

# **FORM-1**

**FOR OBTAINING ENVIRONMENTAL CLEARANCE**

**For the Proposed Project,**

**Synthetic Organic Chemical (Resin)**

**Manufacturing Unit of**

**M/s. Keshari Unipolypro LLP**

**Survey No. 69 paiki 2, Village: Chanchavadarda, Taluka: Maliya  
Miyana, District- Morbi, Gujarat- 363670**

**Contact No.: 8155012120**

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**Prepared By:**

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**September, 2021**

## Appendix - I

(See paragraph - 6)

**FORM - 1**

<b>(I) Basic Information</b>	
Name of the project	: <b>M/s. Keshari Unipolypro LLP</b>
Location / Site alternative under consideration	: Survey No. 69 paiki 2, Village: Chanchavadarda, Taluka: Maliya Miyana, District- Morbi, Gujarat- 363670
Size of the Project *	: Production capacity of product is shown in <b>Annexure - 3</b>
Expected cost of the project	: Expected project cost would be 616.049 Lakhs. Details are shown in <b>Annexure - 10.</b>

\*Capacity corresponding to second activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.)

Sr. No	Item	Details			
1.	Name of the Project/s	Proposed Synthetic organic Chemicals (Resin) Manufacturing unit.			
2.	S. No. in the schedule	5(f)			
3.	Proposed capacity/ area/ length/ tonnage to be handled/command area/ lease area/number of well to be drilled.	Sr. No.	Name of Product	Group	Production Capacity
		1	Dimethyl Phthalate	Group A	1000 MT/Month
		2	Diethyl Phthalate		
		3	Di butyl Phthalate /Di Isobutyl Phthalate		
		4	Di Octyl Phthalate/ Di Iso Octyl Phthalate		
		5	Di Iso Nonyl Phthalate		
		6	Di Iso Decyl Phthalate		
		7	Tri Octyl Tri Mellitate (TOTM)		
		8	Tri-Isodecyl-Trimellitate (TIDTM)		
		9	Tri-Isodecyl-Trimellitate (TIDTM)		
		10	Di Iso Decyl Adipate (DIDA)		

Sr. No	Item	Details			
		11	Polyester Resin	Group B	300 MT/Month
		12	EO base Binder	Group C	200 MT/Month
		13	Isoper L (Isomer of paraffin)	Group D	500 MT/Month
		14	Pigment Emulsion	Group E	150` MT/Month
		Total			<b>2150 MT/Month</b>
4.	New/Expansion/Modernization	Proposed Synthetic organic Chemicals (Resin) Manufacturing unit.			
5.	Existing Capacity/Area etc.	Not Applicable			
6.	Category of Project i.e. 'A' or 'B'	A			
7.	Does it attract the general Condition? If Yes, please specify.	No			
8.	Does it attract the specific Condition? If Yes, please specify.	No			
9.	Location				
	Plot/Survey/Khara No.	Survey No. 69 paiki 2, Village: Chanchavadarda, Taluka: Maliya Miyana, District- Morbi, Gujarat- 363670			
	Village	Chanchavadarda			
	Tehsil	Maliya Miyana			
	District	Morbi			
	State	Gujarat			
10.	Nearest railway station/airport along with distance in kms	<u>Nearest Railway Station</u> -Nazarbaug Railway Station- 23.15 km in ESE direction <u>Nearest Airport</u> - Rajkot Airport - 72.44 km in SSE direction			
11.	Nearest Town, City, District Headquarters along with distance in kms.	<u>Nearest Town:</u> Morbi - 21.28 km in ESE direction			
12.	Village Panchayats, Zila Parishad, Municipal Corporation, Local body(complete postal) address with telephone nos. to be givan)	<u>Nearest Village:</u> Chanchavadarda - 1.09 km in South direction			
13.	Name of the applicant	<b>Mr. Kiritbhai Bhagwanjibhai Fultariya</b>			
14.	Registered Address	Survey No. 69 paiki 2, Village: Chanchavadarda, Taluka: Maliya Miyana, District- Morbi, Gujarat- 363670			
15.	<b>Address for correspondence</b>				
	Name	<b>Mr. Kiritbhai Bhagwanjibhai Fultariya</b>			

Sr. No	Item	Details
	Designation (Owner/ Partner/ CEO)	Partner
	Address	Fultariya Kiritbhai B, 704, Nilkanth Heights, ram setu society, ravapar kundla road, ravapar morbi-363641
	E-mail	<b>info.keshariunipolypro2021@gmail.com</b>
	Telephone No.	<b>8155012120</b>
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	No alternative site was selected.
17.	Interlinked Projects.;	Not Applicable
18.	Whether separate application of interlinked projects has been submitted?	Not Applicable
19.	If yes, date of submission	Not Applicable
20.	If no, reason	Not Applicable
21.	Whether the proposal involves approval/ clearance under: If yes, details of the same and their status to be given. (a)The Forest (Conservation) Act, 1980? (b)The Wildlife (Protection) Act, 1972? (c) The C.R.Z Notification, 1991?	Not Applicable
22.	Whether there is any Government Order/ Policy relevant/ relating to the site?	Not Applicable
23.	Forest land involved (hectares)	Not Applicable
24.	Whether there is any litigation pending against the project and/ or land in which the project is propose to be set up? a) and b). Its relevance with the proposed project.	Not Applicable

## (II) Activity

- Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)**

Sr. No.	Information / Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local and use plan)	Yes	There will be minor change in land use due to construction work. Construction would only be carried out after Obtaining Environmental clearance.

Sr. No.	Information / Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
1.2	Clearance of existing land, vegetation and buildings?	Yes	The vegetation and small weed would be cleared after obtaining EC.
1.3	Creation of new land uses?	No	Not Applicable
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	Not Applicable
1.5	Construction works?	No	The construction would be carried out only after obtaining EC from concerned authority.
1.6	Demolition works?	No	Not Applicable
1.7	Temporary sites used for construction works or housing of construction workers?	No	No temporary sites or housing facilities will be provided since local contractors/ workers will be given preference for various construction activities.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Detailed plant lay-out is attached as <b>Annexure -2.</b>
1.9	Underground works including mining or tunneling?	No	Not Applicable
1.10	Reclamation works?	No	Not Applicable
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production and manufacturing processes?	Yes	All the steps for the control of air pollution, water pollution and safe handling and disposal of all types of hazardous wastes will be considered in our Environmental Management Plan. Therefore, land use of the project site will not be impacted due to production and manufacturing process. Manufacturing process of resin along with flow diagram is attached as <b>Annexure - 4</b> , proposed ETP is depicted in <b>Annexure - 7.</b>
1.14	Facilities for storage of goods or materials?	Yes	Butanol, Ethyl Alcohol, Methyl alcohol will be stored in Tank Ethylene oxide will be stored in bullet all will be stored in Tank Farm.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	A detail of solid/hazardous waste is attached as <b>Annexure - 5.</b> A detail of ETP is attached as <b>Annexure - 7.</b>
1.16	Facilities for long term housing of operational workers?	No	Unit will not provide Labour quarters.
1.17	New road, rail or sea traffic during construction or operation?	No	Not Applicable

Sr. No.	Information / Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
1.18	New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	No new roads and rails are envisaged. Existing transportation facilities will be used for the proposed project. Therefore, land use will not be impacted.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not Applicable
1.20	New or diverted transmission lines or pipelines?	No	Not Applicable
1.21	Impoundment, damming, culver ting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not Applicable
1.22	Stream crossings?	No	Not Applicable
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Total water requirement for proposed project will be 40.12 KLD out of which <b>fresh water would be 23.95 KLD</b> and reused water would be 16.17 KLD. Source of water would be Borewell. So unit will apply for 23.95 KLD from CGWA.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	Not Applicable
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Transport of personnel or raw materials for construction or operation will not bring change to topography, land use, water bodies etc. Also to be noted that local personnel will be employed for the operation work, hence no such impact due to transport of personnel or material is envisaged. Building materials will be transported to the construction site.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not Applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not Applicable
1.28	Influx of people to an area in either temporarily or permanently?	No	People from nearby villages will be given preference for almost all the temporary as

Sr. No.	Information / Checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
			well as permanent jobs. Therefore, no such impact due to influx of people to an area in either temporarily or permanently is envisaged.
1.29	Introduction of alien species?	No	Not Applicable
1.30	Loss of native species or genetic diversity?	No	Not Applicable
1.31	Any other actions?	No	No additional actions will be implemented that would cause physical changes in land use, topography or water bodies.

