p>		<p>Date: 03/05/2024</p>
12	MISCELLANEOUS	A copy of the clearance letter shall be sent by the project proponent to concerned panchayat, Zilla parishad/Municipal corporation, union local body and the local NGO, if any from who suggestions representations, if any, were received while processing the proposal.
<p>PPs Submission: Agreed to Comply No such representations received.</p>		<p>Date: 13/04/2024</p>
13	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as my e-mail) to the respective Regional Office of MoEF , the respective Zonal office of CPCB and the AP Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
<p>PPs Submission: Being Complied Last six monthly compliance report (Apr 2023 to Sep 2023) submitted on 12th December 2023</p>		<p>Date: 27/04/2024</p>
14	Statutory compliance	The environmental statement for each financial year ending 31st March in Form - V as is mandated shall submitted to the concerned

		State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
PPs Submission: Being Complied Being complied		Date: 21/04/2024
15	MISCELLANEOUS	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
PPs Submission: Complied Complied		Date: 21/04/2024
16	MISCELLANEOUS	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
PPs Submission: Complied Complied		Date: 21/04/2024
17	Statutory compliance	The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.
PPs Submission: Complied Noted		Date: 13/04/2024
Visit Remarks		
Last Site Visit Report Date:		25/04/2024
Additional Remarks:		Half yearly compliance report for the period of Oct 23 to Mar 24

Your (**Environment Clearance**) application has been **Submitted** with following details

Proposal No	IA/AP/IND/21749/1910
Compliance ID	60365431
Compliance Number(For Tracking)	EC/M/COMPLIANCE/60365431/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	03-05-2024
IRO Name	V Geroge Jenner
IRO Email	tr025@ifs.nic.in
State	ANDHRA PRADESH
IRO 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.

ENVIRONMENTAL MONITORING REPORT

March, 2024

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

CONSULTANT

MINERAL ENGINEERING SERVICES
(Accredited by QCI-NABET ORG000756)
25/XXV, Club Road, BELLARY-583103,
Karnataka, Tel 08392-267421, Mob:
0919448367421,
Email : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

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)

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



TEST REPORT

Table No. 1 a

AMBIENT AIR QUALITY

Report No : N037424035

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

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

Barometric pressure : 705 mm of Hg

Temperature : Min 22.0°C Max 36.0°C

Relative Humidity : Min 31% Max 52%

Duration : 24 Hrs.

Issue Date : 29.03.2024

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
26.03.2024	N/24/03/5-0374	12	18	58	33	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
26.03.2024	N/24/03/5-0374	0.18	<0.1	<0.5	<0.5	0.32	28
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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



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TEST REPORT

Table No. 1 b

AMBIENT AIR QUALITY

Report No : N037524035

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A2 - Near ETP Area
Barometric pressure	: 705 mm of Hg
Temperature	: Min 22.0°C Max 36.0°C
Relative Humidity	: Min 31% Max 52%
Duration	: 24 Hrs.
Issue Date	: 29.03.2024

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
26.03.2024	N/24/03/5-0375	14	16	55	28	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
26.03.2024	N/24/03/5-0375	0.21	<0.1	<0.5	<0.5	0.45	23
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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

TEST REPORT

Table No. 1 c

AMBIENT AIR QUALITY

Report No : N037624035

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A3 - Near Admin (U/G Water Tank)
Barometric pressure	: 705 mm of Hg
Temperature	: Min 22.0°C Max 36.0°C
Relative Humidity	: Min 31% Max 52%
Duration	: 24 Hrs.
Issue Date	: 29.03.2024

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
26.03.2024	N/24/03/5-0376	11	14	48	27	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
26.03.2024	N/24/03/5-0376	0.13	<0.1	<0.5	<0.5	0.22	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

