

M/s Surya Organics

Formaldehyde Manufacturing Unit of 200 TPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur,
Tehsil: Shahzadpur, Dist.: Ambala – Haryana.

PRE FEASIBILITY REPORT

PRE - FEASIBILITY REPORT

FOR

**Formaldehyde Manufacturing Unit of
200 TPD**

BY M/s SURYA ORGANICS

AT

**Khasra no. 2//23, 8//3, 8//7, 8//8/1
Village: Sherpur, Tehsil: Shahzadpur, Dist.:
Ambala – Haryana**

M/s Surya Organics

Formaldehyde Manufacturing Unit of 200 TPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur,
Tehsil: Shahzadpur, Dist.: Ambala – Haryana.

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1. EXECUTIVE SUMMARY

1.1 PROJECT

M/s Surya Organics is a partnership firm started with the objective to get involved in the business of manufacturing & trading in organic chemicals viz. Formaldehyde.

M/s Surya Organics is proposing to setup a manufacturing Formaldehyde unit with the production capacity of 200 TPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Sherpur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana.

1.2 LOCATION

The proposed project shall be located in total Area: 10,103.5 sq.yd. (8447.82 Sq.m.) at Khasra no. 2//23, 8//3, 8//7, 8//8/1, Village: Sherpur, Tehsil: Shahzadpur, Dist.: Ambala– Haryana.

The geographical location of the proposed plant lies from Latitude- 30°21'55.87"N
Longitude- 77°01'09.56"E

It is connected with the adjacent states and other parts of India as well, which facilitates transportation of goods, both inwards and outwards. This further facilitates the marketing of Formaldehyde all over India; Including Haryana & Punjab are nearby industrial areas having PLYWOOD and SUN MICA industries.

1.3 NEED FOR THE PROJECT

The Formaldehyde is used by PLYWOOD and SUN MICA industries, who make adhesives like Urea Formaldehyde, Phenol Formaldehyde, Melamine Formaldehyde.

Plywood Boards and sun mica sheets market is growing very fast in India. The market is expected to continue to grow at the minimum rate of **10 to 15 % per year**.

During the last decade, India has built a very strong position as sun mica sheets and ply wood boards for domestic consumption and for exports to South Asian countries & Middle East.

Formaldehyde is used by PLYWOOD and SUN MICA industries, who make adhesives like Urea Formaldehyde and Phenol Formaldehyde products. So considering the above, the M/s Surya Organics is proposing to setup a manufacturing unit of Formaldehyde with the capacity of production of 200 TPD.

1.4 PROJECT PROPONENT

The present proposal is for the production of Formaldehyde with a manufacturing capacity of 200 TPD which is being promoted by M/s Surya Organics.

1.5 PROCESS/TECHNOLOGY

The commercial production of Formaldehyde is manufactured from oxidation-dehydrogenation using a silver catalyst involving either the complete or incomplete conversion of methanol.

Methanol is vaporized and mixed with air and steam and it is then passed over a thin bed

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of silver catalyst at 650°C. Formaldehyde is formed by the dehydrogenation of methanol.

The heat required for the endothermic reaction is obtained by burning hydrogen content in the off gasses, produced from the dehydrogenation reaction.

1.6 MANPOWER REQUIREMENT

The manpower requirement during operation phase will be approx. 20 nos. and preference shall be given to locals based on their education and skills. Some temporary man power will be hired from local areas during construction phase.

1.7 WATER REQUIREMENT

Total water requirement for project will be 150 KLD. The water requirement will be met through groundwater. Permission for the same is yet to be obtained from CGWA.

Purpose	Water Consumption (KLD)
Industrial	147
Domestic	1.0
Green Area	2.0
Total	150

1.8 POWER REQUIREMENT

Maximum power requirement for the plant will be 200 kva. The power will be supplied by Haryana state power department - Uttar Haryana Bijli Vitran Nigam Ltd. (UHBVNL).

2 D.G Sets each of capacity 180 KVA and 250 KVA will be installed as the backup power supply and 1 Boiler of capacity 800 Kg is also proposed.

1.9 RAW MATERIAL REQUIREMENT

The only raw material is Methanol- 460 kg/tonnes which will be imported & will be stored in Underground CS (Carbon Steel) tanks.

2.0 CAPITAL COST OF THE PROJECT

Proposed Project Cost – Rs. 7.0 Crores

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2. INTRODUCTION OF THE PROJECT / BACKGROUND INFORMATION

2.1 IDENTIFICATION OF PROJECT & PROJECT PROPONENT

Project

M/s Surya Organics is a partnership firm started with the objective to get involved in the business of manufacturing & trading in organic chemicals viz. Formaldehyde.

M/s Surya Organics is proposing to setup a manufacturing unit of Formaldehyde with the capacity of production of 200 TPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana.

Project Proponent

The present proposal is for the production of Formaldehyde with a manufacturing capacity of 200 TPD which is being promoted by M/s Surya Organics.

Name of applicant: Karan Jindal

Designation: Partner

Correspondence Address: Surya Automobiles, Derabass-Barwalaroad,

Derabassi – 140507

Contact no.: 09988210243

Email: suryaorganics21@gmail.com

2.2 Process / Technology

(i) Brief description of nature of project:

M/s Surya Organics is proposing to setup a manufacturing unit of Formaldehyde with the production capacity of 200 TPD. The commercial production of Formaldehyde will be manufactured from oxidation-dehydrogenation using a silver catalyst involving the complete conversion of methanol.

As per EIA Notification dated 14th September, 2006, as amended on 25 June 2014, the project falls under activity '5(f)' and it is Category 'A' Project as located outside the Notified Industrial Area. Hence, the project will be appraised by EAC in MoEF&CC.

(ii) Need for the Project and its importance to the country and or region.