**2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):**

Sr. No.	Information/checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	Total area of unit is 11129 m <sup>2</sup> , out of which 3705 m <sup>2</sup> area will be there for greenbelt. This is shown in plant lay-out attached as <b>Annexure - 2</b> . Non-Agricultural (NA) application & dastavej copy are attached as <b>Annexure - 12</b> .
2.2	Water (expected source & competing users) unit: KLD	Yes	Total water requirement for proposed project will be 40.12 KLD out of which <b>fresh water would be 23.95 KLD</b> and reused water would be 16.17 KLD. Source of water would be Borewell. So unit will apply for 23.95 KLD from CGWA.
2.3	Minerals (MT)	No	Not Applicable
2.4	Construction material – stone, aggregates, and /soil (expected source – MT)	Yes	Locally available construction materials will be utilized for the construction work.
2.5	Forests and timber (source – MT)	Yes	A small amount of timber will be utilized for office building. The same will be purchased from open market.



2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	1000 KVA load will be required for proposed project from PGVCL 125 KVA D. G. Set will be provided for proposed project. Steam boiler of 2 TPH will be required for proposed project and for that Fuel will be Briquettes (6.87 MT/day) and as APCM Multicyclone Dust Collector followed by Bag filter followed by water Scrubber will be provided. TFH of 1000000 Kcal/hr will be required for proposed project and for that fuel required will be Briquettes (5 MT/day) and as APCM Multicyclone Dust Collector followed by Bag filter followed by water Scrubber will be provided.
2.7	Any other natural resources (use appropriate standard units)	No	No

**3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.**

Sr. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	Adequate measures will be taken as per the Manufacture, Storage & Import of Hazardous Chemicals Rules, 1989 and subsequent amendments for handling, storage and use of the hazardous materials. However, Risk Assessment Study will be carried out and based on the same On-site Emergency Plan will be prepared. Please refer <b>Annexure - 3</b> for details of hazardous raw materials.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Not Applicable
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Improvement of local people welfare by increasing employment
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	No	Not applicable due to the fact that our unit will set-up on an open land area, this is far from nearby resident area (Chanchavardarda 1.09 km in South direction). Thus, there will not be any



			adverse effect on vulnerable groups of people.
3.5	Any other causes	No	Not Applicable

#### 4. Production of solid wastes during construction or operation or decommissioning (MT/month)

Sr. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Spoil, Over burden or mine wastes	No	Not Applicable
4.2	Municipal Waste (domestic and or commercial wastes)	Yes	A details of solid/hazardous waste is attached as <b>Annexure – 5.</b>
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	A details of solid/hazardous waste is attached as <b>Annexure – 5.</b>
4.4	Other industrial process wastes	Yes	A details of solid/hazardous waste is attached as <b>Annexure – 5.</b>
4.5	Surplus product	No	Not Applicable
4.6	Sewage sludge or other sludge from effluent treatment	Yes	A details of solid/hazardous waste is attached as <b>Annexure – 5.</b>
4.7	Construction or demolition waste	Yes	Construction wastes will be inert in nature and will be collected and utilized in filling of low-lying areas within the unit. Since the quantity of the construction material is not available, quantity of construction waste can not be estimated. No demolition work will be carried out for the proposed manufacturing unit. Therefore, no demolition waste will be generated.
4.8	Redundant machinery or equipment	No	Not Applicable
4.9	Contaminated soils or other materials	No	Not Applicable
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	Not Applicable

#### 5. Release of pollutants or any hazardous, toxic or noxious substances to air (kg/hr)

Sr. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil	Yes	Details of flue gas stack with release of

	fuels from stationery or mobile sources		pollutants for resin plant is given in <b>Annexure 8.</b>
5.2	Emissions from production processes	Yes	There will be process gas emission from production, Details is given in <b>Annexure 8.</b>
5.3	Emissions from materials handling including storage or transport	Yes	There will be minor fugitive emissions due to handling & storage of materials for which proper control measures will be adopted.
5.4	Emissions from construction activities including plant and equipment	Yes	<ul style="list-style-type: none"> <li>- Due to construction activities there may be chances of fugitive emission.</li> <li>- To avoid fugitive emission, proper control measures will be adopted.</li> </ul>
5.5	Dust or odors from handling of materials including construction materials, sewage and waste	Yes	Due to handling of construction materials, concentration of particulate matter in ambient air will slightly increase for that particular time. Nevertheless, water sprinkling will be carried out during construction activity to nullify the effects of such dusting. There will not be any odour problem during the handling of construction materials. During construction and operation phase adequate sanitary facilities will be provided for the workers.
5.6	Emissions from incineration of waste	No	Not Applicable
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not Applicable
5.8	Emissions from any other sources	No	Not Applicable

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**6. Generation of Noise and Vibration, and Emissions of Light and Heat:**

Sr. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Source of noise pollution is Steam boiler, Thermic Fluid Heater, D. G. sets, air compressor etc. As far as noise is concerned adequate sound enclosures is provided to all the equipments & machineries generating high noise. However, ear protecting devices is provided to all workers working in such areas where noise levels will be high. Increase in greenbelt development is helpful to abate noise levels.
6.2	From industrial or similar processes	Yes	Sources of noise pollution from the plant are pumps and motors, machineries, cooling tower etc. All the equipment in the unit will be designed and operated to have the noise level not exceeding 75-80 dB (A) at a distance of 1.5 m. from the equipment. Also, all the measures will be taken to limit the noise level at the plant boundary within the stipulated limits.
6.3	From construction or demolition	Yes	Ambient noise level will slightly increase during construction phase. However, effect of such noise would be temporary and negligible.
6.4	From blasting or piling	No	Not Applicable
6.5	From construction or operational traffic	Yes	Ambient noise level will slightly increase due to construction and operational traffic. However, effect of such noise would be temporary and negligible.
6.6	From lighting or cooling systems	No	Not Applicable
6.7	From any other sources	No	Not Applicable

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**7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, ground water, coastal waters or the sea:**

Sr. No.	Information/checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials.	Yes	As this is a chemical project which involves some hazardous materials so care is taken while handling, storage, use of the materials, especially raw materials to ensure that they are proper utilized as per prescribed regulations like THE MANUFACTURE, STORAGE AND IMPORT OF HAZARDOUS CHEMICAL RULES, 1989 or spillage of hazardous materials, or HWM Rules to avoid the risks of contamination from release of pollutants to maximum level.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge).	No	The details of proposed Effluent Treatment Plant is attached as <b>Annexure - 7.</b>
7.3	By deposition of pollutants emitted to air into the land or into water.	No	No major impact is anticipated by deposition of pollutants emitted to air into the land or into water due to all the necessary air pollution control measures to be adopted for controlling the air pollution within the norms specified by Central/State Pollution Control Board. The details of proposed Effluent Treatment Plant is attached as <b>Annexure - 7.</b> And Flue gas and process gas stack as <b>Annexure - 8.</b>
7.4	From any other sources.	No	Not Applicable
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Not Applicable

**8. Risk of accidents during construction or operation of the project, which could affect human health or the environment**

Sr. No.	Information/checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires	Yes	Risk Assessment study will be carried out to

	etc. from storage, handling, use or production of hazardous substance		minimize any possible causes that would lead to an accident. Based on the same, the industry will prepare an onsite emergency plan highlighting the steps to be taken at the time of emergency, key personnel to be contacted; phone numbers of the emergency help lines etc. Moreover adequate storage facilities will be provided and special care will be taken for storage, handling, use and transport of hazardous materials.
8.2	From any other causes	No	Not Applicable
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	Floods are not likely to occur as water body are far away. It may be noted that seismic forces will be considered for the construction of proposed structures/ buildings as the project site falls under the Sesmic Zone - IV.

**9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality.**

Sr. No.	Information/checklist confirmation	Yes /No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting, lities, ancillary development or development stimulated by the project which could have impact on the environment e.g. <ul style="list-style-type: none"> <li>Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)</li> <li>Housing development</li> <li>Extractive industries</li> <li>Supply industries</li> <li>Other</li> </ul>	No	Not Applicable
9.2	Lead to after use of the site, which could have an impact on the environment	No	Not Applicable
9.3	Set a precedent for later developments	No	Not Applicable
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Not Applicable

(III) Environmental Sensitivity			
Sr. No.	Areas	Name/ Identitiy	Areal Distance (within 15 km.) proposed project location boundry
1	Areas protected under international conventions, national or local legislation for their ecological landscape, cultural or other related value	No	Not Applicable
2	Areas with an important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	Chanchavadarda pond – 1.08 km in South direction
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	Wild Ass sanctuary – 13.90 km in West Direction
4	Inland, coastal, marine or underground waters	Yes	Chanchavadarda pond – 1.08 km in South direction
5	State, National boundaries	No	Not Applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	Not Applicable
7	Defense installations	No	Not Applicable
8	Densely populated or built-up area	Yes	Morbi City is approx. 21.28 km away in SE direction from project site.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Targhari Primary school, is at 2.68 km away in WNW direction from project site. Samarpan hospital Morbi is at 21.47 km away in ESE direction from project site.
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agricultures, fisheries, tourism, minerals)	No	Not Applicable
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	Not Applicable
12	Areas susceptible to natural hazard	No	Not Applicable

(III) Environmental Sensitivity			
Sr. No.	Areas	Name/ Identitiy	Areal Distance (within 15 km.) proposed project location boundry
	which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)		

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"I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost".

