EXCECUTIVE SUMMARY

1.0 INTRODUCTION

M/s Guruji Overseas has existing Formaldehyde manufacturing unit at Village Jathlana Tehsil- Radaur, Jagadhri, District- Yamuna Nagar, State- Haryana. The plant was setup with the consent to establish dated 30.10.2018 from the Haryana State Pollution Control Board (HSPCB). The plant as never came into operation since it has not obtained CTO yet.

2.0 BASIC DETAILS OF THE PROJECT

Table No. 1.0: Project details

S.No.	Particulars	Details
1.	Nature and size of the Project	Capacity Expansion of Formaldehyde Manufacturing Unit in existing facility from 120 TPD to 200 TPD at Village Jathlana, HB No. 04, Tehsil- Radaur, Jagadhri, District- Yamuna Nagar, Haryana by **M/s Guruji Overseas**
2.	Location details	
	Village /Town/Plot No.	Jathlana
	District	Yamuna Nagar
	State	Haryana
	Latitude and Longitude	Latitude: 30°02'10.93"N Longitude: 77°15'1.12"E Elevation: 266 amsl
	Toposheet No.	H43L4, H43L8, H43R1, H43R5 of SOI
3.	**Area Details**	
	Total Project Area	Total area available is 0.9274 Hectare. No additional land is required for proposed expansion. Green belt will be developed in an area of 0.3134 Hectare (Approximately 33.79% of total land area). **Land Document is enclosed as Annexure-2** **CLU Certificate is enclosed as Annexure-3** **NOC for Property Access is enclosed as Annexure-4** **Property Deed is enclosed as Annexure-5** **Forest Land diversion is enclosed as Annexure-7**
4.	**Environmental Setting Details (with approximate aerial distance and direction from the project site)**	
	Nearest major settlement	Village Jathlana is at a distance of 1.5 Kms (approx.) in South direction. Marupur Garibdas at a distance of 700 m SE direction
	Nearest highway	SH-6 at 6.18 km distance from the project site in West direction NH-73 at 9.44 km distance from the project site in North

		direction
	Nearest Railway Station	Yamuna Nagar Railway Station at a distance of Approx. 10.94 kms in SW direction.
	Nearest Airport	Chandigarh Airport is at a distance of 83.42 kms in North direction.
	National Parks/ Wild Life Sanctuaries/ Biosphere Reserves/ RF and PF within 10km radius	No National Park/Wildlife Sanctuary within 10 km radius of the Project Site. Kalanaur RF at a distance of approx. 9 km in NE Direction.
	Nearest Water Bodies	Yamuna River at approx. 3.78 km in East Direction Augmentation Canal at approx. 1.90 Km in NW Direction
	Interstate Boundary	Haryana-Uttar Pradesh interstate boundary at a distance of 4.38 km to SE direction
	Nearest College	Global Research Institute of Management & Technology at a distance of 7.77 km in SW direction. Computer Science & Information Technology Block at 8.45 km in West direction.
	Nearest School	Khajmi School at a distance of 1.98 km in north direction.
	Defence Installations	Nil
	Seismic Zone	Zone IV
5.	**Cost Details**	
	Project Cost	The capital cost for the Existing project is Rs. 6 Crores which include land, building, plant & machinery.
	EMP Cost	Capital: 43.43 Lakhs Recurring: 6.31 Lakhs/year
	Cost of OH&S	15.0 Lakhs
6.	**Basic Requirements of the Project**	
	Fresh Water (m3/day)	Total water requirement is 235KLD for which HWRA application is yet to be submitted.
	Power	Maximum power requirement for the plant is 8000 kWH / day. **Source:** UHBVN (Uttar Haryana Bijli Vitran Nigam) **DG sets as backup:** 2x320 KVA (Total 640 KVA) is already installed
	Boiler	**Existing** | **Proposed expansion** | **Total** | **Fuel**

		2 boiler of 600 Kg/Hr each Capacity	-	2 boiler of 600 Kg/Hr Capacity	HSD Fired
	Fuel	HSD			
	Manpower	About 20 persons will be employed to the industry. Preference will be given to local public.			

3.0 PRODUCTION CAPACITY

Product	Existing Capacity	Proposed Expansion Capacity	Total Capacity after expansion
Formaldehyde	120 TPD	80 TPD	200 TPD

4.0 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
Methanol	90 TPD

5.0 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.

6.0 MITIGATION MEASURES FOR CONTROL OF POLLUTION

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 33.79% area of the total project area which will help in attenuating the pollutants emitted by the plant.

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.

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.

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.

Greenbelt Development Plan

Green belt will be developed over 33.79% area of the total plant area out of the 0.9274 ha of the plant area i.e., 0.3134 Ha of the total land. This greenbelt will serve as a buffer between the peripheries and the industry, there by controlling the air emissions and noise levels. PP has already developed green belt for existing unit. Considering 2500 trees/ha of land; total 784 trees to be planted within and around

the project site. A budget of approx. Rs. 3.93 Lakh has been kept for Green belt development. Total 1.56 Lakhs/year has been also estimated for recurring cost.

7.0 ENVIRONMENT MANAGMNET PLAN

The total capital investment on environmental control measures is envisaged to be about Rs 43.43 Lakhs out of a total project cost of Rs. 6.0 Crore. Details are given in **Table 2.**

Table 2.0: EMP Cost Details

S.No.	Particulars	Initial Cost (in Lakhs)	Recurring Cost (Lakhs)
1	Air Pollution Management	10.0	1.0
2	Water and Waste Water Management	2.0	0.50
3	Fire Safety	10.0	0.5
4	Greenbelt Development	3.93	1.56
5	Environmental Monitoring	3.50	0.75
6	Rain water Harvesting	3.0	0.5
7	Occupational Health and Safety	5.0	0.5
8	Community development under CER activities	6.0	1.0
	Total	**43.43**	**6.31 Lakhs/yr**

9.0 CONCLUSION

M/s Guruji Overseas has implement all the pollution control measures to protect the surrounding environment. The project can definitely improve the regional, state and national economy. Industrial growth is an indication of socio-economic development. The implementation of this project will definitely improve the physical and social infrastructure of the surrounding area.