The Plywood boards and Sunmica sheets market is growing very fast in India. The market is expected to continue to grow at the minimum rate of 10 to 15% per year.

During the last decade India has built a very strong position as SUN MICA sheets and PLYWOOD boards for domestic consumption and for Exports to South Asian countries & Middle East.

Formaldehyde is used by PLYWOOD and SUNMICA industries, which make adhesives like Urea Formaldehyde and Phenol Formaldehyde products. So considering the above, the **M/s Surya**

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Organics is proposing to setup a manufacturing unit of Formaldehyde with the capacity of production of 200 TPD.

(iii) Supply - Demand Gap

The project is envisaged to meet the demand supply gap in the domestic market, as the gap is created due to increase in demand of Formaldehyde for meeting increased demand of PLYWOOD and SUNMICA industries.

(iv) Indigenous Production

Company is making its Raw Material/Packing material procurement from the domestic market in big quantities.

(v) Domestic Market

The PLYWOOD Boards and SUNMICA sheets market is growing very fast in India. The market is expected to continue to grow at the minimum rate of 10 to 15% per year which makes the sufficient possibility to fulfill the domestic market demand. The Domestic supplies of the company will indirectly contribute to the growth of our nation.

(vi) Employment Generation (Direct and indirect)

The manpower requirement during operation phase will be approx. 20 and preference shall be given to locals based on their education and skills. Some temporary man power will be hired from local areas during construction phase.

Indirect & direct employment is also likely to be generated with the proposed project which will be economically beneficial for the development.

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PRE FEASIBILITY REPORT**3. PROJECT DESCRIPTION****3.1 Type of Project including interlinked and interdependent projects, if any**

Formaldehyde is a main constituent for manufacturing valuable chemical like melamine, urea and phenolic resins. It also acts as biocides, preservatives and used in many household & common products including medicines, health & beauty aids. It is available in 37% aqueous solution. It is identified by some of its properties like molecular weight about 30.3, boiling point -118°C, melting point at -19°C and density of 0.815 at -20°C.

The proposed integrated facility will produce 200 MTPD of Formaldehyde.

The project will be equipped with fully diversified processing facilities. The number of working days for the proposed project will be 330 days. The Plant will be operated 7 days in a week along with effective utilization of the resources.

3.2 Location (Map showing general location, specific location, and project Boundary and project site layout) with coordinates.

The proposed project shall be located in 10103.5 Sq.yrd. (8447.82 Sq.m.) and is situated at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana.

The geographical location of the proposed plant lies from Latitude- 30°21'55.87"N Longitude- 77°01'09.56"E

Gaganhari Protected Forest is present at 8.90 km in SE direction and Begna River is located in 2.03 km in East direction from the project site.

The site is about 1.62 km from NH- 73 km towards West direction and NH- 72 in 9.42 km in North direction. The nearest settlement is Shrepur at a distance of 0.5 km in South direction. The nearest railway station is Kesri at a distance of 13.68 km towards SW direction. Patiala airport is at a distance of 17.14 km in SW direction.

Project site falls in survey of India Toposheet no. H43K15 & H43L3

Google Map, Toposheet map, Location Map and layout of the Plant is given as Figure 1, Figure 2, Figure 3 and Figure 4.

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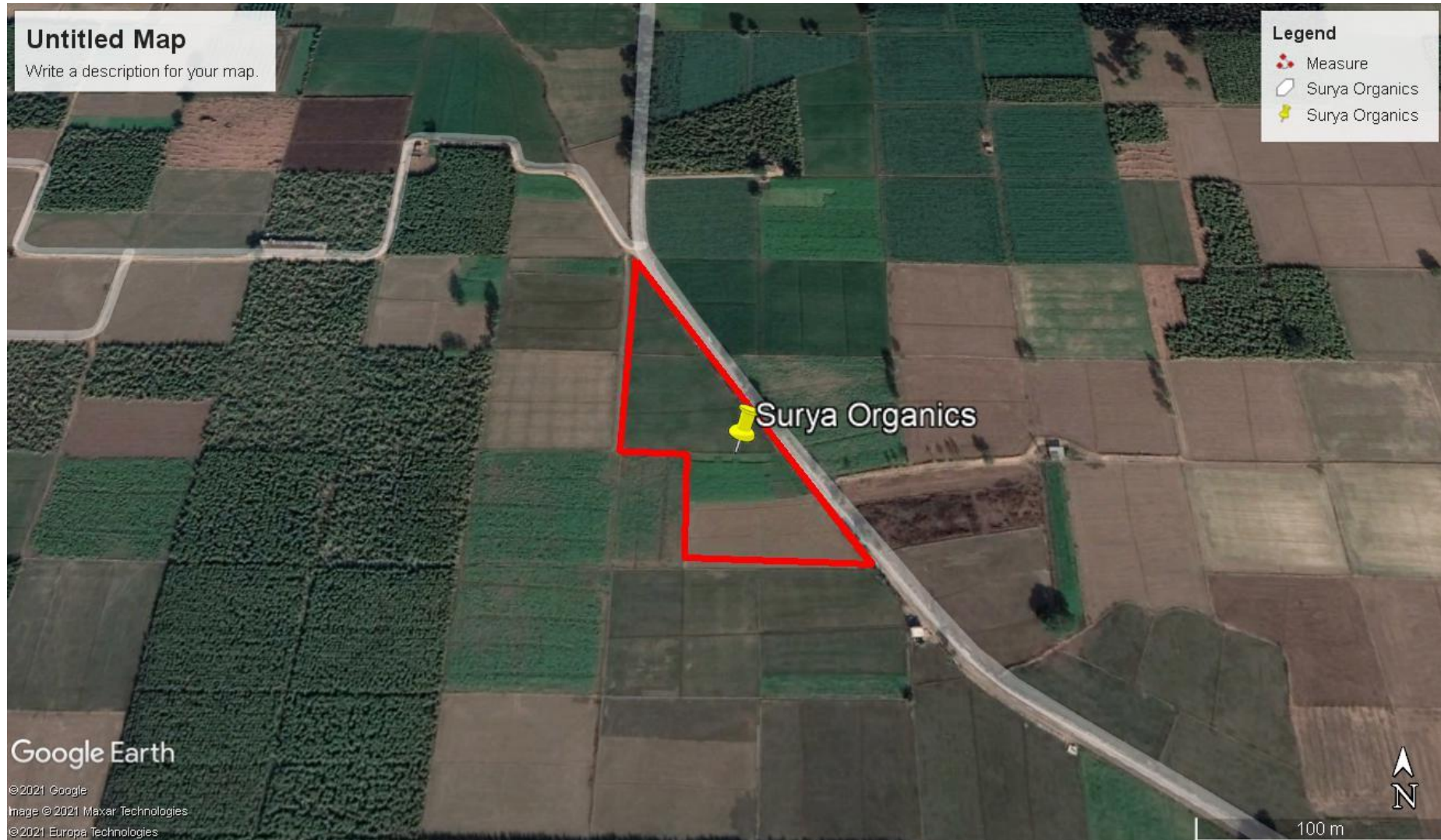