**Date: 17/09/2021**

**Place: Morbi**

**Signature of the Applicant  
with Name and Full Address**

**KESHARI UNIPOLYPRO LLP**

*મત્ત કિરીટ બ*

**DESIGNATED PARTNER**

**Mr. Kiritbhai Bhagwanjibhai Fultariya**

**M/s. Keshari Unipolypro LLP**

**Survey No. 69 paiki 2, Village: Chanchavadarda,**

**Taluka: Maliya Miyana, District- Morbi,**

**Gujarat- 363670**

**Note:**

1. The projects involving clearance under coastal regulation zone notification, 1991 shall submit with the application a C.R.Z map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t C.R.Z and the recommendations of the state coastal zone management authority. Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the chief wildlife warden thereon"
3. All correspondence with the Ministry of Environment & Forests including submission of application for TOR/Environmental Clearance, subsequent clarifications, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project."

**ANNEXURES FOR FORM-1  
FOR OBTAINING ENVIRONMENTAL CLEARANCE**

**For the Proposed Project,  
Synthetic Organic Chemical (Resin)**

**Manufacturing Unit of**

**M/s. Keshari Unipolypro LLP**

**Survey No. 69 paiki 2, Village: Chanchavadarda, Taluka: Maliya  
Miyana, District- Morbi, Gujarat- 363670**

**Contact No.: 8155012120**

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**September, 2021**

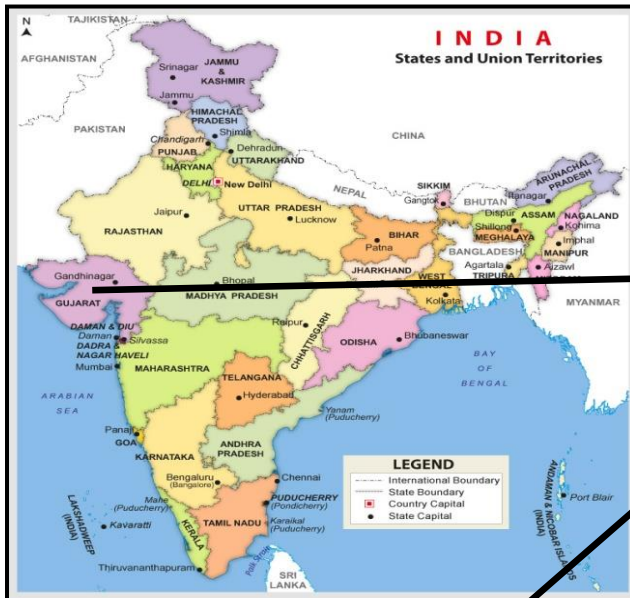
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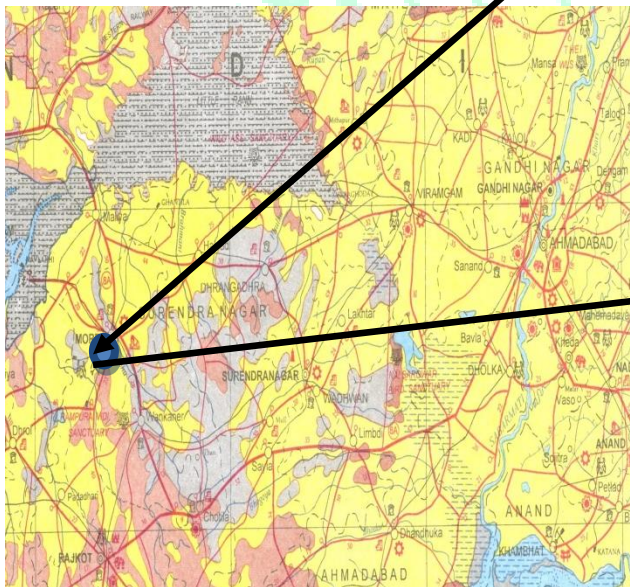
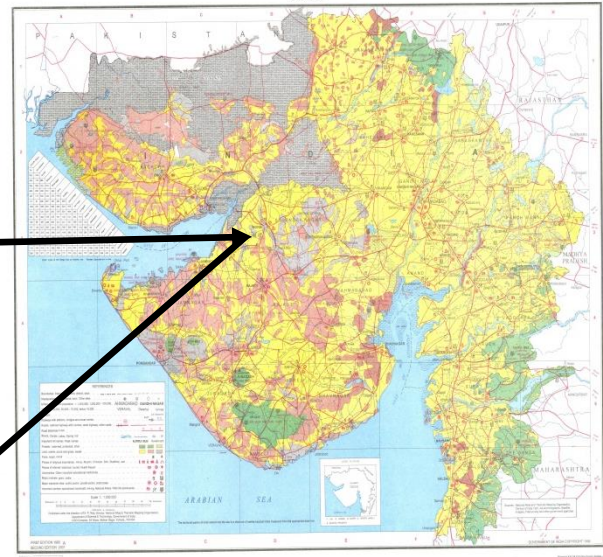
# **ANNEXURE – 1**