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 1 d

AMBIENT AIR QUALITY

Report No : N037724035

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.						
Location	: A4 - Near Green Belt Area						
Barometric pressure	: 705 mm of Hg						
Temperature	: Min 22.0°C Max 36.0°C						
Relative Humidity	: Min 31% Max 52%						
Duration	: 24 Hrs.						
Issue Date	: 29.03.2024						

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
26.03.2024	N/24/03/5-0377	9	12	53	29	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
26.03.2024	N/24/03/5-0377	0.16	<0.1	<0.5	<0.5	0.3	24
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr


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TEST REPORT

Table No.1 e

FUGITIVE AIR QUALITY

Report No : N038024035

Project		: Berger Paints India Limited, Industrial Park Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP			
Locatuon		: A5 - 1st Floor water Base			
Barometric pressure		: 705 mm of Hg			
Temperature		: Min 22.0°C Max 36.0°C			
Relative Humidity		: Min 31% Max 52%			
Issue Date		: 29.03.2024			
		Duration		: 8 Hrs	
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				RPM µg/m ³	SPM µg/m ³
27.03.2024	N/24/03/5-0380	14	15	112	321
Methods of Measuremant		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No.1 f

FUGITIVE AIR QUALITY

Report No : N038124035

Project		: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP			
Locatuon		: A6 - Raw Materal Area Ground Floor			
Barometric pressure		: 705 mm of Hg			
Temperature		: Min 22.0°C Max 36.0°C			
Relative Humidity		: Min 31% Max 52%			
Issue Date		: 29.03.2024			
		Duration		: 8 Hrs	
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				RPM µg/m ³	SPM µg/m ³
27.03.2024	N/24/03/5-0381	13	18	121	335
Methods of Measuremant		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No. 1 g

AMBIENT AIR QUALITY VOC TEST REPORT

Report No. : N037824035

Project : Berger Paints India Limited, Industrial Park,

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

Sample Collected by : Environmental Laboratory Representative

Date of Monitoring : 26.03.2024

Lab Code : N/24/03/5-0378

Issue Date : 29.03.2024

Location		WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
Sl No	Parameters	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$
1	Benzene	BDL	BDL	1.08	BDL
2	Toulene	BDL	BDL	BDL	0.70
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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

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TEST REPORT

Table No. 1h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Report No : N0374/0375/037624035

Project : Berger Paints India Limited, Industrial Park,						
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.						
Sample Collected by : Environmental Laboratory Representative						
Date of Monitoring : 26.03.2024						
Issue Date : 29.03.2024						
Location		DG Set Back Side (250KVA & 1250KVA)	Near ETP Area	Near Admin (U/G Water Tank)	Near Green Belt Area	Method of Testing
Lab Code		N/24/03/5-0374	N/24/03/5-0375	N/24/03/5-0376	N/24/03/5-0377	
Sl No	Parameters	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	IS 5182 (P -19)1979 (RA 2009)
1	Methane	<1.0	<1.0	<1.0	<1.0	
2	Non Methane	<1.0	<1.0	<1.0	<1.0	

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TEST REPORT

Table No. 2 a
Report No : N029224035

Name of the Project : Berger Paints India Limited, Industrial Park
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory Representative
Location of Sampling : Raw Effluent water
Date of sample collection : 26.03.2024
Date of sample receipt : 27.03.2024
Lab Code : N/24/03/5-0292
Issue Date : 29.03.2024
Ref : Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Sl. No.	Parameters	Result	Method of Testing
1	pH	7.97	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	2472	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	690	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	1510	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	55.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019
**** END OF REPORT****			

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TEST REPORT

Table No. 2 b

Report No :N029324035

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory Representative
Location of Sampling	: Effluent Treated Plant water
Date of sample collection	: 26.03.2024
Date of sample receipt	: 27.03.2024
Lab Code	: N/24/03/5-0293
Issue Date	: 29.03.2024

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.92	6.0 to 8.5	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1805	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	72	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	190	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	17.2	30	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT""