Figure 1: Google Image of the Project Site

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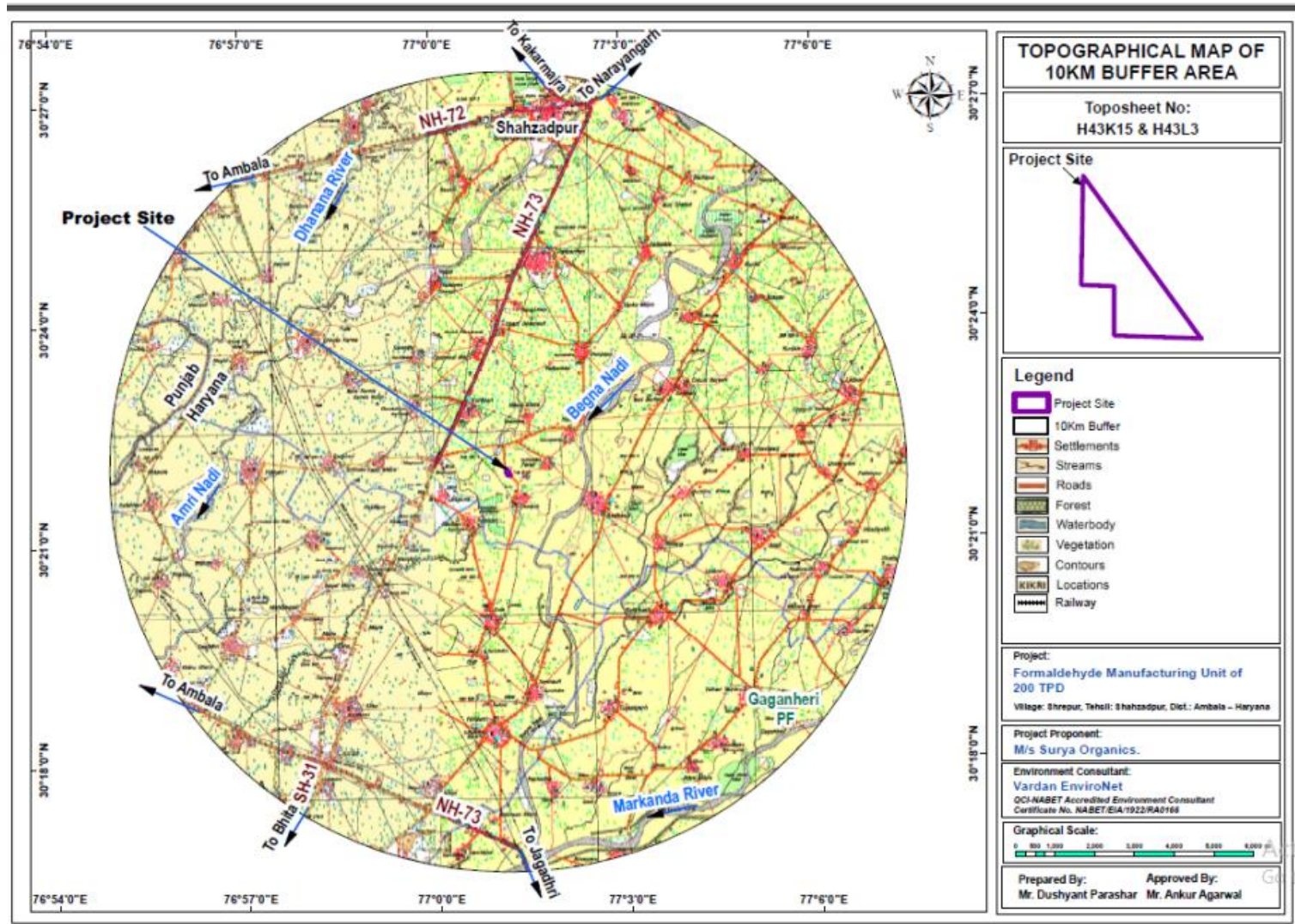


