

F. No. J-11011/515/2010- IA II (I)

Government of India

Ministry of Environment and Forests

(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003

E-mail : [pb.rastogi@nic.in](mailto:pb.rastogi@nic.in)  
Telefax : 011: 2436 7668  
Dated 1<sup>st</sup> November, 2011

Proposal #  
IA/AP/IND/21749/1910

To,

Shri Sanjoy Bhowmic  
M/s Berger Paint India Ltd.  
Berger House, 129, Park Street  
Kolkata – 700017, West Bengal.

E-mail: [sanjaybasu@bergerindia.com](mailto:sanjaybasu@bergerindia.com), [sanjaybasu27@gmail.com](mailto:sanjaybasu27@gmail.com),

[sanjaybhowmick@bergerindia.com](mailto:sanjaybhowmick@bergerindia.com); Fax No. : 91-832-2395610

**Subject: Paints and Emulsion Manufacturing Facility at Plot No. 262, Thumunkunta Industrial Area, Village APIIC Growth Centre, Tehsil Hindupur, District Anantpur, Andhra Pradesh by M/s Berger Paints India Ltd. - Environmental Clearance reg.**

Ref. : Your letter no. nil dated 7<sup>th</sup> March, 2011.

Sir,

Kindly refer your letter dated 7<sup>th</sup> March, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and further information Submitted vide letter dated 2<sup>nd</sup> June, 2011 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for setting up of Paints and Emulsion Manufacturing Facility at Plot No. 262, Thumunkunta Industrial Area, Village APIIC Growth Centre, Tehsil Hindupur, District Anantpur, Andhra Pradesh by M/s Berger Paints India Ltd. Interstate boundary (i.e. Andhra Pradesh & Karnataka) is located within 10 km. Total plot area is 1,92,831 m<sup>2</sup>. No national park/wildlife sanctuary is located within 10 km. Penna River is flowing at 1.62 Km. Total project cost is Rs. 200.00 Crores. Following products will be manufactured:

S. N.	Products	Capacity
1	Water based emulsion paints	2,72,000 KLPA
2	Water based Distemper paints	48,000 MTPA
3	Water based Polymer Emulsion	1,00,000 MTPA

3.0 Stack of adequate height will be provided to oil fired steam boilers (5 Nos.) to control air emissions. Dust extraction system will be provided to capture fugitive emissions of fine particulates from mixers during powder charging. No solvent will be used in the manufacturing process. Total fresh water requirement from APIIC water supply will be 524 m<sup>3</sup>/day. Total industrial wastewater generation will be 84 m<sup>3</sup>/day. Industrial effluent will be treated in effluent treatment plant (ETP). Treated effluent will be recycled/reused within factory premises. No effluent will be discharged outside the factory premises and 'Zero' discharge concept will be adopted. ETP Sludge will be sent to TSDF. Used/spent oil will be sold to authorized re-processor.

4.0 Public hearing of the project was exempted as per Section (iii), Stage (3), Para (i)(b) of EIA Notification, 2006.

5.0 All the Integrated paint industry are listed at S.N. 5(h) under Category 'B'. However, due to applicability of general conditions (within 10 km of Interstate boundary), proposal is treated as Category 'A' and appraised at the Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17<sup>th</sup> and 24<sup>th</sup> meetings held during 22<sup>nd</sup>-23<sup>rd</sup> December, 2010 and 22<sup>nd</sup>-23<sup>rd</sup> June, 2011 respectively. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS:**

i) Only water based paint shall be manufactured. No solvent based paint shall be manufactured without prior permission obtained from Ministry.

ii) No lead and chromium based paint shall be manufactured.

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 particulates from mixers during powder charging.

iv) The gaseous emissions (SO<sub>2</sub>, NO<sub>x</sub>, CO and HC) and particulate matter from boiler stack shall conform to the norms prescribed by the CPCB/ A P 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 measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.

v) The levels of PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, 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 of MOEF, the respective Zonal office of CPCB and APPCB.

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 in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions 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.

viii) For further control of fugitive emissions, following steps shall be followed :

- a. Closed handling system shall be provided for chemicals.
- b. Reflux condenser shall be provided over reactor.
- c. System of leak detection and repair of pump/pipeline based on preventive maintenance.
- d. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
- e. Cathodic protection shall be provided to the underground solvent storage tanks.

---

ix) The gaseous emissions 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.

x) Total fresh water requirement from APIIC water supply shall not exceed 524 m<sup>3</sup>/day and prior permission shall be obtained from the concerned authority and a copy submitted to the Ministry's Regional Office at Bangalore. No ground water shall be used.

xi) Total industrial wastewater generation shall not exceed 84 m<sup>3</sup>/day. Industrial effluent shall be treated in ETP comprising physiochemical treatment facility, biological treatment and tertiary treatment. Treated effluent shall be recycled/reused within 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.

xiii) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.

xiv) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.

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.

xvi) The company shall undertake following waste minimization measures :-

- a. Metering and control of quantities of active ingredients to minimize waste.
- b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- c. Use of automated filling to minimize spillage.
- d. Use of Close Feed system into batch reactors.
- e. Venting equipment through vapour recovery system.
- f. ~~Use of high pressure hoses for equipment clearing to reduce wastewater generation.~~

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.

xviii) 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 alongwith fire monitor and flame detection system in the process as well as storage areas.

xix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

19.9 47.615  
xx) Green belt shall be developed in 80,617m<sup>2</sup> out of total land 1,92,831 m<sup>2</sup>. Thick greenbelt with suitable plant species shall be developed around the unit to mitigate the odour problem.

xxi) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, 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.

## B. GENERAL CONDITIONS:

i. The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.

ii. No further expansion or modifications 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 environmental protection measures required, if any.

iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

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.

vi. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

vii. Usage of Personnel Protection Equipments (PPEs) by all employees/workers shall be ensured.

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.

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 administration.

x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

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.

xii. The company shall earmark sufficient funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the 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 purpose.

xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.

xiv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by 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.

xv. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be 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.

xvi. 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.

xvii. 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.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 1989/2003/ 2008 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.

---

(Dr. P. B. Rastogi)  
Director

Copy to:-

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Hyderabad, A.P.
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhawan, A-III, Industrial Estate, Sanath Nagar, Hyderabad - A.P.
5. Adviser, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.