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TEST REPORT

Table No. 6

NOISE LEVEL DATA

Report No. EL01524035

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.							
Sample Collected by : Environmental Laboratory Representative							
Date of sample collection : 26.03.2024							
Issue Date : 29.03.2024							
Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WBP Manufacturing building 1 st floors	40.8	63.5	71.5	37.6	46.5	52.9
N2	Near Gate No 1 outside	47.8	61.2	70.5	36.8	46.6	51.0
N3	RMS Area	44.4	51.7	60.5	36.0	44.4	50.8
N4	DG Set Area at 1mtr distance	40.0	58.0	63.0	34.3	47.2	54.0
N5	Near Gate No 2 outside	47.8	69.0	77.1	36.5	46.5	58.0
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines							
Leq. Limit dB(A)							
		Day		Night			
Industrial areas		75		70			
Commercial area		65		55			
Residential area		55		45			
Permissible limits as per ILO Code of Practice							
For Unprotected ear - 8 hrs working shift							
Warning limit - 85 dB(A)							
Danger limit - 90 dB(A)							
Worker not to be exposed for more than 115 dB(A)							
With ear protection -							
130 dB(A) 'Impulse' or 120 dB(A) 'Fast'							
No entry when noise level exceeds 140 dB(A)							

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TEST REPORT

Table No. 8a

Stack Monitoring Report

Report No : N029924035

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 1
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 26.03.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 27.03.2024
Lab Code	: N/24/03/5-0299
Issue date	: 29.03.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	36
6	Stack Temperature (°C)	150
7	Velocity (m/s)	18.62
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	415
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338-DTH-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.72	≤ 4.0
2	CO		0.70	≤ 3.5
3	PM		0.12	≤ 0.2

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TEST REPORT

Table No. 8b

Stack Monitoring Report

Report No : N030024035

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.			
Stack ID	: DG set 2			
Sample Collected by	: Environmental Laboratory Representative			
Date of sample Collection	: 26.03.2024			
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1			
Date of Sample Receipt	: 27.03.2024			
Lab Code	: N/24/03/5-0300			
Issue date	: 29.03.2024			
GENERAL DETAILS				
1	Fuel Used	Diesel		
2	Capacity (KVA)	1250		
3	Stack height (M)	5		
4	Stack diameter (M)	0.38		
5	Ambient Temperature (°C)	36		
6	Stack Temperature (°C)	346		
7	Velocity (m/s)	18.20		
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6505		
9	Sample Condition When Received	Satisfactory		
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1		
11	Serial No. of the Equipment	338-DTH-2014		
12	Calibration done on and due on	18.11.2024		
13	Test Method	IS: 11255		
Pollutional Parameters (Result)				
Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	126.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	62.6	100
3	PM (at 15% O ₂),	mg/Nm ³	56.2	75
4	CO (at 15% O ₂),	mg/Nm ³	44.4	150

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TEST REPORT

Table No. 8c

Stack Monitoring Report

Report No : N030124035

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 3
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 26.03.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 27.03.2024
Lab Code	: N/24/03/5-0301
Issue date	: 29.03.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	36
6	Stack Temperature (°C)	362
7	Velocity (m/s)	18.46
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6599
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338-DTH-2014
12	Calibration done on and due on	18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	163.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	81.1	100
3	PM (at 15% O ₂),	mg/Nm ³	52.5	75
4	CO (at 15% O ₂),	mg/Nm ³	45.0	150

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TEST REPORT

Table No. 10

RESULTS OF RESIPARBLE AIR-BORNE DUST SURVEY

Report No. : N037924035

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

Sample Collected by : Environmental Laboratory Representative

Duration : 08 Hrs

Instrument Used : Environtech APM 801

Calibration due date of instrument : 17.07.2024

Date of sample : 26.03.2024

Lab Code : N/24/03/5-0379

Issue date : 29.0.2024

Sl.No	Date Sampling	Loaction	Name of Person	Result (mg/m ³)	Instrument Serial No
1	26.03.2024	WBP first floor	Static	1.28	199 DTH 2017
2	26.03.2024	WBP ground floor	Static	1.02	235 DTC 2019
3	26.03.2024	ASRS loading bay	Imran	1.81	197 DTH 2017
4	26.03.2024	RMS first floor	Static	0.67	196 DTH 2017
5	26.03.2024	RMS ground floor	Static	1.30	195 DTH 2017
6	26.03.2024	ETP	Static	1.96	237 DTC 2019