## **PROJECT LOCATION**

**India**



**Gujarat**



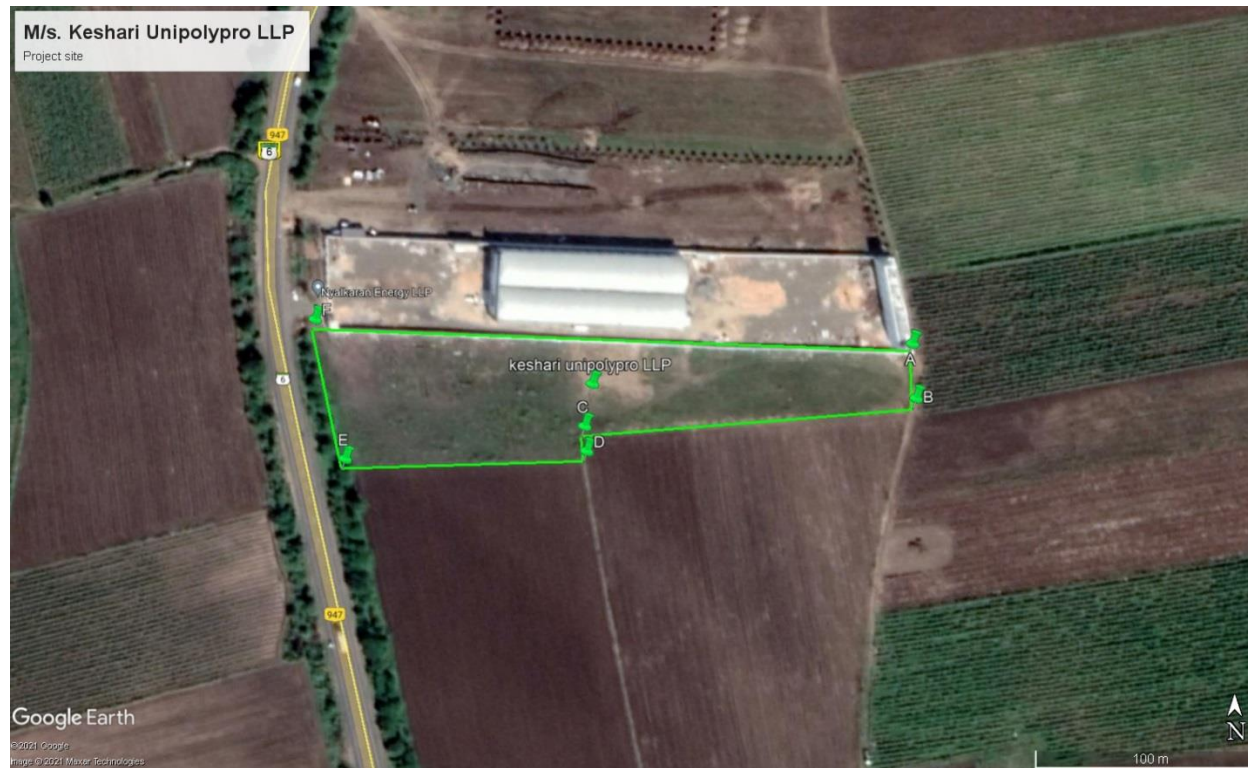
**District: Morbi**



**Project site**



## SATELLITE IMAGE



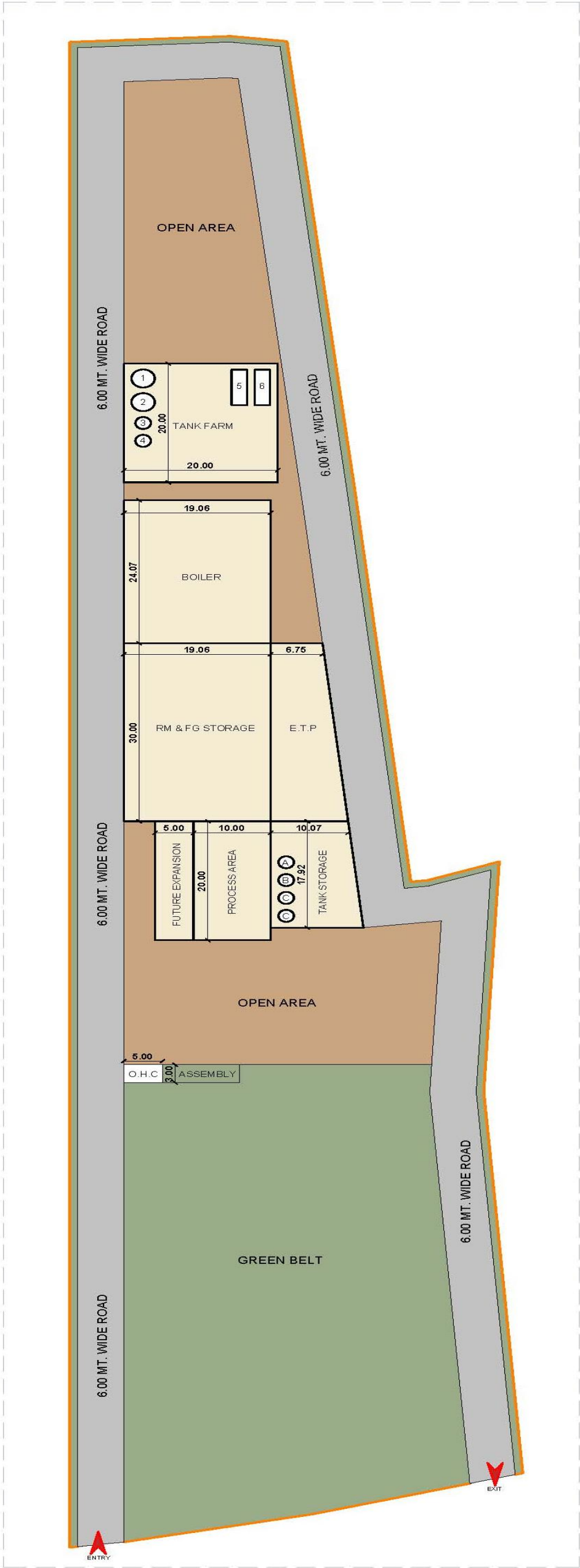
Sr. No.	Node	Latitude	Longitude
1	A	22°57'27.31"N	70°41'26.73"E
2	B	22°57'26.54"N	70°41'26.79"E
3	C	22°57'26.15"N	70°41'21.72"E
4	D	22°57'25.80"N	70°41'21.75"E
5	E	22°57'25.69"N	70°41'18.06"E
6	F	22°57'27.65"N	70°41'17.60"E

## Siting criteria

Sr. No.	Important Features	Description
1.	Location	<b>Survey No. 69 paiki 2, Village: Chanchavadarda, Taluka: Maliya Miyana, District- Morbi, Gujarat- 363670</b>
2.	GPS Coordinates	22°57'26.75"N 70°41'21.83"E
3.	Temperature Range	19.7 °C to 33.8 °C (average)
4.	Mean Sea Level	20 m
5.	Annual Rain Fall	592 mm (average)
6.	Nearest Village	Chanchavardarda – 1.09 km in SSW direction
7.	Nearest school	Targhari Primary school 2.68 km in WNW direction
8.	Nearest Hospital	Samarpan Hospital 21.47 km in ESE direction
9.	Nearest Fire station	Morbi Fire station 21.51 km in SE direction
10.	Nearest National Highway	NH 947 – 0.01 km WSW direction
11.	Nearest River/Water body	Chanchavardarda pond – 1.08 km in South direction
12.	Nearest Town	Morbi – 21.28 km in SE direction
13.	Nearest Railway Station	Nazarbaug – 23.15 km in ESE direction
14.	Nearest Airport	Rajkot Airport – 72.44 km in SSE direction
15.	National Parks / Sanctuary	Wild Ass sanctuary – 13.90 km in West Direction
16.	Nearest Historical Places	Julto Pool 21.96 km in ESE direction

**T. R. ASSOCIATES**

ANNEXURE – 2  
PLANT LAY-OUT



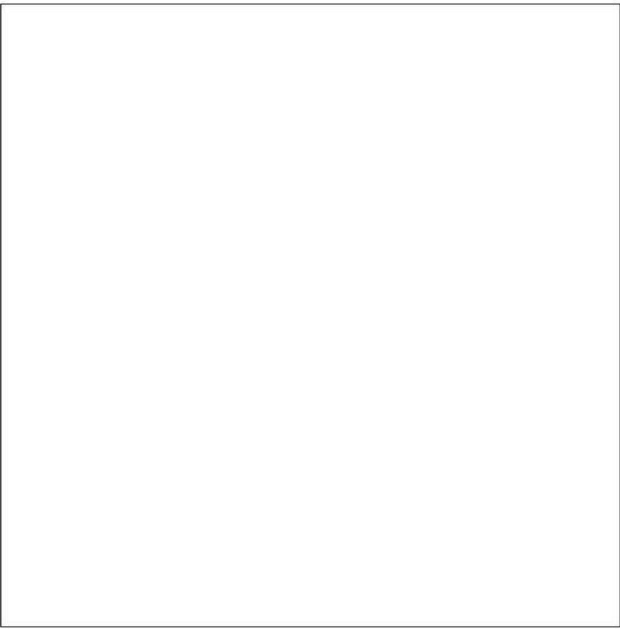
LAYOUT PLAN

Total Site Area = 11129.00 sq.mts.  
Built up Area = 2226.00 sq.mts.  
Green Area = 3705.00 sq.mts.  
(33.29% GREEN BELT OF PLOT AREA)  
Road Area = 3136.00 sq.mts.  
Open Area = 2062.00 sq.mts.

All dim. are in meter.

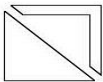
	SIZE IN MT.	TOTAL AREA IN SQ. MT.
TANK FARM	20.00 X 20.00	400.00
BOILER	19.06 X 24.07	458.77
RM & FG STORAGE	19.06 X 30.00	571.80
E.T.P	06.75 X 30.00	202.50
FUTURE EXPANSION	05.00 X 20.00	100.00
PROCESS AREA	10.00 X 20.00	200.00
TANK STORAGE	10.07 X 17.92	180.45
O.H.C	05.00 X 03.00	15.00

TANK DETAILS			
TANK	RAW MATERIAL	CAPACITY	SIZE IN MTR.
1	ETHYL ALCOHOL	100 KL	3 (DIA)
2	ETHYL ALCOHOL	100 KL	3 (DIA)
3	BUTANOL	40 KL	2 (DIA)
4	METHYL ALCOHOL	40 KL	2 (DIA)
5	ETHYLENE OXIDE	20 KL	02.00 X 06.00
6	ETHYLENE OXIDE (SPARE)	20 KL	02.00 X 06.00
A	ISO NONANOL	40 KL	2(DIA)
B	ISODECYL ALCOHOL	40 KL	2(DIA)
C	OCTANOL	40 KL	2(DIA)
D	NAOH SOLUTION	10 KL	2(DIA)



N

M/s KESHARI UNIPOLYPRO LLP  
Survey No. 69 Paiki 2, Village:- Chanchavadarda  
Taluka:- Maliya Miyana, District:- Morbi,  
Gujarat,363670



vishwas patel architects  
+91 - 9879863966



## **ANNEXURE – 3**

### **LIST OF PRODUCTS**

Sr. No.	Name of Product	Group	Production Capacity	CAS No.
1	Dimethyl Phthalate	Group A	1000 MT/Month	131-11-3
2	Diethyl Phthalate			84-66-2
3	Di butyl Phthalate /Di Isobutyl Phthalate			84-69-5
4	Di Octyl Phthalate/ Di Iso Octyl Phthalate			27554-26-3
5	Di Iso Nonyl Phthalate			28553-12-0
6	Di Iso Decyl Phthalate			26761-40-0
7	Tri Octyl Tri Mellitate (TOTM)			3319-31-1
8	Tri-Isodecyl-Trimellitate (TIDTM)			36631-30-8
9	Tri-Isodecyl-Trimellitate (TIDTM)			103-23-1
10	Di Iso Decyl Adipate (DIDA)			27178-16-01
11	Polyester Resin	Group B	300 MT/Month	113669-95-7
12	EO base Binder	Group C	200 MT/Month	--
13	Isoper L (Isomer of paraffin)	Group D	500 MT/Month	64742-48-9
14	Pigment Emulsion	Group E	150` MT/Month	--
<b>TOTAL</b>			<b>2150 MT/Month</b>	

