

FORMALDEHYDE MANUFACTURING UNIT WITH PRODUCTION CAPACITY 130 TPD AT VILLAGE GHESPUR, RADAUR, DISTRICT YAMUNA NAGAR, HARYANA BY M/S APCOLITE POLYMERS PVT. LTD.

EXECUTIVE SUMMARY

1. Introduction

M/s Apcolite Polymers Pvt. Ltd. has existing Formaldehyde manufacturing unit at Village- Ghespur, Radaur, District Yamuna Nagar, Haryana.

The unit established for production of 80 TPD Formaldehyde after obtaining CTE from HSPCB on 31.03.2010 and came in operation after obtaining Consent to Operate (CTO) dated 16.01.2012. In 2018, Project proponent has enhanced the capacity of the plant from 80 TPD to 130 TPD.

The said project/activity is covered under category "A" (located outside Notified Industrial Area) of item 5(f) "Synthetic Organic Chemicals" of the Schedule to the EIA Notification, 2006 and requires prior EC from Expert Appraisal Committee, MoEF&CC.

2. Basic Details of the Project

S.No.	Particulars	Details
1.	Nature and size of the Project	Formaldehyde Manufacturing Unit with production capacity 130 TPD at Village Ghespur, Radaur, District- Yamunanagar, Haryana by M/s Apcolite Polymers Pvt. Ltd.
2.	Location details	
	Village/Town/Plot No.	Ghespur
	District	Yamunanagar
	State	Haryana
3.	Area Details	
	Total Project Area	Total area available is 1.1 Hectare. Green belt will be developed in an area of 0.3817 Hectare (Approximately 34.7% of total land area).
4.	Cost Details	
	Project Cost	Rs. 2.25 Crores (Rs. 225 Lakhs)
	EMP Budget	Rs. 0.11 Crores (Rs. 11 Lakhs)
5.	Basic Requirements of the Project	
	Fresh Water (m ³ /day)	50 KLD Source: HWRA Application has been submitted to HWRA vide HWRA/IND/N/2021/41 dated 25.05.2021
	Power	320 KW Source: UHBVN (Uttar Haryana Bijli Vitran Nigam) DG sets as backup: 180 KVA 250 KVA
	Boiler	1 TPH Capacity HSD based Boiler

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Fuel	HSD
Manpower	9

3. Production Capacity

Product	Initial capacity in 2012	Enhanced capacity in 2021	Total capacity
Formaldehyde	80 TPD	50 TPD	130 TPD

4. Raw Material Detail

The major raw material is Methanol which comes in road through tankers from Kandla Port, Gujarat & stored in underground tanks.

Raw Material	Total Requirement	Source	Transport	Storage
Methanol	65 TPD	Import	Tank Trucks	U/G Tanks 4*75 KL

5. Project Benefits

- The plant will help in providing employment in priority to local people.
- There will be an increase in indirect employment and earnings of the small time shop owners like tea vendors, transporters, etc.
- The project proponent has planned to contribute in socio-economic development of the area.
- The easy availability of infrastructure, manpower, raw materials will reduce the production cost as well as demand supply gap.
- The development of greenbelt in and around the plant premises will improve on the aesthetics of the area. Moreover, it will help in reducing the noise levels within the plant boundary.

6. Mitigation Measures for Control of Pollution

6.1 Air Pollution Control Measures

- Online Stack Monitoring System as an air pollution control measures to control the emission of particulate matter, the flue gas emission will remain well within gaseous emission norms prescribed by the CPCB.
- To control the air emissions from D.G. Set, stack height of 6.0 m shall be provided.
- Green belt will be developed on 34.7% area of the total project area which will help in attenuating the pollutants emitted by the plant.

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6.2 Waste Water Treatment

There will be no waste water discharge from the plant. Zero Liquid Discharge (ZLD) concepts to be adopted. Domestic waste water after treatment (in septic tank) will be fully utilized with the facility for cleaning, flushing, water sprinkling and other non portable domestic purpose.

6.3 Noise Pollution Control

- Vibrating pads & acoustic enclosure will be provided to noise generating equipment to control noise level within norms.
- Latest technology and utmost care will be taken at the time of equipment/machinery installation.
- Lubrication of moving/rotating part or component of machineries will be done on regular basis.
- The operators working in the high-noise areas will be provided with ear-muffs or plugs.
- Acoustic enclosures and silencers will be provided to the equipment wherever necessary
- Proper green belt will be developed to reduce the noise level.
- Thus, it is envisaged that there will not be any adverse impacts of noise. The greenbelt developed within the premises will have significant beneficial impacts on reduction of noise within the periphery and outside the boundary.

6.4 Land Pollution Control

- The plant will implement zero liquid discharge concepts. The treated water will be recycled in the process. Therefore, there will not be any negative impact on soil.
- No toxic /waste water will be disposed directly on land.
- Other hazardous solid wastes will be sent to authorized recycler or vendor.
- It is envisaged that there will not be any major impacts on land environment during the operation phase.

6.5 Solid & Hazardous Waste Generation and Disposal

- Used Oil generated will be sold to authorized recycler.
- Solid waste from evaporator will be sent to TSDF.
- All the Solid & hazardous waste generated, will be collected, stored separately and disposed off as per the guidelines issued by CPCB & Haryana State Pollution Control Board.

7. Environmental Management Plan (EMP)

The total capital investment on environmental control measures is proposed to be about Rs 11 Lakhs out of the total project cost of Rs 225 Lakhs.

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S. No.	Particulars	Initial Cost (in Lakhs)	Recurring Cost (per year)
1.	Air Pollution Control- Wet Scrubber	2.50	0.6
2.	Single Stage Evaporator	3.00	0.7
3.	Occupational Health and safety	2.00	0.2
4.	Green Belt Development	2.00	0.3
5.	Rain Water Harvesting Pit	1.50	0.2
	Total	11 Lakh	2 Lakh

8. National Parks or Wild Life Sanctuary

There is no Wild Life Sanctuary or National Park within 10 km radius of the Project Site hence no NBWL Clearance required.

9. Demography & Socio-Economic Environment

- Improvement of infrastructure, transportation, health care and education facility.
- Direct and indirect employment will be generated like business, contract works and development work like roads, etc. and other welfare amenities such as medical facilities, conveyance, free education, drinking water supply etc.
- Skill based training to local employed people will be given by project proponent.
- The interaction and intermingling of all these people will improve the understanding of various cultures and will definitely improve and strengthen friendliness, brotherhood and unity among them.