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

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ENVIRONMENTAL MONITORING REPORT

February, 2024

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

CONSULTANT

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TEST REPORT

Table No. 1 a

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.						
Location	: A1 - DG Set Back Side (250KVA & 1250KVA)						
Barometric pressure	: 705 mm of Hg						
Temperature	: Min 17.0°C Max 33.0°C						
Relative Humidity	: Min 17% Max 58%						
Duration	: 24 Hrs.						
Issue Date	: 20.02.2024						

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
13.02.2024	N/24/02/4-0080	14	18	53	32	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
13.02.2024	N/24/02/4-0080	0.18	<0.1	<0.5	<0.5	0.25	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 b

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A2 - Near ETP Area
Barometric pressure	: 705 mm of Hg
Temperature	: Min 17.0°C Max 33.0°C
Relative Humidity	: Min 17% Max 58%
Duration	: 24 Hrs.
Issue Date	: 20.02.2024

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
13.02.2024	N/24/02/4-0081	11	13	48	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
13.02.2024	N/24/02/4-0081	0.21	<0.1	<0.5	<0.5	0.32	25
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 c

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A3 - Near Admin (U/G Water Tank)
Barometric pressure	: 705 mm of Hg
Temperature	: Min 17.0°C Max 33.0°C
Relative Humidity	: Min 17% Max 58%
Duration	: 24 Hrs.
Issue Date	: 20.02.2024

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
13.02.2024	N/24/02/4-0082	10	11	35	21	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
13.02.2024	N/24/02/4-0082	0.16	<0.1	<0.5	<0.5	0.22	23
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 d

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.						
Location	: A4 - Near Green Belt Area						
Barometric pressure	: 705 mm of Hg						
Temperature	: Min 17.0°C Max 33.0°C						
Relative Humidity	: Min 17% Max 58%						
Duration	: 24 Hrs.						
Issue Date	: 20.02.2024						

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
13.02.2024	N/24/02/4-0083	7	9	41	27	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
13.02.2024	N/24/02/4-0083	0.13	<0.1	<0.5	<0.5	0.24	21
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No.1 e

FUGITIVE AIR QUALITY

Project		: Berger Paints India Limited, Industrial Park Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP			
Locatuon		: A5 - 1st Floor water Base			
Barometric pressure		: 705 mm of Hg			
Temperature		: Min 17.0°C Max 33.0°C			
Relative Humidity		: Min 17% Max 58%			
Issue Date		: 20.02.2024			
		Duration		: 8 Hrs	
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				RPM µg/m ³	SPM µg/m ³
14.02.2024	N/24/02/4-0084	13	18	93	248
Methods of Measuremant		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No.1 f

FUGITIVE AIR QUALITY

Project	: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP				
Locatuon	: A6 - Raw Materal Area Ground Floor				
Barometric pressure	: 705 mm of Hg				
Temperature	: Min 17.0°C Max 33.0°C				
Relative Humidity	: Min 17% Max 58%				
Issue Date	: 20.02.2024				
Duration : 8 Hrs					
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				RPM µg/m ³	SPM µg/m ³
14.02.2024	N/24/02/4-0085	12	15	96	256
Methods of Measuremant		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No. 1 g

AMBIENT AIR QUALITY VOC TEST REPORT

Project : Berger Paints India Limited, Industrial Park,
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by : Environmental Laboratory Representative
Date of Monitoring : 13.02.2024
Issue Date : 20.02.2024