### **LIST OF RAW MATERIALS**

Sr. No.	Raw Material	MT/M	CAS no.
1	Adipic Acid	415.36	124-04-9
2	Butanol / Iso Butanol	586.77	71-36-3
3	di- and tri- ethanolamines	109.29	141-43-5
4	Dyes	45.00	--
5	Ethyl Alcohol*	580.00	64-17-5
6	Ethylene oxide*	91.07	75-21-8
7	Glycol*	164.44	107-21-1
8	Iso Nonanol	759.40	205-583-7
9	isodecyl Alcohol	871.00	25339-17-7
10	Methyl alcohol*	506.05	67-56-1
11	Octanol / Iso octanol	813.67	111-87-5
12	Paraffin*	475.59	8002-74-2
13	Phthalic anhydride*	820.00	85-44-9
14	Soda Ash/NaOH Sol	40.00	497-19-8

15	terephthalic acid	171.59	100-21-0
16	Trimellitic Anhydride	353.56	552-30-7

**Note:** \* *The stated chemicals are considered as Hazardous Chemicals as per the Manufacture, Storage & Import of Hazardous Chemicals (MSIHC) Rules 1989 and its amendments.*

## ANNEXURE – 4

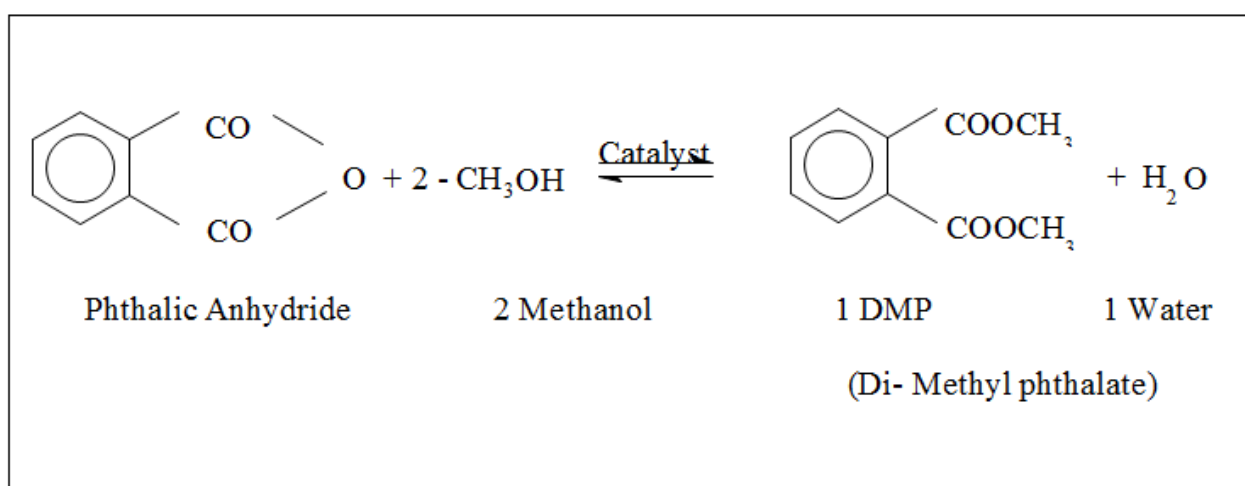
### MANUFACTURING PROCESS

#### 1. Di-Methyl phthalate

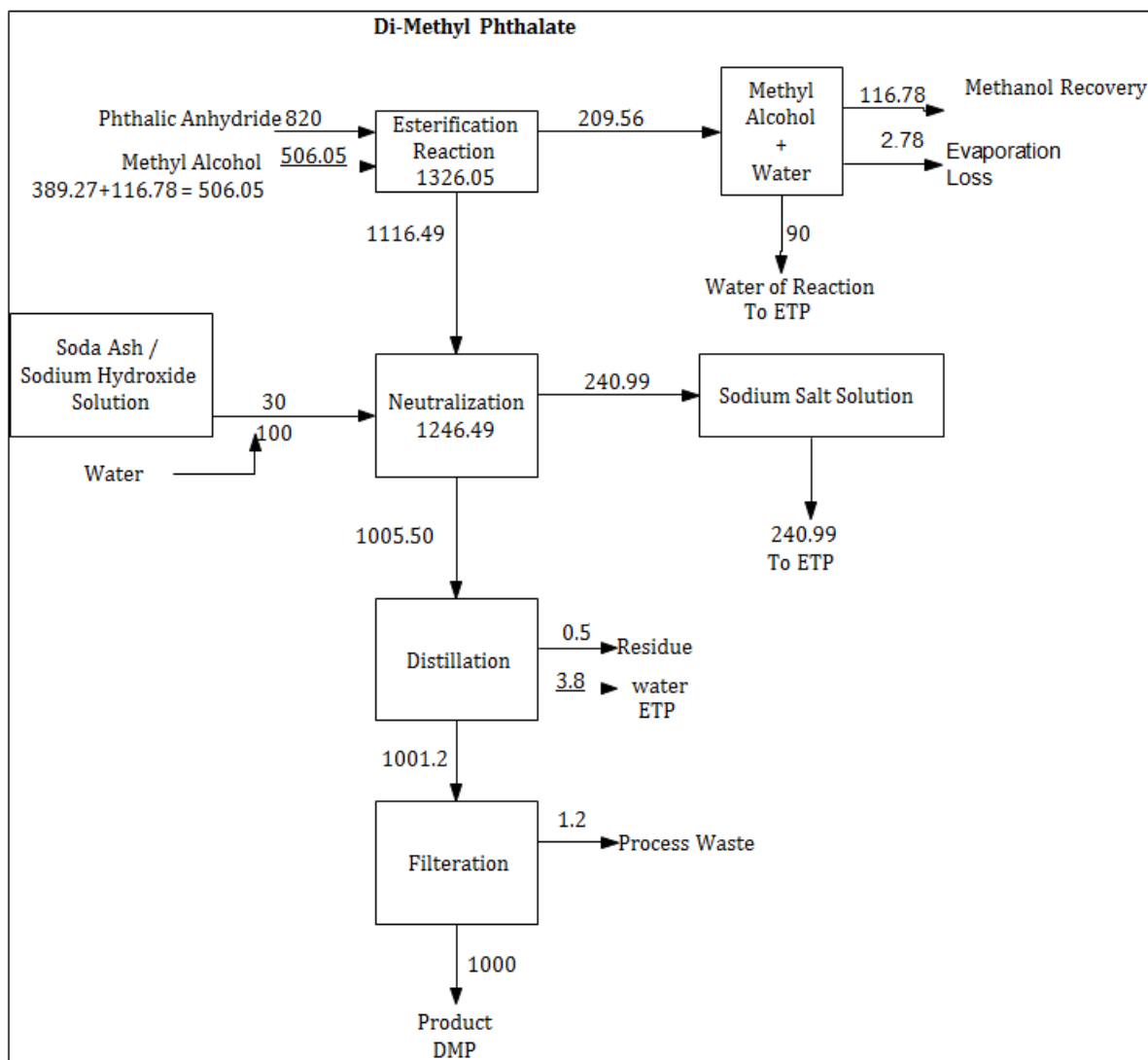
##### A. Manufacturing Process

Phthalic Anhydride and Methanol in the presence of catalyst are reacted to form Diester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

##### B. Chemical Reaction



### C. Flow diagram



### D. Mass Balance

Di-Methyl phthalate				1000 MT/Month	
Batch Size				5	MT
Working days per Month				25	days
No. of Batches per month				200	Nos.
Batch time				16	Hrs.
Reactor size				6.5	KL
No of reactors				6	--

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/M T	MT/M	Remarks
1.	Phthalic anhydride	820.00	0.82	820.00	<u>Dimethyl Phthalate</u>	1000.00	1.00	1000.00	Product
2.	Methyl alcohol	506.05	0.51	506.05	Methyl Alcohol recovery	116.78	0.12	116.78	Reuse in process