Figure 2: Toposheet Map of the Study Area

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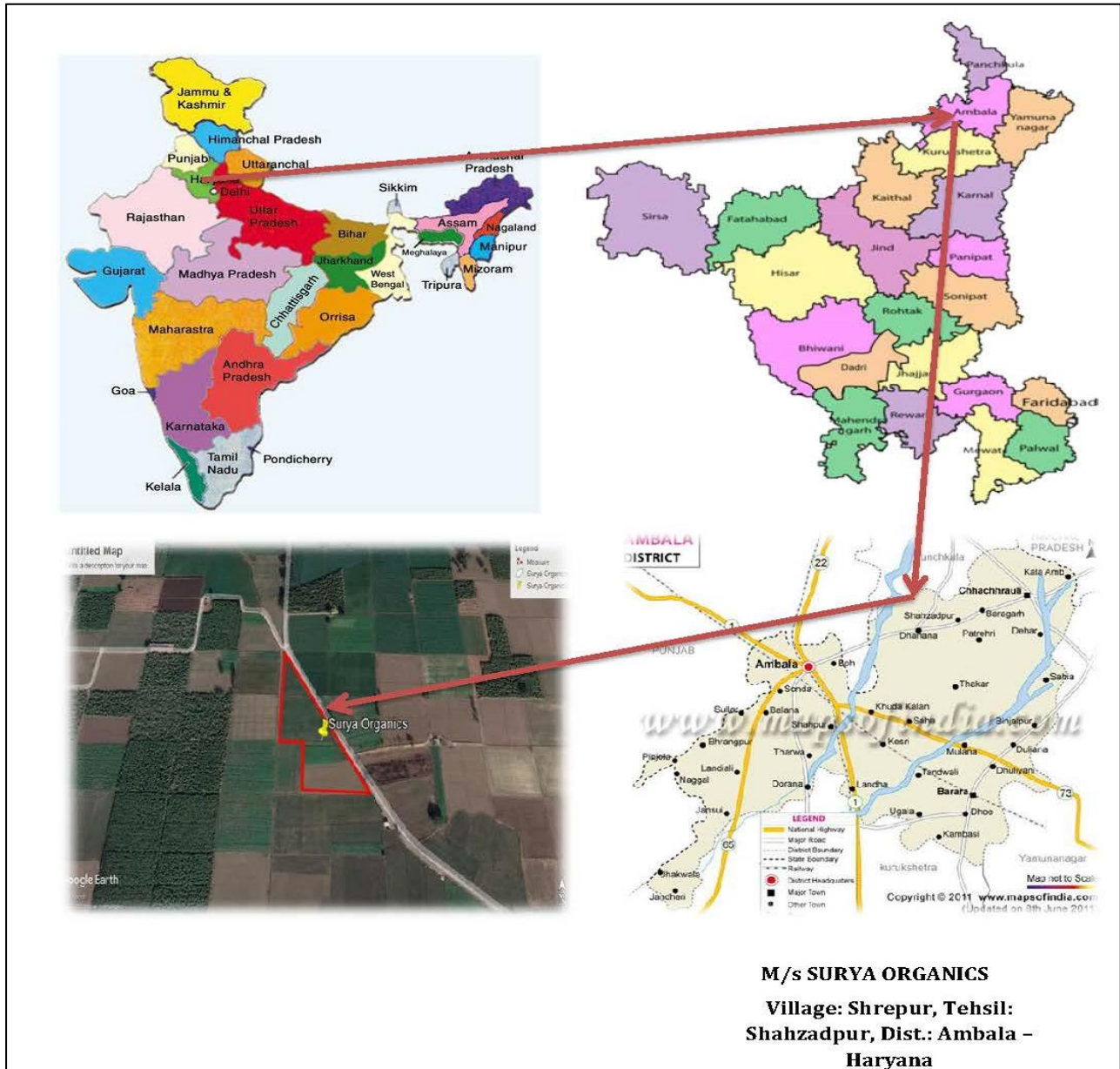


Figure 3: Location Map of the Project

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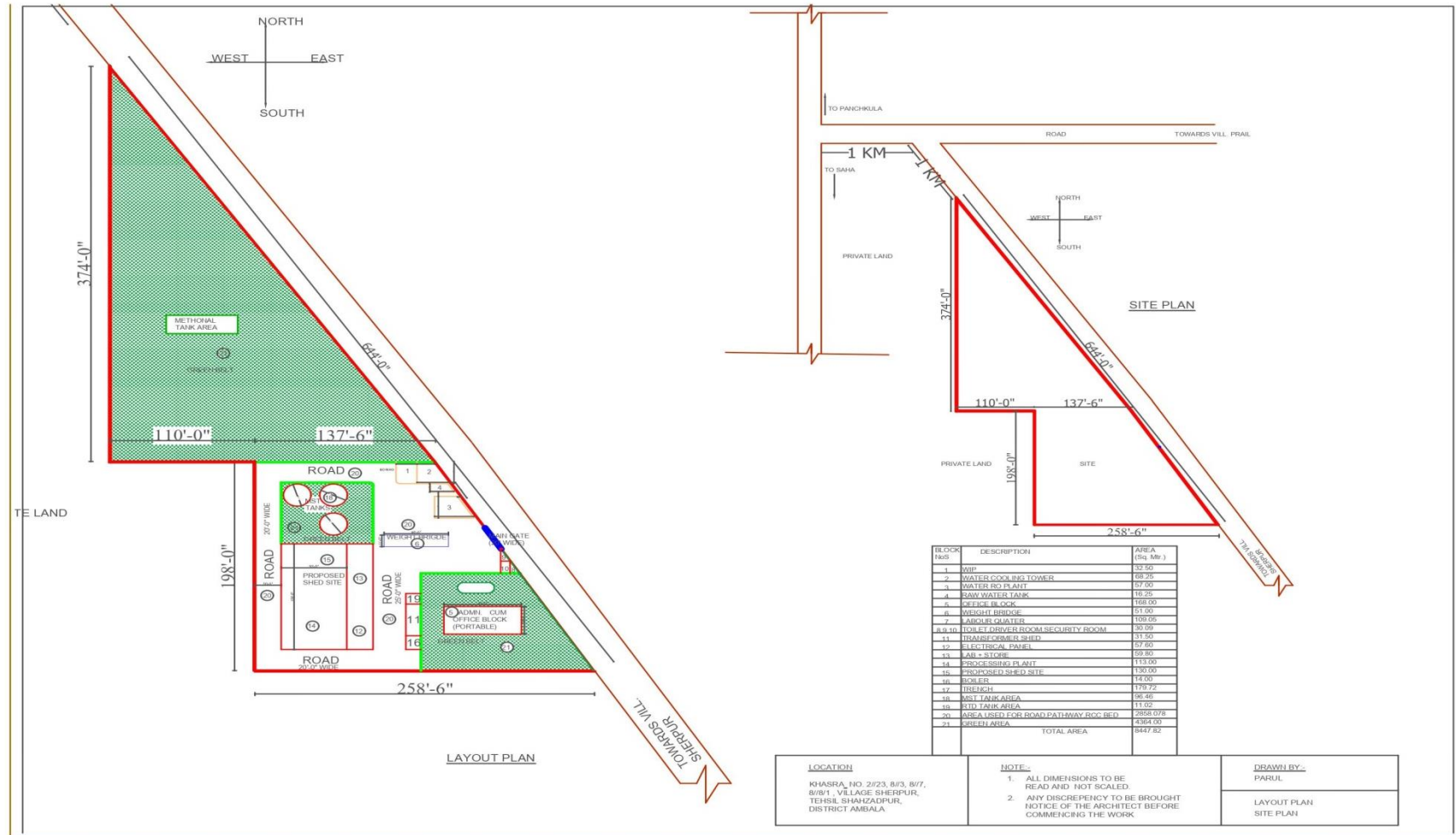


