

F. No. J-11011/271/2015-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

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Dated: 16th March, 2017

To

The Director
(Mr. Jainam H Agrawal)
M/s Redd Mica Pvt. Ltd.
Survey No.: 1068, Lavad Sampa Road,
Village - Lavad, Taluka - Dehgam,
District - Gandhinagar - 382305
Gujarat

Sub: Resin Manufacturing Project (Phenol Formaldehyde Resin – 700 MT/Month, Melamine Formaldehyde Resin – 700 MT/Month and Urea Formaldehyde Resin – 500 MT/Month) Survey No. 1068, Village: Lavad, Taluka: Dahegam, District - Gandhinagar, Gujarat by M/s Redd Mica Pvt. Ltd. –Environmental Clearance – reg.

Ref: Online Proposal No. IA/GJ/IND2/59201/2015 dated 22nd September, 2016

Sir,

This has reference to your online proposal no. IA/GJ/IND2/59201/2015 dated 22nd September, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report along with public hearing report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Resin Manufacturing Project (Phenol Formaldehyde Resin – 700 MT/Month, Melamine Formaldehyde Resin – 700 MT/Month and Urea Formaldehyde Resin – 500 MT/Month) Survey No. 1068, Village: Lavad, Taluka: Dahegam, District: Gandhinagar, Gujarat by M/s Redd Mica Pvt. Ltd. As informed and as per the documents submitted by the Project Proponent (PP), the total plot area is 21853m² of which greenbelt will be developed in the area of 8234m² (37.6%). The cost of the project is ₹ 94 Lakh. Total budget allocation towards Environmental Management Facilities will be ₹ 31.55 lakhs and recurring cost will be 29.6 Lakhs per Annum. It is reported that no national parks, Biosphere Reserves, Tiger/Elephant Reserves, lies within 10 km distance. Meshwo River is flowing at a distance of 1.95 km from the project site. Reserved forest at Devkaran na Muwada village is at a distance of 8 Km from project site. The project proposes to manufacture following products in the unit:-

S. No.	Product	Total Quantity
1.	Phenol Formaldehyde Resin	700 MT/Month
2.	Melamine Formaldehyde Resin	700 MT/Month
3.	Urea Formaldehyde Resin	500 MT/Month
4.	Laminated Sheets	3,00,000 Sheets/Month

3. All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).

4. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 6th meeting held during 30th March– 2nd April 2016 and recommended Terms of References (TORs) for preparation of EIA-EMP report. The TOR has been issued by Ministry vide letter dated 11th May, 2016.

5. The project proposal was considered by the Expert Appraisal Committee (Industry -2) in its 16th meeting held during 8th - 9th December, 2016 and 17th meeting held during 26th - 29th December, 2016. The Project Proponent and the accredited consultant M/s T. R. Associates, Ahmedabad, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs) awarded in the 6th meeting of the EAC held during 30th March – 2nd April 2016.

6. Public Hearing for the proposed project has been conducted by the Gujarat Pollution Control Board 8th September, 2016. The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding environmental pollution due to proposed activity and employment. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

7. The PP has informed the EAC that the ambient air quality (AAQ) monitoring was carried out at 9 locations during December, 2015 to February, 2016. The baseline data indicates the ranges of concentrations as:- PM₁₀ (61µg/m³ to 83.3 µg/m³), PM_{2.5} (24 µg/m³ to 31.3 µg/m³), SO₂ (5.8 µg/m³ to 12.86 µg/m³) and NO_x (8.8 µg/m³ to 22.5 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental ground level concentrations (GLCs) after the proposed project would be 0.65 µg/m³, 0.25 µg/m³ and 1.5 µg/m³ with respect to PM, SO₂ and NO₂. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

8. Fresh water requirement of 49.9 m³/day will be sourced from borewell. Against this wastewater of 18.6 m³/day will be generated. The wastewater will be treated in ETP based on Photo Fenton process with RO system. The plant is based on zero liquid discharge and no effluent to be discharged outside the premises.

9. Coal/Briquettes fired boiler having 4TPH capacity and Thermic Fluid Heater having 15 lac Kcal/hr will be installed. Cyclone separator followed by Bag filter will be

provided as pollution control device and stack of 30 m height will be provided. Additional DG set of 250 KVA capacities will be used as a standby.

10. ETP sludge, Evaporation residue will be sent to TSDF Site. Used oil will be collected, stored, and used within premises/sold to registered recycler Discarded container and bags will be sold to authorized. Edge cutting waste will be sent to common incineration facility.

11. The EAC, in its 16th meeting held during 8th - 9th December, 2016, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions. The EAC, in its 17th meeting held during 26th - 29th December, 2016 has recommended for correction in the minutes of the 16th EAC meeting based on the request of the PP.

12. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- (i) Regular monitoring of Volatile Organic Compounds (VOCs) should be carried out.
- (ii) Coal/Briquettes fired boiler having 4TPH capacity and Thermic Fluid Heater having 15 lac Kcal/hr shall be installed. Cyclone separator followed by Bag filter shall be provided as pollution control device and stack of 30 m height will be provided.
- (iii) Fugitive emissions in the work zone environment, product, raw materials storage area etc. should be regularly monitored.
- (iv) Condenser should be used to control process emission.
- (v) Total fresh water requirement from ground water source should not exceed 49.9 m³/day and prior permission should be obtained from the CGWA/SGWA.
- (vi) The wastewater will be treated in ETP based on Photo Fenton process with RO system. The Domestic Effluent will be treated in septic tank followed by soak pit. No effluent will be discharged outside the plant premises and zero discharge will be followed.
- (vii) The company should 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 GPCB should be obtained for disposal of solid/hazardous waste in the TSDF. Measures should be taken for fire fighting facilities in case of emergency.
- (viii) Green belt over 8234 m² area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.



- (ix) Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- (x) All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 8th September, 2016 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.
- (xi) At least 2.5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. As committed, implementation of such program should be ensured for Lavad village in a time bound manner.
- (xii) Zero Liquid Discharge (ZLD) shall be ensured.
- (xiii) Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MoEF&CC, CPCB and SPCB.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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 stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. 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).
- vi. 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.
- vii. 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.
- 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 and risk mitigation measures 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 towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom 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&CC, the respective Zonal Office of CPCB and SPCB. 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 31st 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&CC 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://moef.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.

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


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

15. 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 Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


16.3.2017
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road - 3, Ravishankar Nagar, Bhopal - 462016
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector - 10A, Gandhinagar - 382 010, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.


16.3.2017
(Yogendra Pal Singh)
Scientist 'D'