

EXECUTIVE SUMMARY

FOR

M/s MODEPRO (INDIA) PVT LTD
Plot No. D-26 Kurkumbh MIDC
Pune, Maharashtra

Under Cat: B

EIA Consultant

M/s SADEKAR ENVIRO ENGINEERS PVT. LTD.

Accredited by QCI - NABET:- Sch. 1 (a) & 5 (f)

Lab. Recognized by MoEF, Govt. of India

NABL Accredited Environmental Laboratory

Certified by ISO 9001:2008

Certified by BS OHSAS 18001:2007

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SEP, 2014

1.INTRODUCTION

Proponent: Modepro is privately held ISO 9001:2008 certified company, which was established in 1993 primarily to manufacture pharmaceutical intermediates and fine chemicals. Modepro is a reliable partner to multinational companies engaged in the manufacture of Pharmaceuticals, Biotech, Agrochemicals & other specialty chemicals. They manufacture intermediates for several API's. They also manufacture fine chemicals & Speciality chemicals. They are among the largest manufacturer of Thiophene products in India and have an extensive range of different Thiophene products. Modepro has been audited by several European multinational companies for compliance to GMP for pharmaceutical intermediates based on the ICHQ7 standard. They are committed to the health and safety of their employees, the welfare of the community and environment protection. They play a proactive role in creating awareness, imparting training and minimizing pollution.

2. ABOUT THE PROJECT:

M/s. Modepro (India) Pvt Ltd has decided to set up a new API & intermediates unit at plot no D-26 Kurkumbh MIDC Pune. MIDC has allotted the plot of 20000 sq mtr. It is noted that the proposal involves manufacturing of Pharmaceutical bulk drugs & intermediates with production capacity of 93.2 MT/Annum. The project proponent has applied for the consent to establish for their proposed project (dtd. 8-3-2013 application number 004769) As per the provision of "EIA Notification No. S. O. 1533 (E)" dated 14.09.2006 & subsequent amended the proposed project of M/s. Modepro (India) Pvt Ltd. comes under schedule 5 (f) Category 'B'. Salient features of the Project is given in the below Table no.1

Table no.1

Sr. No	Activities	Status
1.	Location	M/s. Modepro (India) Pvt Ltd Plot No D-26 Kurkumbh MIDC, Pune, Maharashtra
2.	Type of the Project	New Proposed Project
3.	Product Type	APIs , Intermediate and fine chemicals.
4.	Site Coordinate	Latitude: 18 ⁰ 24' 3.69'' Longitude 74 ⁰ 31' 20.57'' Elevation above Mean Sea Level (MSL): 521m.
5.	Location Accessibility	Railway Station- Daund (11 km) away from proposed project site. National highway no. 9 (Pune –Solapur) at a distance of 1 Km

6.	Capacity	93.2 MT/Annum																								
7.	Total Area	20,000.00 sq. m.																								
8.	Green Area	7000.00 sq. m																								
9.	Built up area	9571.00 sq. m																								
10.	Open area	3429 sq.m																								
11.	Project cost	25 Crores																								
12.	Proposed EMP cost	3.16 Crore																								
13.	Fuel requirement	FO : 2 T/D Briquette: 5T/ day Diesel for D.G set in case of power failure 80 Ltrs/hr per D.G set. Source : Local Vendor																								
14.	Water Requirement	150 m ³ /day																								
15.	Source of Water	Kurkumbh MIDC																								
16.	Boiler Capacity	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Item</th> <th>Capacity</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td></td> <td>Boiler</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>Baggasse fired</td> <td>3.0 T/Hr.</td> <td>Baggasse</td> </tr> <tr> <td>2.</td> <td>F.O fired as stand by</td> <td>2.0 T/Hr</td> <td>F.O</td> </tr> <tr> <td>3.</td> <td>Thermopack</td> <td>6 L Kcal</td> <td>F.O.</td> </tr> <tr> <td>4.</td> <td>Thermopack</td> <td>4 L Kcal</td> <td>F.O.</td> </tr> </tbody> </table>	Sr. No.	Item	Capacity	Mode		Boiler			1.	Baggasse fired	3.0 T/Hr.	Baggasse	2.	F.O fired as stand by	2.0 T/Hr	F.O	3.	Thermopack	6 L Kcal	F.O.	4.	Thermopack	4 L Kcal	F.O.
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17.	Stack Height	30 mtrs for Boiler 12 mtrs for Scrubber 4 mtrs above the roof for D.G set																								
18.	Manpower	250 (Approx.)/day (Skilled and Unskilled labour)																								
19.	ETP	Full Fledged ETP of 100 CMD capacity followed by R.O & MEE for Zero Discharge																								
20.	Alternative Power Source	3 D.G. Sets each of capacity 500 KVA																								
21.	Hazardous Waste Management	Membership of Maharashtra Enviro Power Ltd (Ranjangaon)																								

