



17th December 2021.

To,
The Director,
Ministry of Environment, Forest and Climate Change,
Regional Office (SEZ),
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 34

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

Dear Sir,

Please find our Half-Yearly report (Apr'21 to Sep'21) on compliance as per the requirement given.

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

Kindly acknowledge the receipt.

With Regards,
For Berger Paints India Ltd

Venkata Apparao.D
Factory Manager.

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, Plot No.15, Door. No: 4-2-740-15, BLT Villas, Tirumala Nagar, Tapovanam, Anantapur – 515001, 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, Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax: +91-33-2249 9009/9729, www.bergerpaints.com

CIN - L51434WB1923PLC004793, E-mail: consumerfeedback@bergerindia.com

Berger Paints India Limited, Hindupur

Pointwise Six-Months Compliance Report Apr'21 to Sep'21

| Sl. No | Conditions | Compliance Status(under construction stage) | Remarks |
|----------|---|---|---------|
| A | SPECIFIC CONDITIONS: | | |
| i) | Only water Paint shall be manufactured. No solvent paint shall be manufactured without prior permission obtained from ministry. | Complied | |
| ii) | No lead and chromium-based paint shall be manufactured. | Complied | |
| iii) | Adequate stack height shall be provided to HSD/LDO fired steam boilers (5 Nos) to control air emissions. As proposed adequate dust extraction system shall be provided to capture fugitive emissions of fine particles from mixers during powder charging. | Currently we are not operating HSD/LDO fire stream Boiler. For Mixers the plant has a dedicated dust extraction system. | |
| iv) | The gaseous emissions (SO ₂ , NO _x , CO and HC) and particulate matter from boiler stack shall conform to the norms prescribed by the CPCB/AP pollution Control Board (APPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measure are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly. | Currently we are not operating HSD/LDO fire steam Boiler | |
| v) | The levels of PM _{2.5} , NO _x , CO, HC (Methane and Non-methane) and VOCs shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office MOEF, the respective Zonal office of CPCB and APPCB. | The applicable parameters are displayed at a convenient location near the main gate of the company for display to public. | |
| vi) | In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals /materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions | Adequate dust extraction system and water sprinkler system and Process system to control the fugitive emissions | |

Berger Paints India Limited, Hindupur

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| | in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emission shall conform to the limits stipulated by the APPCB. | | |
| vii) | VOCs detectors shall be installed in the work zone. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately. | It is not applicable for our case since we are not using any solvent. However, we have procured portable VOC digital meter and are using it to check the VOC as per the requirement | |
| viii) | For further control of fugitive emissions, following steps shall be followed | | |
| a | Closed handling system shall be provided for chemicals | Raw material (powder & liquids) are being charged through closed pipelines from storage area to process area | |
| b | Reflux condenser shall be provided over reactor. | NA | |
| c | System of leak detection and repair of pump/pipeline based on preventive maintenance. | PM being carried out | |
| d | The acid shall be taken from storage tanks to reactor through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. | NA | |
| e | Cathodic protection shall be provided to the underground solvent storage tanks. | NA | No solvents stored/No underground tanks |
| ix) | The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. | Complied | |
| x) | Total fresh water requirement from APIIC water supply shall not exceed 524 cum/day and prior permission shall be obtained from the concerned authority and a copy submitted to the ministry Regional office at Bangalore. No ground water shall be used. | Will not be using water more than 524 cum/day. | |
| xi) | Total industrial waste water generation shall not exceed 84 cum/day. Industrial effluent shall be treated in ETP comprising physiochemical treatment facility, biological treatment and tertiary treatment. Treated effluent shall be | Complied | |

Berger Paints India Limited, Hindupur

| | | | |
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| | recycled/reused with in factory premises after achieving desired water quality for various purposes. | | |
| xii) | No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopted. | Complied | |
| xiii) | Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrestors shall be provided on tank farm. Solvent transfer shall be by pumps. | Solvents are not being used in process. | |
| xiv) | The company shall obtain Authorization for collection, storage and disposal of hazardous waste under hazardous Waste (management, Handling and Transboundary Movement) rules, 2016 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid /hazardous wastes in the TSDF. Measures shall be taken from for firefighting facilities in case of emergency. | The solid waste will be disposed to M/s. Coastal Waste Management Project, Nellore (dist.) and M/s GM Eco services. Water Sprinkler system has been installed in Scrap Yard. | |
| xv) | The company shall strictly comply with the rules and guidelines under manufacture, Storage and Import of hazardous chemicals (MSIHC) Rules 1989 as amended time to time. All Transportation of hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989. | Complied. | |
| xvi) | The company shall undertake following waste minimization measures : | | |
| a | Metering and control of quantities of active ingredients to minimize waste. | All the powder and liquid ingredients will be taken from pneumatic conveying system with load cell and flow meter which automatically decreases the wastage. | |
| b | Reuse of by – products from the process as raw materials or as raw material substitute in other processes. | There is no by product in our process. | |
| c | Use of automated filling to minimize spillage. | Complied | |
| d | Use of close feed system into batch reactors. | Closed feeding system for TSDs & mixers is being used | |
| e | Venting equipment through vapor recovery system | It is not applicable as currently we are not using any | |