Figure 4: Plant Layout

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3.3 Details of alternate sites Considered and the basis of selecting the proposed site, particularly the environment consideration gone into should be highlighted.

Before finalizing the proposed site for establishment of the proposed manufacturing plant at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana. 2 nos. of alternative sites were considered. Feasibility of site for the proposed project was examined on various parameters road and water & power availability, distance from densely populated area, protected forests, sensitive locations, Availability of Logistic support, Manpower, etc.

Two Alternate Sites in and around District Ambala has also been considered are as follows:

Sl. No.	Particulars	Proposed Site	Alternate Site-1	Alternate Site-2
1.	Location	Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana.	Village: Badhauri District: Amabala State: Haryana	Village: Berpura District: Amabala State: Haryana
2.	Geographical Coordinates	Latitude- 30°21'55.87"N Longitude- 77°01'09.56"E	30°21'33.21"N 77°02'36.78"E	30°23'44.97"N 76° 58'05.50"E
3.	Type of land	Application for setting up Formaldehyde manufacturing unit is submitted to District Town Planner	Site is under cultivation	Site is under cultivation
4.	Road Connectivity	NH-73 at the distance 1.62 km	NH- 73 at a distance of 3.94 km	NH-73 at a distance of 4.28 km
5.	Airport Connectivity	Patiala Airport distance of 17.14 km	Patiala Airport distance of 18.43 km	Patiala Airport distance of 13.74 km
6.	Nearest Habitation	Shrepur	Badhauri	Berpura
7.	River	Begna River- 1.68 km	Begna River- 0.3 km	Amri River- 0.25 km

- **Alternate Site-1:** This site was not considered by project proponent as it is cultivated land and near to Amri River, if the proposed project will installed here it may affect the water quality.
- **Alternate Site-2:** This land is under cultivation and near to Amri River, if the proposed project will installed here it may affect the water quality.

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- **Proposed Site:** This site is selected establishment of the project as it is near to highway and economically viable.

3.4 Size and Magnitude of Operation

M/s Surya Organics is proposing to setup a manufacturing unit of Formaldehyde with the production capacity of 200 MTPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana. The estimated project cost is about 7 Crores.

3.5 Project description with process details: (a schematic diagram/flowchart layout, components of the project)

Formaldehyde Manufacturing Technologies & Process:

Formaldehyde is the oxidation/dehydrogenation product of methanol with oxygen in the presence of Silver catalyst.

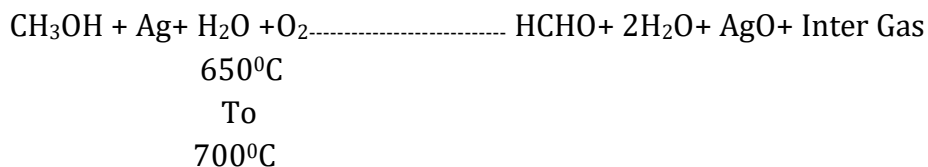
- Raw materials required are:
- Methanol (CH₃OH)
- Silver (Ag)
- Water (source: underground bore well)
- Oxygen (O₂ from atmosphere)

Finished Product : Formaldehyde (HCHO)

Plan t& Machinery (Main): Evaporator, Mixing Tank, Super Heater, Reactor, Condenser, Absorption column, heat exchanger, pumps, pipe line

Process:

Methanol is converted into formaldehyde by oxidation process with Oxygen, silver & water at a temperature of 650⁰ C to 700⁰ C. It is an exothermic reaction.



Step I: Methanol is pumped from the underground storage tanks to a mixing tank where water is added to dilute the solution.

Step II: Dilute Methanol solution I is then taken into evaporator where it is evaporated to proper stage at 70⁰ C. Air also passed through the blower and applied steam. The mixture of vapors (AIR + METHANOL + WATER) is passed to the reactor through silver bed where methanol is converted into formaldehyde gas at 670⁰C (approx.)