22.	Sensitive Zone	Not Present in 10 Km radius of the Proposed Project
23.	Reserved Forest	Not Present in 10 Km radius of the Proposed Project
24.	Archaeological Monument	Not Present in 10 Km radius of the Proposed Project

3. Justification of Project

M/s. Modepro (India) Pvt Ltd has proposed API plant at MIDC Kurkumbh, it will help gain valuable foreign exchange by exporting the product in international market. Employment will be generated due to the proposed project thereby benefiting locals.

4. Baseline Environmental Status:

The study area is 10 km radial distance from centre of proposed plant site. All the monitoring has been completed in various locations within the study area during the period of March 2013 – May 2013. The findings of the baseline environmental status on land (topography, soil quality, land use pattern), meteorology (Temperature, Humidity, rainfall, wind speed), air (ambient air quality- PM₁₀, PM_{2.5}, SO₂, NO_x), noise level, ecological environment (flora and fauna), socio economic conditions, are presented in the report and interpreted with reference to environment standards.

4.1 Ambient Air Quality: It was observed that the monitored values of air pollutants PM₁₀, PM_{2.5}, SO₂ & NO_x are well within the allowable limit of Maharashtra pollution control board (MPCB) & CPCB.

4.2 Ambient Noise level: The ambient noise levels monitored at five different locations indicate that they were within the limits. The Leq were recorded at project site was the maximum i.e. 62.1dB during day and 45.1dB during night time.

4.3 Water Quality: Water samples were collected from four different locations including ground and surface water. The detailed report of the same is available in Chapter 4 of EIA report.

4.4 Soil Quality: Soil samples were collected from two different locations. The detailed report of the various parameters tested is available in Chapter 4 of EIA report.

4.5 Ecology: There are no ecologically sensitive receptors or endangered species within the 10 kms of the study area. The area is developed by M.I.D.C for industrial use, no clustered green belt is found in the vicinity, hence there will not be any kind of deforestation. No rare or endangered species of flora and fauna are present in the immediate vicinity as well as the study area. Thus, there will not be any adverse negative impact on flora and fauna.

4.6 Socio-economic: The project will provide positive impact on the economic development of the region in terms of employment opportunities. The area is developed by M.I.D.C for Industrial use. The above unit will be establishing in Kurkumbh M.I.D.C, along with other surrounded manufacturing units Therefore no population displacement is envisaged.

5. Prediction of Impacts and its Mitigation:

5.1 During Construction Process: Due to project activity two types of impact is envisaged, temporary impact during construction phase and permanent impact during operational phase. The permanent impact will be mitigated by providing appropriate pollution control devices. Based on the impact analysis, it is predicted that there will be minimal impact on environment during construction phase. During construction phase the likely impacts include dust due to construction, movement of vehicles and gases from engine exhaust, noise from movement of material personnel, etc. Which can be overcome by usage of dust suppression methods, water sprinklers etc.