Sl No	Parameters	WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
		Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$
1	Benzene	BDL	BDL	1.08	BDL
2	Toulene	BDL	BDL	BDL	0.70
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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

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TEST REPORT

Table No. 1 h

AMBIENT AIR QUALITY HYDROCARBONS TEST REPORT

Project : Berger Paints India Limited, Industrial Park,			
Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.			
Sample Collected by : Environmental Laboratory Representative			
Date of Monitoring : 13.02.2024			
Issue Date : 20.02.2024			
SI No.	Locations	Results	
		Methane (ppm)	Non Methane (ppm)
1	DG Set Back Side (250KVA & 1250KVA)	<1.0	<1.0
2	Near ETP Area	<1.0	<1.0
3	Near Admin (U/G Water Tank)	<1.0	<1.0
4	Near Green Belt Area	<1.0	<1.0
Method of Testing		IS 5182 (P -19)1979 (RA 2009)	IS 5182 (P -21)2001

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TEST REPORT

Table No. 2 a

Report No. N004324023

Name of the Project		: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory Representaive	
Location of Sampling		: Raw Effluent water	
Date of sample collection		: 13.02.2024	
Date of sample receipt		: 15.02.2024	
Lab Code		: N/24/02/3-0043	
Issue Date		: 20.02.2024	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	8.06	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	2400	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	700	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	1470	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27 ^o C] (mg/l), Max	52.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019
"" END OF REPORT""			

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TEST REPORT

Table No. 2 b
Report No. N004424023

Name of the Project	: Berger Paints India Limited, Industrial Park Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory Representative
Location of Sampling	: Effluent Treated Plant water
Date of sample collection	: 13.02.2024
Date of sample receipt	: 15.02.2024
Lab Code	: N/24/02/3-0044
Issue Date	: 20.02.2024

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.10	6.0 to 8.5	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1770	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	56	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	182	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	13.5	30	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT ""

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TEST REPORT

Table No. 6

NOISE LEVEL DATA

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.							
Sample Collected by : Environmental Laboratory Representative							
Date of sample collection : 13.02.2024							
Issue Date : 20.02.2024							
Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WB Manufacturing building 1 st floors	40.0	65.9	70.0	39.0	49.2	53.2
N2	Near Gate No 1 outside	43.0	61.9	68.0	40.5	50.6	55.3
N3	RM Area	37.2	61.8	65.0	35.6	45.3	52.0
N4	DG Set Area at 1mtr distance	40.0	58.0	63.0	36.0	44.9	51.0
N5	Near Gate No 2 outside	38.0	62.9	66.8	36.5	47.1	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. 7a

Stack Monitoring Report

Report No. : N005324023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 1
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 13.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 15.02.2024
Lab Code	: N/24/02/3-0053
Issue date	: 20.02.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	33
6	Stack Temperature (°C)	175
7	Velocity (m/s)	18.60
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	415
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 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	g/Kw-Hr	0.61	≤ 4.0
2	CO		0.66	≤ 3.5
3	PM		0.10	≤ 0.2

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TEST REPORT

Table No. 7b

Stack Monitoring Report

Report No. : N005424023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 2
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 13.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 15.02.2024
Lab Code	: N/24/02/3-0054
Issue date	: 20.02.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	33
6	Stack Temperature (°C)	341
7	Velocity (m/s)	18.12
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6521
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 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	320.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	59.3	100
3	PM (at 15% O ₂),	mg/Nm ³	53.0	75
4	CO (at 15% O ₂),	mg/Nm ³	41.2	150

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TEST REPORT

Table No. 7c

Stack Monitoring Report

Report No. : N005524023

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 3
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 13.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 15.02.2024
Lab Code	: N/24/02/3-0055
Issue date	: 20.02.2024

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	33
6	Stack Temperature (°C)	354
7	Velocity (m/s)	18.34
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6600
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 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	280.0	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	89.0	100
3	PM (at 15% O ₂),	mg/Nm ³	49.0	75
4	CO (at 15% O ₂),	mg/Nm ³	46.5	150