Berger Paints India Limited, Hindupur

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| | | solvents | |
| f | Use of high pressure hoses for equipment cleaning to reduce waste water generation. | Complied | |
| xvii) | Proper spillage management plan shall be prepared and implemented. A copy of spillage management plan shall be submitted to the Ministry's regional office at Bangalore. | Complied | |
| xviii) | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the OISD 117 norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas. | Complied | |
| xix) | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. | Complied | |
| xx) | Green belt shall be developed in 80,617 sqm out of total land 1, 92, 831 sqm. Thick green belt with suitable plant species shall be developed around the unit to mitigate the odor problem. | Complied More than 16 Acres | |
| xxi) | Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment. | Complied | |
| B. | GENERAL CONDITIONS: | | |
| i | The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board. | Shall be adhered. | |
| ii | No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required if any. | Will comply in those circumstances | |
| iii | The locations of ambient air quality monitoring stations shall be decided in consultation with the State pollution Control Board and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentrations are | Complied | Annexure Attached |

Berger Paints India Limited, Hindupur

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| | anticipated. | | |
| iv | 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) | Complied. | Annexure Attached |
| v | The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water. | Strom water in plant are directed towards rain water harvesting pits | |
| vi | Training shall be imparted to the employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for the all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. | Complied | Regular Training is given to all employees, Pre-employment and routine medical examination to all employees is under taken |
| vii | Usage of Personnel protection equipment (PPEs) by all employees/ workers shall be ensured. | Complied | |
| viii | The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented. | Complied | |
| ix | The company shall undertake all relevant measures for improving the socio economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administrations. | Complied. | |
| x | The company shall undertake eco developmental measures including community welfare in the project area for the overall improvement of the environment. | Complied. | |
| xi | A separate environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. | Complied. | |
| xii | The company shall earmark sufficient funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as state Government along with the implementation schedule for all the conditions stipulated herein. | Adhered. | |

Berger Paints India Limited, Hindupur

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| | management/pollution control measures shall not be diverted for any other purposes. | | |
| xiii | 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. | Noted and will be complied | |



Signature

Name: Venkata Apparao D

Address: Berger Paints India Ltd

Plot No: 262, Industrial Area,

Hindupur,

Anantapur District.



MINERAL ENGINEERING SERVICES

(Recognised by GOI, MoEF&CC under E(P) Act 1986 Vide Gazette Notification
No. S.O. 857 (E) dated 26.02.2018. Recognition valid upto 25.02.2023



ISO9001:2015
OHSAS (ISO 45001:2018)

Table No. 1 a

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

| | |
|---------------------|--|
| Name of the Project | : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. |
| Location | : DG Set Back Side (250KVA & 1250KVA) |
| Barometric pressure | : 703 mm of Hg |
| Temperature | : Min 29.0°C Max 35.0°C |
| Relative Humidity | : Min 50% Max 71% |
| Duration | : 24 Hrs. |
| Date of Report | : 07.06.2021 |
| Report No | : MES/SS/ARN/259 |

| Date of Sampling | Concentration | | | | | |
|---|---|--|---|--|---|---|
| | Sulphur Dioxide (SO ₂), µg/m ³ | Nitrogen Dioxide (NO ₂), µg/m ³ | PM ₁₀ , (µg/m ³) | PM _{2.5} , (µg/m ³) | Ammonia (NH ₃), µg/m ³ | Benzene (C ₆ H ₆), µg/m ³ |
| 01.06.2021 to 02.06.2021 | 8 | 12 | 49 | 35 | <20 | <1 |
| Limits for Industrial, Residential, Rural and other Areas | 80 24 Hrs | 80 24 Hrs | 100 24 Hrs | 60 24 Hrs | 400 24 Hrs | 5 Annual |

| Date of Sampling | Concentration | | | | | |
|---|------------------------------|--------------------------------|---------------------------------|---|--|---|
| | Lead (Pb), µg/m ³ | Nickel (Ni), ng/m ³ | Arsenic (As), ng/m ³ | Benzo(a)Pyrene (BaP), ng/m ³ | Carbon Monoxide* (CO), mg/m ³ | Ozone* (O ₃), µg/m ³ |
| 01.06.2021 to 02.06.2021 | 0.19 | <0.5 | <0.5 | <0.5 | 0.33 | 27 |
| Limits for Industrial, Residential, Rural and other Areas | 1.0 24 Hrs | 20 Annual | 6 Annual | 1 Annual | 4 1 Hr | 180 1 Hr |

