**Formaldehyde Manufacturing Unit of 150 TPD At Village- Jathlana, Tehsil- Jagadhri, District- Yamunanagar, State- Haryana by M/s Pahwa Plastics Pvt. Ltd.**

# EXECUTIVE SUMMARY

## 1. Introduction

M/s Pahwa Plastics Pvt. Ltd. has an existing Formaldehyde manufacturing unit at Village- Jathlana, Tehsil- Jagadhri, District- Yamunanagar, State- Haryana.

The plant was setup with the consent to establish dated 02.06.2016 from the Haryana State Pollution Control Board (HSPCB). Subsequently, the unit has started operation after obtaining consent to operate dated 26.03.2018.

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 of 150 TPD at Village- Jathlana, Tehsil- Jagadhri, District- Yamunanagar, State- Haryana by M/s Pahwa Plastics Pvt. Ltd. |
| 2. | **Location details** | |
| | Village /Town/Plot No. | Jathlana |
| | District | Yamunanagar |
| | State | Haryana |
| 3. | **Area Details** | |
| | Total Project Area | Total plot area is 0.23 hectare. Green belt will be developed in an area of 0.08 Hectare (Approximately 34.78% of total land area). |
| 4. | **Cost Details** | |
| | Project Cost | Rs. 1.13 Crores (Rs. 113 Lakhs) |
| | EMP Budget | Rs. 0.0565 Crores (Rs. 5.65 Lakhs) |
| 5. | **Basic Requirements of the Project** | |
| | Fresh Water (m3/day) | 90 KLD<br>Source: HWRA |
| | Power | 200 KW<br>**Source:** UHBVN (Uttar Haryana Bijli Vitran Nigam)<br>**DG sets as backup:** 180 KVA and 250 KVA (existing) |
| | Boiler | 800 Kg/Hr |
| | Fuel | Wood Briquettes |
| | Manpower | 10 |

**Brief Summary**

## 3. Production Capacity

| Capacity | Mar 2018 to Mar 2021 | April-May 2021 | Total |
|---|---|---|---|
| Formaldehyde | 60 TPD | 150 TPD | 150 TPD |

## 4. Raw Material Detail

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

| Raw Material | Total Requirement | Source | Transport | Storage |
|---|---|---|---|---|
| Methanol | 75 TPD | Import | Tank Trucks | U/G Tanks 6*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 34.78% area of the total project area which will help in attenuating the pollutants emitted by the plant.

### 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 vender.
- 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 envisaged to be about Rs 0.056 Crores out of a total project cost of Rs 1.13 Crores.

| S. No. | Particulars | Initial Cost (in Lakhs) | Recurring Cost (per year) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 1. | Air Pollution Control Device | 2.45 | 0.5 |
| 2. | Occupational Health and Safety | 0.8 | 0.2 |
| 3. | Green Belt Development | 1.0 | 0.4 |
| 4. | Rain Water Harvesting Pit | 1.4 | 0.3 |
| | **Total** | **5.65 Lakh (0.056 Crores)** | **1.4 Lakh ( 0.014 Crores)** |

**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.