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TEST REPORT

Table No. 7d

Stack Monitoring Report

Report No. : N00632403

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: Stack of Dust Collectors
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 14.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 15.02.2024
Lab Code	: N/24/02/3-0063
Issue date	: 20.02.2024

GENERAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature (⁰ C)	33
5	Stack Temperature (⁰ C)	48
6	Velocity (m/sec)	13.20
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	18548
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	338 DTH 14
11	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Test Method	IS: 11255

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	40.8
2	NO _x as (NO ₂)	mg/Nm ³	15.2
3	Particulate Matter (PM)	mg/Nm ³	22

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ENVIRONMENTAL MONITORING REPORT

November, 2023

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

CONSULTANT

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TEST REPORT

Table No. 1 a

AMBIENT AIR QUALITY

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

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

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 26.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
06.11.2023	N/23/11/3-0028	12	14	46	22	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
06.11.2023	N/23/11/3-0028	<0.1	<0.5	<0.5	<0.5	<0.2	<20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 b

AMBIENT AIR QUALITY

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

Location : A2 - Near ETP Area

Barometric pressure : 705 mm of Hg

Temperature : Min 18.0°C Max 26.0°C

Relative Humidity : Min 54% Max 79%

Duration : 24 Hrs.

Issue Date : 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
06.11.2023	N/23/11/3-0029	9	12	40	20	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
06.11.2023	N/23/11/3-0029	0.11	<0.5	<0.5	<0.5	<0.2	21
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 c

AMBIENT AIR QUALITY

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Location	: A3 - Near Admin (U/G Water Tank)
Barometric pressure	: 705 mm of Hg
Temperature	: Min 18.0°C Max 26.0°C
Relative Humidity	: Min 54% Max 79%
Duration	: 24 Hrs.
Issue Date	: 16.11.2023

Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
06.11.2023	N/23/11/3-0030	7	9	38	19	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
06.11.2023	N/23/11/3-0030	<0.1	<0.5	<0.5	<0.5	<0.2	20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 1 d

AMBIENT AIR QUALITY

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.							
Location : A4 - Near Green Belt Area							
Barometric pressure : 705 mm of Hg							
Temperature : Min 18.0°C Max 26.0°C							
Relative Humidity : Min 54% Max 79%							
Duration : 24 Hrs.							
Issue Date : 16.11.2023							
Date of Sampling	Lab Code	Concentration					
		Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
06.11.2023	N/23/11/3-0031	11	12	48	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual
Date of Sampling	Lab Code	Concentration					
		Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
06.11.2023	N/23/11/3-0031	<0.1	<0.5	<0.5	<0.5	<0.2	24
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr
Note : * Parameters monitored for period of 1 hr							

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TEST REPORT

Table No.1 e

FUGITIVE AIR QUALITY

Project : Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP					
Locatuon : A5 - 1st Floor water Base					
Barometric pressure : 705 mm of Hg					
Temperature : Min 18.0°C Max 26.0°C					
Relative Humidity : Min 54% Max 79%					
Issue Date : 16.11.2023					
Duration : 8 Hrs					
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				SPM µg/m ³	RPM µg/m ³
07.11.202	N/23/11/3-0069	12	15	245	87
Methods of Measuremant		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No.1 f

FUGITIVE AIR QUALITY

Project		: Berger Paints India Limited, Industrial Park, Thumakunta (V), Hindupuram (M), Anantapuram Dist, AP			
Locatuon		: A6 - Raw Materal Area Ground Floor			
Barometric pressure		: 705 mm of Hg			
Temperature		: Min 18.0°C Max 26.0°C			
Relative Humidity		: Min 54% Max 79%			
Issue Date		: 16.11.2023			
Duration : 8 Hrs					
Monitoring Date	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				SPM µg/m ³	RPM µg/m ³
07.11.2023	N/23/11/3-0070	11	13	288	93
Methods of Measuremant		Improved West & Gaeke	Modified Jacob & Hochheiser	Gravimetric	Gravimetric
Ref : EPA Notification :GSR176 (E)					
Permissible limits for Industrial Area, (Max)		SO ₂	NO ₂	SPM	RPM
		120	120	500	150

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TEST REPORT

Table No. 1 g

AMBIENT AIR QUALITY

VOC TEST REPORT

Project : Berger Paints India Limited, Industrial Park, Thumakunta village,

Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.