5.2 During Operational Process:

Sr. No.	Environmental Parameters	Impact Attributes	Mitigation Measure
1.	Air Quality		
	Solvent	Emit volatile organic carbon	Recovered during process & Stored separately in room having vent facility
	Air emission from burning of Fuel	Air pollutant –SO ₂ , NO _x , PM ₁₀ and PM _{2.5}	Sufficient Height to stack provided & regular monitoring will be carried out to check emission that remain well within given MPCB Norms
	Process Emission	Emission generated during handling, transportation & actual process operations	Source of emission connected to scrubber with suitable scrubbing liquid to reduce emission from air.
	VOC emissions	Volatile organic substance emitted from solvent	VOC will be reduced by providing condenser with chilled water circulation provided with vent.
2.	Water Quality	Process water	Full fledge ETP followed by RO and MEE to maintain zero discharge. And maximum recycle and reuse of water
3.	Noise Quality	steam turbine generator, compressors and other rotating equipment	Use of Proper noise barriers/shields. Provision of soundproof enclosure and

			insulation. Proper maintenance of equipments. Development of Green belt.
4.	Solid Waste Management	Chemical Sludge from waste water treatment	Disposed to Maharashtra Enviro Power Ltd (Ranjangaon).
5.	Odour	Industrial Process, Storage and handling of raw material and waste material.	Raw materials will be kept in Closed room. The process will be carried out in closed reactors/ with suitable scrubbing system. Closed feed system for raw material charges.

6.Risk assessment plan

Risks likely to pose a risk to man, environment or property associated with various activities are addressed in this report. Such activities include transport, storage; handling and usage of fuels All equipment vulnerable to explosion or fire would be designed to relevant IS codes and statutory regulations.

Suitable fire protection system comprising hydrants and spray systems are provided for fire protection. Fire extinguishers shall be tested periodically and always be kept in operational mode. To calculate the risk involved in the process of the proposed project; ALOHA 5.2.2 is performed. The raw materials are divided into the different classes given by the U. N classification of goods. Also the severity is calculated of the particular hazardous event in the working area, so that the harmful activity can be identified and its occurrence can be reduced.

7.Disaster management plan

During the construction process, the impact will be minimal and temporary in nature. So the scope of DMP during the construction phase will be limited to specification & marking of safe area. Design, manufacture and construction of plant, machineries and buildings will be as per national and international and fire codes as applicable in specific cases and laid down by statutory authorities.

During operational phase surrounding population shall be made aware of safety precautions to be taken in case of any mishap in plant. On-site disaster management and off-site emergency plans, commands communication and controls will be established and maintained. Adequate provisions like emergency response, response organization, response plan, material safety data sheet, command and control, capabilities, transportation, medical facilities, mitigation measures, training, education, public awareness emergency plan review etc. to control any disaster situation will be made available.

Specification & marking of safe area- assembly point to gather in emergency. Minimum two numbers of gates to escape during disaster shall be provided. Provision of adequate access ways for movement of equipment and personnel shall be kept. Fuel oil storage shall be in protected and fenced area. The tank will be housed in a dyke wall. As per regulations of CCOE its testing & certification will be performed and all record will be kept properly.

8. CSR ACTIVITIES

The project proponent would employ local peoples as permanent employees of the company. As a part of CSR activity the appropriate support will be given to the near by school, the medical camps shall be organized for the local peoples and free medical help will be given to the local needy persons.

9. CONCLUSION

The proposed project is to be carried out within the area located in MIDC Kurkumbh which means that there will be no displacement of human population. The mitigative measures proposed are adequate, would meet the requirement of MPCB and would not cause any adverse impact on receiving water bodies. The proposed manufacturing activity does not create any major air pollution problem. The hazardous waste generated from ETP would be send to authorized Maharashtra Enviro Power Ltd (Ranjangaon).Area surrounding the project site does not have any sensitive area like forestland. Overall it can be said that the proposed project will not cause any adverse environmental impact if at all it will have positive socio-economic impacts around the project area by generating employment for the local people.