Step III: The temperature of formaldehyde gas is taken down upto 110⁰ C through

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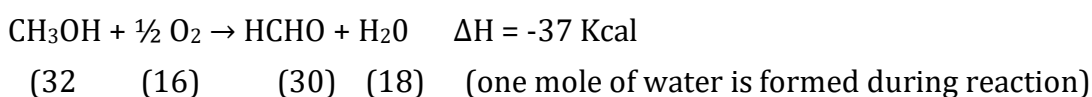
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condensers and then passed to absorption column to absorb the gases in water. We circular the formaldehyde solution till desired quality of formaldehyde liquid is obtained, and then the product is transferred to the storage tank. And after testing the quality, we dispatch the goods. This is a continuous chemical process.

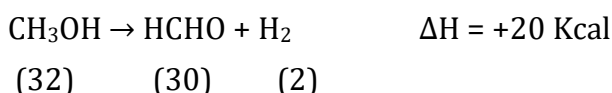
Normally, the ratio of methanol and formaldehyde is approx 1:2, we get 2 kg of formaldehyde by 1 kg of methanol, if the quantity of raw material & product is OK. It depends on temperature, plant pressure and atmosphere climate also. On the demand of buyer, we produce the formaldehyde of different grade also, which is produced as per requirement of the party. The ratio of methanol and formaldehyde, sp. varies depends on the specification desired by the party.

Catalytic oxidation process is an optimized production method. Let us discuss about the technology in this process. It is a simple process as per the stoichiometric reaction steps along with material balance shown below.

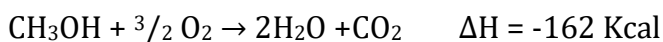
1. Oxidation of methanol with oxygen present in air



2. Pyrolysis endothermic reaction

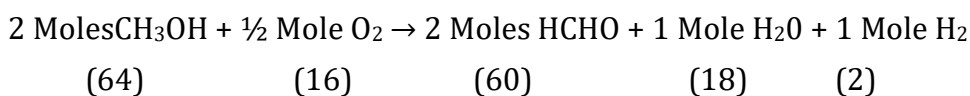


3. Side reaction – complete combustion producing heat energy



Material Balance:

Material Balance for 200 ton capacity of Formaldehyde – 37%



Concentration of HCHO formed during reaction

78 grams of HCHO solution formed is having 18 grams of water

Process Waste:

No solid waste will be generated in the process; any kitchen solid waste can be binned and disposed. With regards to domestic waste water, since the quantity is so small that a septic tank shall be sufficient and the waste water generated will be used for the greenbelt purpose after treatment. Hence, the project will maintain Zero Liquid Discharge at project site.

Hazardous Waste

All the hazardous substances in the proposed project will be sold to the authorized recyclers.

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Formaldehyde will be stored in containers in a cool, well-ventilated area. Container will be tightly closed and sealed.

Air Emissions and Control:

All the exhaust gas emissions will be channelized all through the process and will be reused for various purposes like heating & remained chemical utilization. At the end, the remaining gas will be exhausted through a chimney. Emissions from production processes will contain exhaust gasses which shall contain only Nitrogen, Hydrogen, Carbon dioxide, Carbon Monoxide, VOC and traces of Formaldehyde and Methanol.

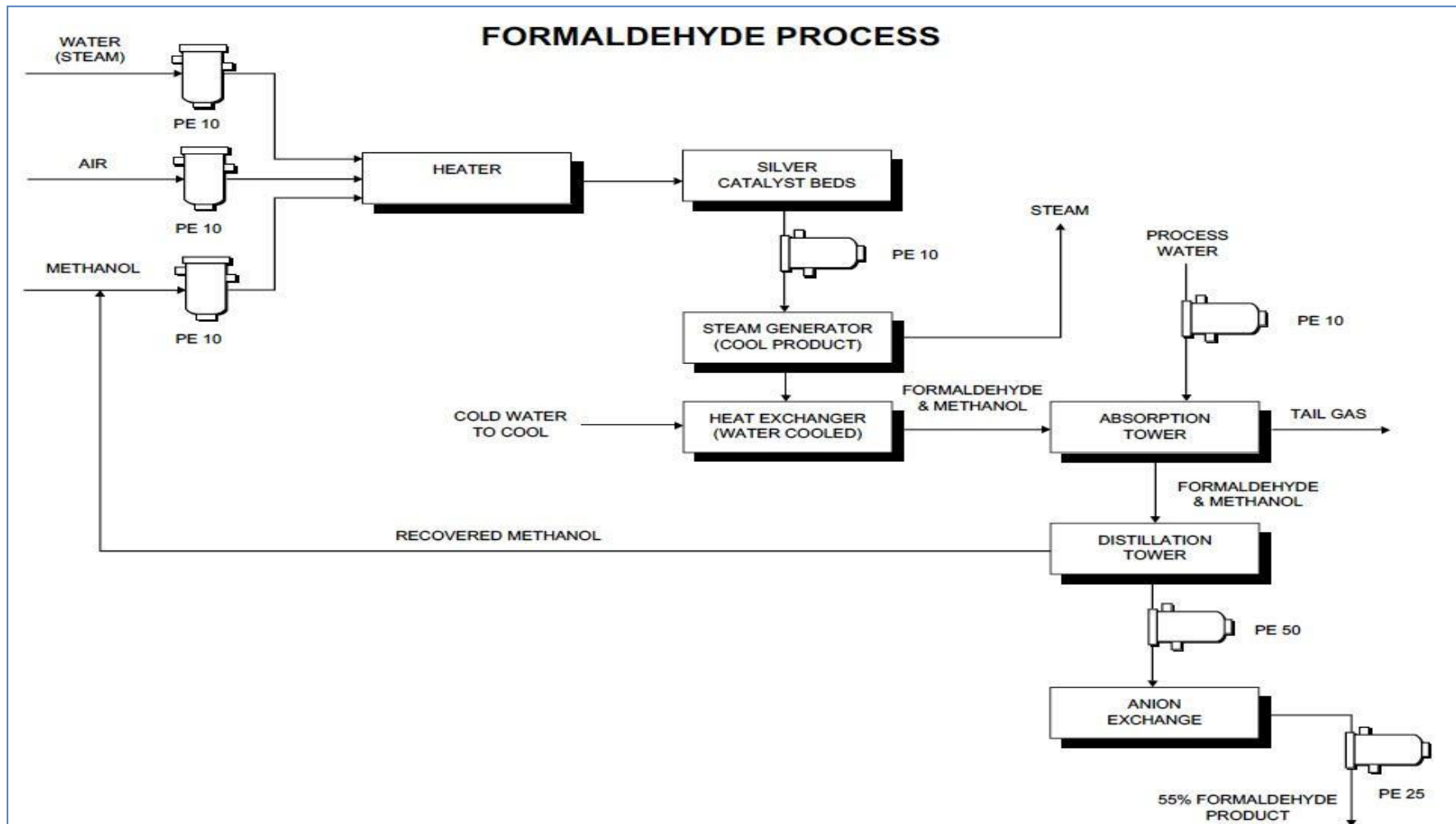
To control the air emissions from D.G. Set, stack height as per CPCB guidelines shall be provided above the roof top level of the D.G. Set. Boiler (800 kg/hr) shall be installed for heating load of the plant; rice husk will be used as a fuel which will be sold to brick manufacturer. Stack height of 30 m will be maintained at boiler.