Sample Collected by : Environmental Laboratory Representative

Date of Monitoring : 06.11.2023

Issue Date : 16.11.2023

Sl No	Parameters	WB manufacturing building	Raw Material 1 st floor,	Tank yard	QC Lab
		Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$
1	Benzene	0.46	0.66	1.11	0.73
2	Toulene	BDL	BDL	BDL	0.68
3	Ethylbenzene	BDL	BDL	BDL	BDL
4	m-Xylene	BDL	BDL	BDL	BDL

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

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TEST REPORT

Table No. 2 a
Report No. ED013323112

Name of the Project		: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.	
Sample Collected by		: Environmental Laboratory Representative	
Location of Sampling		: Raw Effluent water	
Date of sample collection		: 07.11.2023	
Date of sample receipt		: 08.11.2023	
Lab Code		: ED/23/11/2-133	
Issue Date		: 16.11.2023	
Ref		: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016	
Sl. No.	Parameters	Result	Method of Testing
1	pH	6.59	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1930	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	580	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	IS 3025 (P-52)
12	COD (mg/l), Max	1238	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27 ^o C] (mg/l), Max	35.0	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	10% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019
"" END OF REPORT ""			

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TEST REPORT

Table No. 2 b

Report No. ED013423112

Name of the Project	: Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.
Sample Collected by	: Environmental Laboratory Representative
Location of Sampling	: Effluent Treated Plant water
Date of sample collection	: 07.11.2023
Date of sample receipt	: 08.11.2023
Lab Code	: ED/23/11/2-134
Issue Date	: 16.11.2023

Sl. No.	Parameters	Result	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.21	6.0 to 8.5	IS 3025 (P-11)2017
2	Oil & Grease (mg/l), Max	<0.1	10	IS 3025 (P-39)1991 RA 2019
3	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1
4	Dissolved Solids (inorganic) mg/l, Max.	1860	2100	IS 3025 (P-16)1984 RA 2017
5	Suspended Solids (mg/l), Max	63	100	IS 3025 (P-16)1984 RA 2017
6	Lead as Pb (mg/l), Max	<0.005	0.1	APHA 23rd Edition Method No 3030K
7	Copper as Cu (mg/l), Max	<0.005	3.0	APHA 23rd Edition Method No 3030K
8	Zinc as Zn (mg/l), Max	<0.005	5.0	APHA 23rd Edition Method No 3030K
9	Nickel as Ni (mg/l), Max	<0.001	3.0	APHA 23rd Edition Method No 3030K
10	Total Chromium as Cr(mg/l), Max	<0.001	2.0	APHA 23rd Edition Method No 3030K
11	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52)
12	COD (mg/l), Max	58	250	IS 3025 (P-58) 2006 RA 2017
13	BOD [3 days at 27°C] (mg/l), Max	16.0	30	IS 3025 (P-44) 1993 RA 2019
14	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent	90% survival of fish after 96 hrs in 100% effluent	IS 6582:1971 RA2019

"" END OF REPORT ""