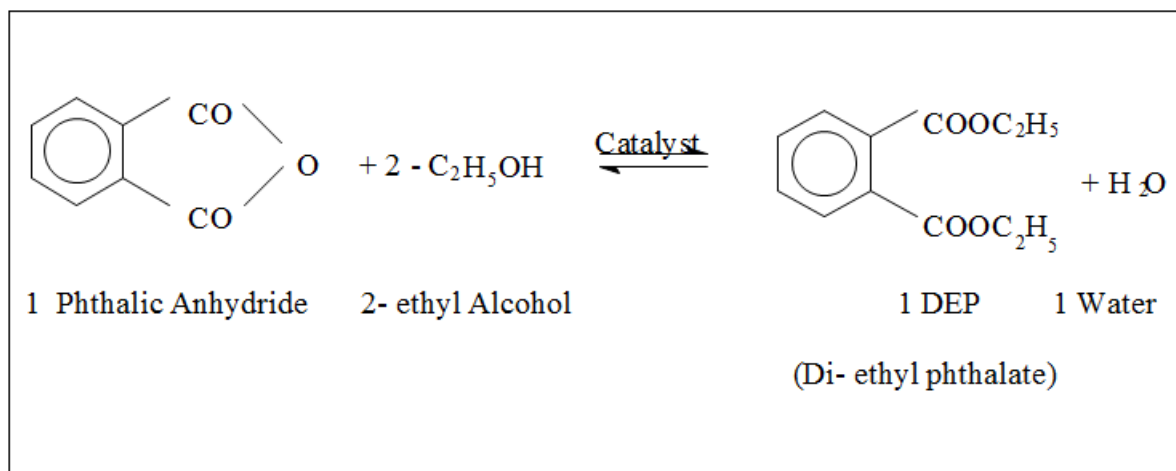
3.	Soda Ash/NaOH Sol	30.00	0.03	30.00	Distillation Residue	0.50	0.00	0.50	To CHWIF
4.	Water	100.00	0.10	100.00	Wastewater	334.79	0.33	337.57	To ETP
5.					Process Waste	1.20	0.00	1.20	To TSDF
6.					Evaporation Loss	2.78	0.00		To AC column
7.	Total	1456.05				1456.05			

## 2. Di-Ethyl phthalate

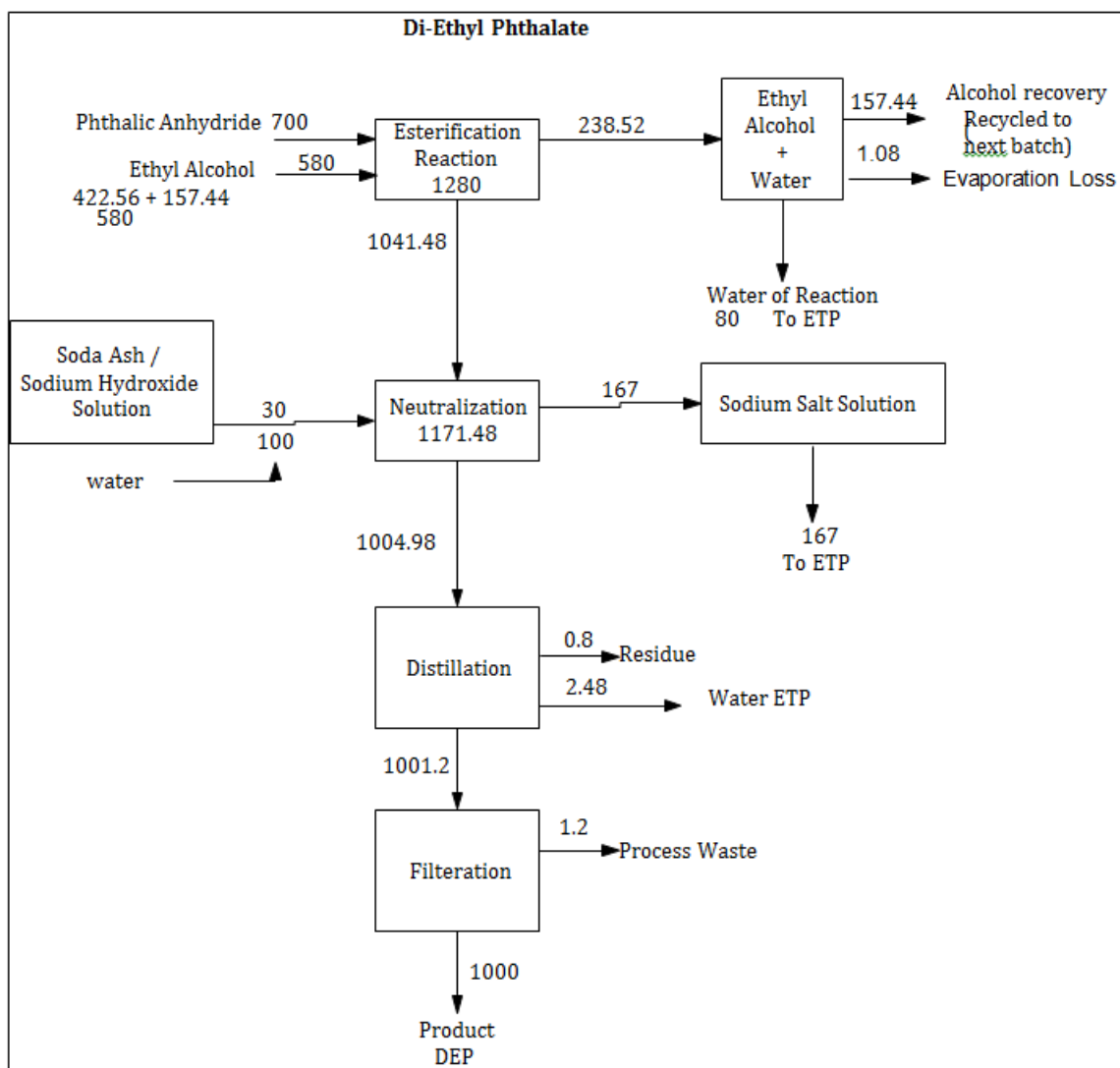
### A. Manufacturing Process

Phthalic Anhydride Ethyl Alcohol in the presence of catalyst are reacted to form Diester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

### B. Chemical Reaction



### C. Process Flow Diagram



### D. Mass Balance

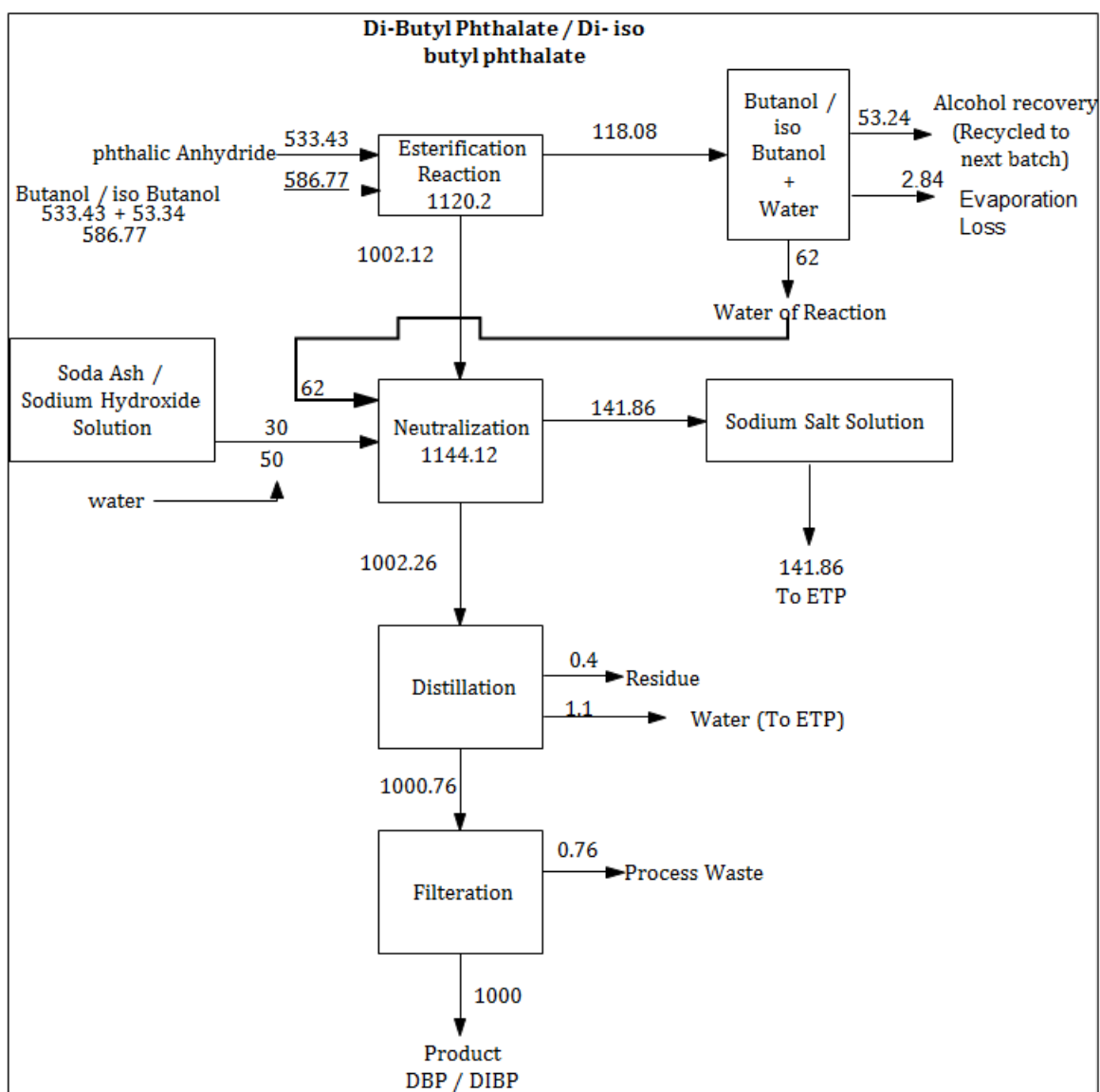
Di-Ethyl phthalate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Phthalic anhydride	700.00	0.70	700.00	<u>2. Di-Ethyl phthalate</u>	1000.0	1.00	1000.00	Product
2.	Ethyl Alcohol	580.00	0.58	580.00	Ethyl Alcohol recovery(	157.44	0.16	157.44	Reuse in process