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Figure 5: Process Flow Chart



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PRE FEASIBILITY REPORT**3.6 Raw material required along with estimated quantity, likely source, marketing area of final products, mode of transport of raw material and Finished products.**

Raw Material requirement for production of proposed quantity of Formaldehyde:

S.no.	Raw Material	Quantity
1.	Methanol	460 kg/tonnes

3.7 Resources optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined.

M/s Surya Organics will optimize utilization of resources including Land, Fuel, Water and Electricity.

3.8 Availability of Water its source, Energy/Power requirement and source**(i) Water Requirement**

Total water requirement for project will be 150 KLD. The water requirement will be met through groundwater. Permission for the same is yet to be obtained.

(ii) Power Requirement

Maximum power requirement for the plant will be 200 KVA. The power will be supplied by Haryana state power department - Uttar Haryana Bijli Vitran Nigam Ltd. (UHBVNL).. 2 D.G Sets each of capacity 180 KVA and 250 KVA will be proposed as the backup power supply.

3.9 Quantity of waste to be generated (Liquid and solid) and scheme for their management.**Process waste**

There will be no solid waste generated in the process, any kitchen solid waste can be binned and disposed. With regards to domestic waste water, since the quantity is so small that a septic tank shall be sufficient and the waste water generated will be used for the Greenbelt purpose after treatment. It is a Zero Liquid Discharge Plant.

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4. SITE ANALYSIS

4.1 Connectivity

The site is about 1.62 km from NH 73 which is in West direction. The nearest settlement is Sherpur at a distance of 0.5 km in South direction. The nearest railway station is Kesri at a distance of 13.68 km which is in SW direction. Patiala airport is at a distance of 17.14 km in South West direction.

4.2 Land form, Land Use, Land Ownership

Total area of the proposed project is 10103.5 Sq.yard (8447.82 Sq.m.). The land is under possession of Surya Organics since 21.09.2021.

4.3 Topography

The site has been observed to be almost flat level in topography.

4.4 Proposed Land use Pattern

The plot area 10103.5 Sq.yard. (8447.82 Sq.m.) is under the possession of Surya Organics since 21.09.2021. The land document is attached as an **Annexure I**. The application for permission of setting up an industry has been submitted to district town planner. Copy of receipt is attached as an **Annexure II**. No forest land is involved in the area identified for setting up of the proposed project for manufacturing of Formaldehyde by M/s Surya Organics.

4.5 Proposed Infrastructure

The proposed project is a greenfield project for the establishment of formaldehyde manufacturing unit of capacity 200 TPD in total the plot area 10103.5 Sq.yard (8447.82 Sq.m.).

4.6 Soil Classification

The district area is occupied by Indo-Gangetic alluvium & flat terrain. A small area in extreme northeastern side of the district is occupied by dissected rolling plains of Siwalik range. The area slopes towards southwest with an average gradient of 1.5m/km. The soils are non-calcareous and sandy loam on the surface, and loam to clayey loam at depth, classified as Udipsamments/Udorthents. The district is occupied by Indo-Gangetic alluvial plain of Quaternary age. There are thick alluvial deposits in the district. In south west and western parts of the district, sediments are fine grained in nature and comprises of sand, clay, silt and kankar with occasional gravel. The clays are usually brown to yellowish and sticky to silty in nature. The sands are usually fine grained leading to difficulty in development of tubewells to give sand free water. However, east and south eastern parts of the district are underlain by clay beds/ lenses and sands beds which are medium to coarse grained. The normal annual rainfall of the district is 1076 mm, and is unevenly distributed over the area. The average rainy days are 44.

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4.7 Climatic Condition

The climate of Ambala over most of the year is a pronounced continental in character. It is very hot in summers and markedly cold in winters. May and June can be really hot with the temperature soaring to over 48°C, while in winter it can be as low as -1°C. Ambala has a semi-arid as well as tropical climate. Being far away from the coasts and close to the Thar desert, it does not get the full share of the Monsoon current seen mostly across central and east of the country. Around 70% rainfall is received during the month of July to September and the remaining rainfall is received during December to February. Ambala is the maximum rain-hit area in Haryana with average rainfall being 47.16 inches per annum.