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TEST REPORT

Table No. 6

NOISE LEVEL DATA

Name of the Project : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh.							
Sample Collected by : Environmental Laboratory Representative							
Date of sample collection : 06.11.2023							
Issue Date : 16.11.2023							
Code No.	Monitoring stations	Day			Nigt		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	WB Manufacturing building 1 st floors	43.4	50.7	57.6	40.0	49.9	55.0
N2	Near Gate No 1 outside	41.0	55.2	65.0	43.0	52.5	58.0
N3	RM Area	39.0	55.1	62.0	37.0	49.2	53.2
N4	DG Set Area	47.0	57.8	67.5	38.0	52.7	57.2
N5	Near Gate: No 2 outside	36.0	52.9	56.9	36.5	43.7	54.0
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines							
Leq. Limit dB(A)							
		Day	Night				
Industrial areas		75	70				
Commercial area		65	55				
Residential area		55	45				
Permissible limits as per ILO Code of Practice							
For Unprotected ear - 8 hrs working shift							
Warning limit - 85 dB(A)							
Danger limit - 90 dB(A)							
Worker not to be exposed for more than 115 dB(A)							
With ear protection -							
130 dB(A) 'Impulse' or 120 dB(A) 'Fast'							
No entry when noise level exceeds 140 dB(A)							

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TEST REPORT

Table No. 7a

Stack Monitoring Report

Report No. : N0028A23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 1
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 08.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028A
Issue date	: 16.11.2023

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	250
3	Stack height (M)	5
4	Stack diameter (M)	0.13
5	Ambient Temperature (°C)	25
6	Stack Temperature (°C)	288
7	Velocity (m/s)	18.92
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	821
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 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Limits
1	Nox +HC	(g/Kw-Hr)	1.21	≤ 4.0
2	CO		1.33	≤ 3.5
3	PM		0.127	≤ 0.2

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TEST REPORT

Table No. 7b

Stack Monitoring Report

Report No. : N0028B23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 2
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 08.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028B
Issue date	: 16.11.2023

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	25
6	Stack Temperature (°C)	320
7	Velocity (m/s)	16.71
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6196
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 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	226.7	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	49.5	100
3	PM (at 15% O ₂),	mg/Nm ³	44.2	75
4	CO (at 15% O ₂),	mg/Nm ³	37.9	150

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TEST REPORT

Table No. 7c

Stack Monitoring Report

Report No. : N0028C23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: DG set 2
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 08.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028C
Issue date	: 16.11.2023

GENERAL DETAILS

1	Fuel Used	Diesel
2	Capacity (KVA)	1250
3	Stack height (M)	5
4	Stack diameter (M)	0.38
5	Ambient Temperature (°C)	25
6	Stack Temperature (°C)	335
7	Velocity (m/s)	18.24
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	6762
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 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	DG Limits 0.8MW to 75MW
1	NO _x as (NO ₂) (at 15% O ₂), Dry basis	PPMV	249.4	710
2	NHC (as C) (at 15% O ₂),	mg/Nm ³	42.2	100
3	PM (at 15% O ₂),	mg/Nm ³	47.8	75
4	CO (at 15% O ₂),	mg/Nm ³	43.3	150

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TEST REPORT

Table No. 7d

Stack Monitoring Report

Report No. : N0028D23113

Name of the Industry	: Berger Paints India Limited,, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapur Dist., Andhra Pradesh.
Stack ID	: Stack of Dust Collectors
Sample Collected by	: Environmental Laboratory Representative
Date of sample Collection	: 07.11.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.11.2023
Lab Code	: N/23/11/3-0028D
Issue date	: 16.11.2023

GENERAL DETAILS

1	Fuel Used	-
2	Barometric pressure (mm of Hg)	705
3	Stack diameter (M)	0.74
4	Ambient Temperature (°C)	26
5	Stack Temperature (°C)	40
6	Velocity (m/sec)	12.67
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	16953
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	338 DTH 14
11	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Test Method	IS: 11255(Part-2) 1985

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results
1	Sulphur Dioxide (SO ₂)	mg/Nm ³	41.2
2	Nitrogen Dioxide (NO ₂)	mg/Nm ³	18.0
3	Particulate Matter (PM)	mg/Nm ³	18.6

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