Note : * Parameters monitored for period of 1 hr

(M.R. DURGA PRASAD)
GOVT. ANALYST

(M.S. RAJU)
HEAD OF LABORATORY

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ISO9001:2015
OHSAS (ISO 45001:2018)

Table No. 1 b

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

| | |
|---------------------|--|
| Name of the Project | : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. |
| Location | : Near ETP Area |
| Barometric pressure | : 703 mm of Hg |
| Temperature | : Min 29.0°C Max 35.0°C |
| Relative Humidity | : Min 50% Max 71% |
| Duration | : 24 Hrs. |
| Date of Report | : 07.06.2021 |
| Report No | : MES/SS/ARN/260 |

| Date of Sampling | Concentration | | | | | |
|---|---|--|---|--|---|---|
| | Sulphur Dioxide (SO ₂), µg/m ³ | Nitrogen Dioxide (NO ₂), µg/m ³ | PM ₁₀ , (µg/m ³) | PM _{2.5} , (µg/m ³) | Ammonia (NH ₃), µg/m ³ | Benzene (C ₆ H ₆), µg/m ³ |
| 01.06.2021 to 02.06.2021 | 9 | 11 | 47 | 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 | 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 |
| 01.06.2021 to 02.06.2021 | 0.11 | <0.5 | <0.5 | <0.5 | 0.22 | 23 |
| Limits for Industrial, Residential, Rural and other Areas | 1.0 24 Hrs | 20 Annual | 6 Annual | 1 Annual | 4 1 Hr | 180 1 Hr |

Note : * Parameters monitored for period of 1 hr

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Table No. 1 c

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

| | |
|---------------------|--|
| Name of the Project | : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. |
| Location | : Near Admin (U/G Water Tank) |
| Barometric pressure | : 703 mm of Hg |
| Temperature | : Min 29.0°C Max 35.0°C |
| Relative Humidity | : Min 50% Max 71% |
| Duration | : 24 Hrs. |
| Date of Report | : 07.06.2021 |
| Report No | : MES/SS/ARN/261 |

| Date of Sampling | Concentration | | | | | |
|---|---|--|---|--|---|---|
| | Sulphur Dioxide (SO ₂), µg/m ³ | Nitrogen Dioxide (NO ₂), µg/m ³ | PM ₁₀ , (µg/m ³) | PM _{2.5} , (µg/m ³) | Ammonia (NH ₃), µg/m ³ | Benzene (C ₆ H ₆), µg/m ³ |
| 01.06.2021 to 02.06.2021 | 7 | 16 | 49 | 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 | 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 |
| 01.06.2021 to 02.06.2021 | 0.19 | <0.5 | <0.5 | <0.5 | 0.25 | 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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ISO9001:2015
OHSAS (ISO 45001:2018)

Table No. 1 d

ANALYSIS REPORT OF AMBIENT AIR QUALITY

MES/AQ/FTR/08/00

| | |
|---------------------|--|
| Name of the Project | : Berger Paints India Limited, Industrial Park, Thumakunta village, Hindupuram Mandal, Anantapuram Dist, Andhra Pradesh. |
| Location | : Near Green Belt Area |
| Barometric pressure | : 703 mm of Hg |
| Temperature | : Min 29.0°C Max 35.0°C |
| Relative Humidity | : Min 50% Max 71% |
| Duration | : 24 Hrs. |
| Date of Report | : 07.06.2021 |
| Report No | : MES/SS/ARN/262 |

| Date of Sampling | Concentration | | | | | |
|---|---|--|---|--|---|---|
| | Sulphur Dioxide (SO ₂), µg/m ³ | Nitrogen Dioxide (NO ₂), µg/m ³ | PM ₁₀ , (µg/m ³) | PM _{2.5} , (µg/m ³) | Ammonia (NH ₃), µg/m ³ | Benzene (C ₆ H ₆), µg/m ³ |
| 01.06.2021 to 02.06.2021 | 8 | 12 | 49 | 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 | 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 |
| 01.06.2021 to 02.06.2021 | 0.16 | <0.5 | <0.5 | <0.5 | 0.24 | 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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Table No. 6

NOISE LEVEL DATA

MES/NOISE/FR/02/00

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

Date of monitoring : 01.06.2021

Date of Report : 07.06.2021

Report No : MES/SS/NRN/22

| 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 | 38.9 | 56.8 | 70.8 | 35.8 | 52.6 | 69.5 |
| N2 | Near two gates outside | 40.3 | 70.6 | 86.6 | 35.5 | 65.6 | 79.5 |
| N3 | RM Area | 44.5 | 59.6 | 81.5 | 40.6 | 59.8 | 70.6 |
| N4 | DG Set Area | 59.6 | 73.8 | 86.5 | 50.6 | 70.6 | 81.9 |

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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