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5. PLANNING BRIEF

5.1 Planning concept

As per EIA Notification dated 14th September, 2006, as amended thereafter, the project falls under activity '5(f)' and Category 'A' as located outside the Notified Industrial Area Hence, the project will be appraised by EAC at MoEF&CC.

5.2 Employment & Population projection

The manpower requirement during operation phase will be approx. 20 and preference shall be given to locals based on their education and skills. Some temporary man power will be hired from local areas during construction phase. The summary of employment estimate for the project is given in the table below:

Table 5.1.: Land Breakup details

S. No.	Manpower	No.
1.	Plant Manager	1
2.	Purchase officer	1
3.	Formaldehyde plant operator	2
4.	Storekeeper	1
5.	Electrical cum Automation supervisor	1
6.	Labor & Helper	7
7.	Water treatment plant operator (Equalization tank, MBBR, Extended Aeration and settling tank units)	2
8.	Sales officer	1
9.	Accounts Manager	1
10.	Security Incharge	2
11.	Garnder	1
	Total manpower	20

5.3 Land Use Planning

The proposed project will be set up in an area of 10103.5 Sq.yard. (8447.82 Sq.m.) The land use break up is as follows:

Table 5.2.: Land Breakup details

S.No.	Type Of Use	Area in Hectares.
1.	Green Belt Area	4364
2.	Open area and passage	2858.07
3.	Working Area /Rest Room & Admin area	1225.742
	Total Land	8447.82 Sq.m.

M/s Surya Organics

Formaldehyde Manufacturing Unit of 200 TPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana.

PRE FEASIBILITY REPORT

5.4 Amenities/Facilities

Facilities like canteen, rest rooms and recreation facilities will be provided in the Proposed project. No other additional facilities are present.

M/s Surya Organics

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PRE FEASIBILITY REPORT

6. PROPOSED INFRASTRUCTURE

6.1 Processing Area/Built up Area

Total Working Area/Rest Room & Admin area in the proposed project is estimated to be 1225.742 Sq.m.

6.2 Non-Processing Area

Total 7222.07 Sq.m. of plant area will be used as Open area, passage area and under greenbelt cover. There is no residential area proposed within the proposed project site.

6.3 Green Belt

Indigenous trees will be planted in 0.4364 Ha out of the total area of 0.8447 Ha. Tree density of 2500 trees per hectare with indigenous species will be planted.

6.4 Social Infrastructure

Primary health care centre, Saha is present at 7.82 km in SW direction, Sahihd Bhagat Singh institute is at 1.73 Km in SW direction.

6.5 Connectivity

Project site is well connected by road and rail.

Particular	Distance(km)	Direction
Kersri Railway Station	13.68	SW
Tandwal Railway station	14.75	SW
Patiala Airport	17.14	SW
NH- 72	9.42	N
NH- 73	1.62	West

6.6 Drinking Water Management

Potable Drinking water shall be provided. Domestic water requirement which include drinking water is envisaged as 1 KLD.

6.7 Sewage System

Sufficient and suitable toilet facilities of proper standard and hygiene will be provided. Septic tanks followed by soak pit facilities will be provided for the treatment of sewage effluent generated from for the toilet points. It is a Zero Liquid Discharge Plant.

6.8 Industrial Waste Management

There is no significant solid waste generated from the process. Domestic and sanitary waste generated is very small and will be segregated & disposed-of as per the SW Management Rules, 2016. Flyash ash generated from boiler operation will be sold to brick manufacturer.

No Hazardous waste shall be generated from the project, except Used Oil which will be temporarily stored (for maximum 90 days) on the concrete flooring with bund wall and oil

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collecting pit and shall be suitably disposed-off through registered recyclers, as per Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and subsequent amendments

6.9 Power requirement & Supply/Source

Maximum power requirement for the plant will be 200 KVA. The power will be supplied by UPPCL. 2 D.G Sets each of capacity 180 KVA and 250 KVA will be proposed as the backup power supply and 1 Boiler of capacity 800 Kg/Hr is also proposed.

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PRE FEASIBILITY REPORT**7. REHABILITATION & RESETTLEMENT PLAN**

Agricultural land and habitation is not present in the land and there is no displacement involved. The Proposed Project land is under possession of Surya Organics. Hence, no Land Acquisition, Resettlement and Rehabilitation are envisaged for this project.

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PRE FEASIBILITY REPORT

8. PROJECT SCHEDULE & COST ESTIMATES

8.1 Implementation schedule

The construction of the project shall commence soon after receipt of Environment Clearance from MoEF&CC and CTE from SPCB. The project execution schedule shall be another 12 months after getting project clearance/ environment clearance.

8.2 Estimated Project Cost

The capital cost of the project is to be Rs. 7 Crores.

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PRE FEASIBILITY REPORT**9. ANALYSIS OF PROPOSAL (Final Recommendation)**

Formaldehyde is used by PLYWOOD and SUN MICA laminated sheets manufacturers, who make adhesives like Urea Formaldehyde and Phenol Formaldehyde products. The commercial production of Formaldehyde is manufactured from oxidation- dehydrogenation using a silver catalyst involving either the complete or incomplete conversion of methanol.

The project is envisaged to meet the demand supply gap in the domestic market, as the gap is created due to increase in growth of Formaldehyde for meeting increased demand of PLYWOOD and SUN MICA industries.

The Plywood Boards and sunmica sheets market is growing very fast in India. The market is expected to continue to grow at the minimum rate of 10 to 15% per year which makes the sufficient possibility to fulfill the domestic market demand. The Domestic supplies of the company will indirectly contribute to the growth of our nation.

So considering the above, the M/s Surya Organics is proposing to setup a manufacturing unit of Formaldehyde with the production capacity of 200 TPD at Khasra no. 2//23, 8//3, 8//7, 8//8/1 Village: Shrepur, Tehsil: Shahzadpur, Dist.: Ambala – Haryana.