### C. Process Flow Diagram



### D. Summary of Mass Balance

Di-Butyl Phthalate / Di- iso butyl phthalate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/M T	MT/ M	Output	Kg in mass balance	MT/ MT	MT/M	Remarks
1.	Phthalic anhydride	533.43	0.53	533.43	<b>Di-Butyl Phthalate</b>	1000.00	1	1000.00	Product
2.	Butanol / Iso Butanol	586.77	0.58	586.77	Alcohol recovery(Reuse in process)	53.24	0.053	53.24	Reuse in process

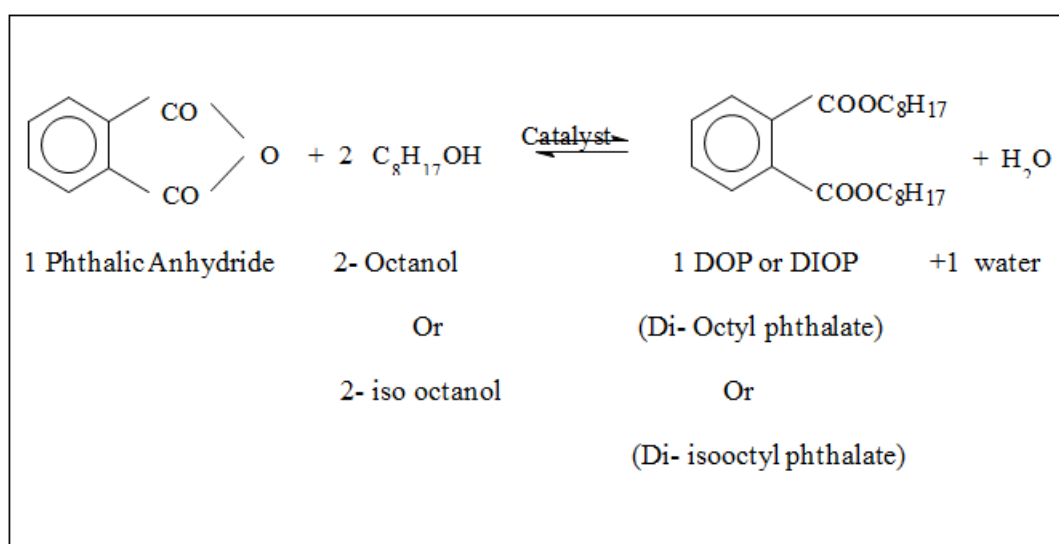
									s
3.	Soda Ash/NaOH Sol	30.00	0.03	30.00	Distillation Residue	0.40	0.0004	0.40	To CHWIF
4.	Water	50.00	0.05	50.00	Wastewater	142.96	0.14	142.96	To ETP
5.	Recycled water	62.00	0.062	62.00	Process Waste	0.76	0.00076	0.76	To TSDF
6.					water Recycle	62.00	0.062	62.00	Reuse in process
7.					Evaporation Loss	2.84	0.00284	2.84	To AC column
	Total	1262.20				1262.20			

#### 4. Di-Octyl phthalate / Di- isoOctyl phthalate

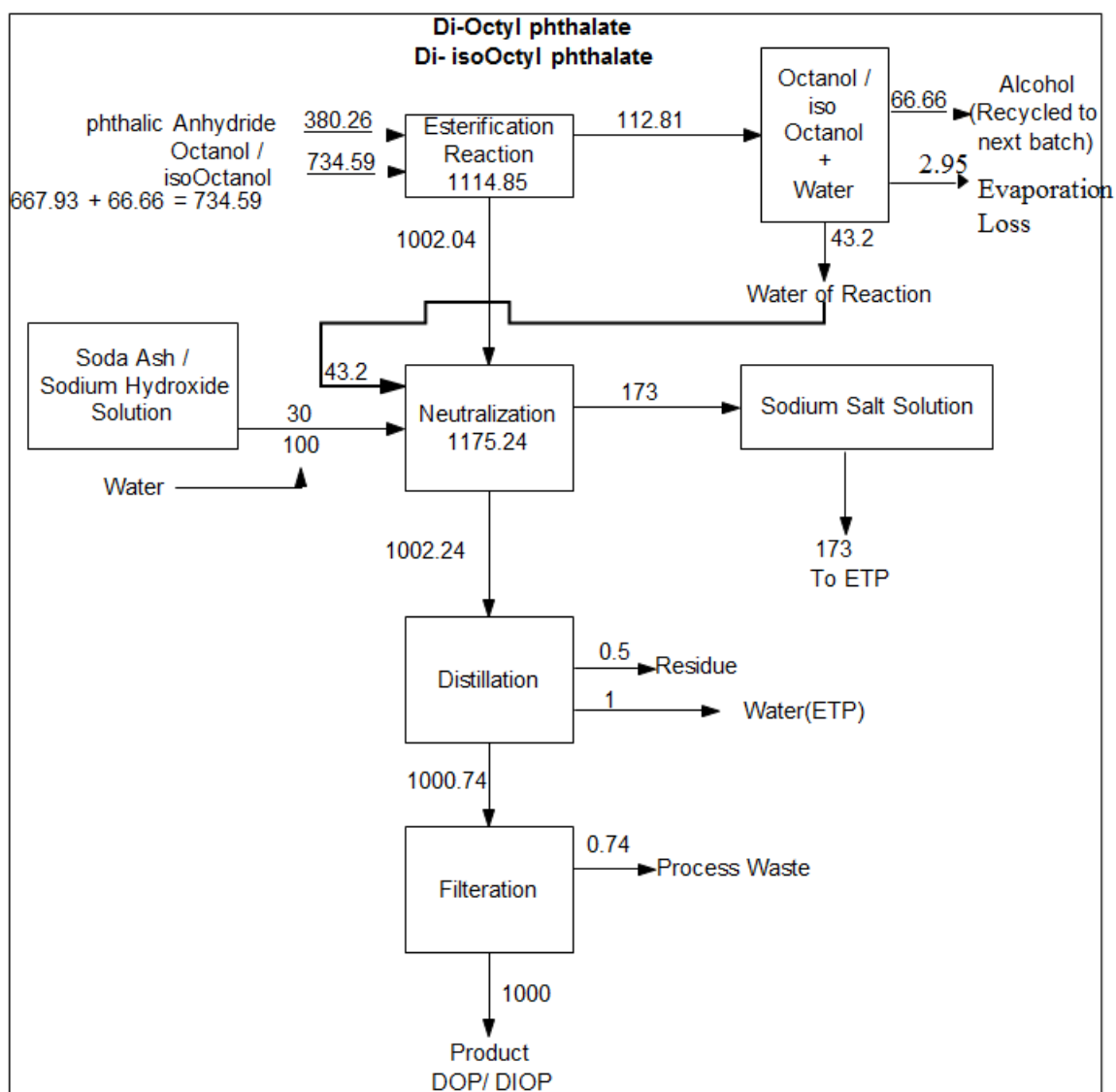
##### A. Manufacturing Process

Phthalic Anhydride and Octanol / iso Octanol in the presence of catalyst are reacted to form Diester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

##### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Di-Octyl phthalate / Di- isoOctyl phthalate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT /M T	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Phthalic anhydride	380.26	0.38	380.26	<u>Di-Octyl phthalate</u>	1000.00	1	1000.00	Product
2.	Octanol / Iso octanol	734.59	0.73	734.59	Octanol Recovery	66.66	0.066	66.66	Reuse in process

									ss
3.	Soda Ash/NaOH Sol	30.00	0.03	30.00	Distillation Residue	0.50	0.0005	0.50	To CHWIF
4.	Water	100.00	0.1	100.00	Wastewater	174.00	0.174	174.00	To ETP
5.	Recycled water	43.20	0.0432	43.20	Process Waste	0.74	0.00074	0.74	To TSDF
6.					Evaporation loss	2.95	0.00295	2.95	To AC column
7.					water Recycle	43.20	0.0432	43.20	Reuse in process
	Total	1288.05				1288.05			

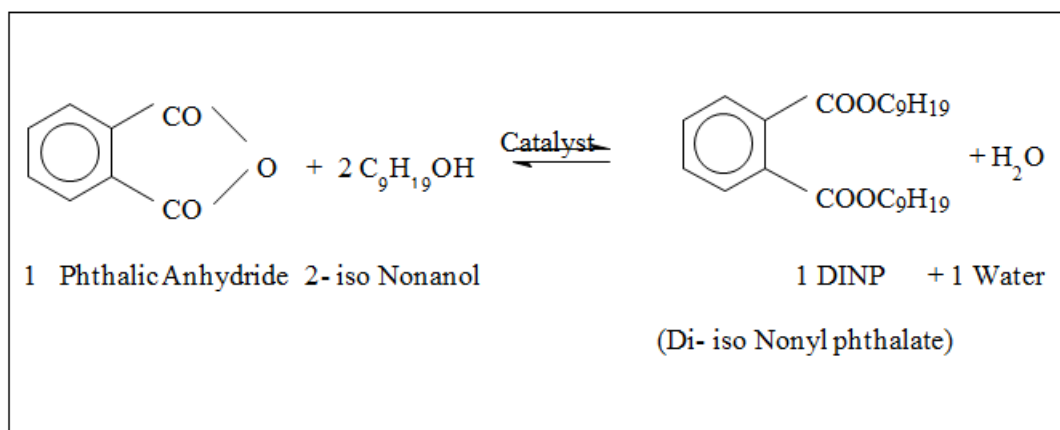
## 5. Di-isoNonyl Phthalate

### A. Manufacturing Process

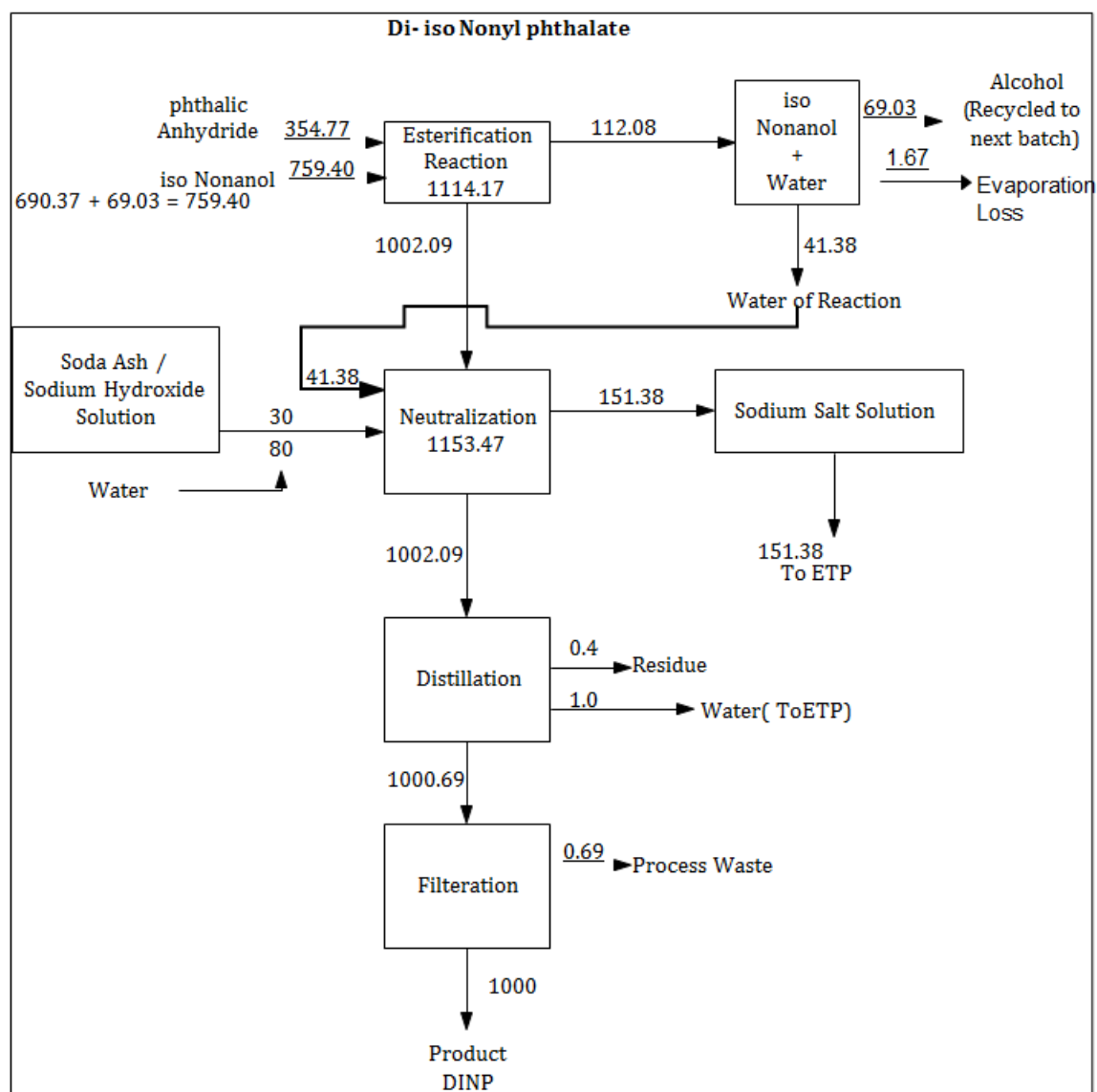
Phthalic Anhydride and iso nonanol in the presence of catalyst are reacted to form Diester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product.

There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Di-isoNonyl Phthalate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/M T	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Phthalic anhydride	354.77	0.35477	354.77	Di-isoNonyl Phthalate	1000.00	1	1000.00	Product
2.	Iso Nonanol	759.40	0.7594	759.40	Alcohol	69.03	0.06903	69.03	Reuse in process
3.	Soda	30.00	0.03	30.00	Distillation	0.40	0.0004	0.40	To

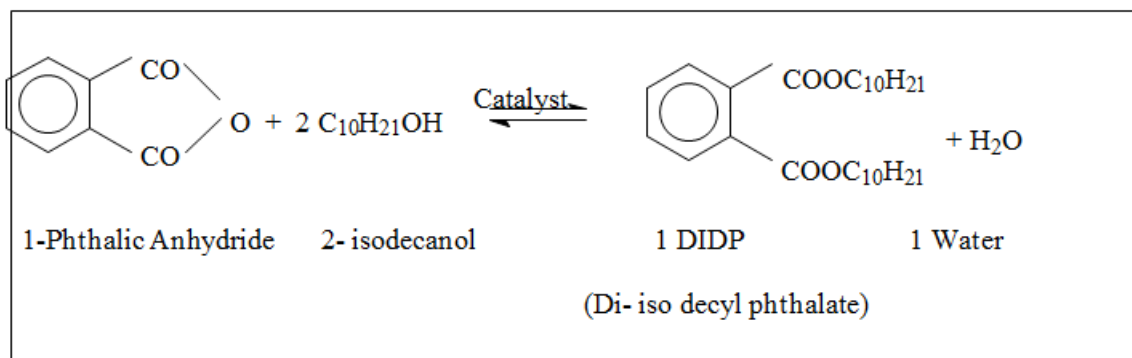
	Ash/NaOH Sol				Residue				CHWIF
4.	Water	80.00	0.08	80.00	Wastewater	152.38	0.152	152.38	To ETP
5.	Recycled water	41.38	0.04138	41.38	Process Waste	0.69	0.00069	0.69	To TSDF
6.					Evaporation loss	1.67	0.00167	1.67	To AC column
7.					water Recycle	41.38	0.04138	41.38	Reuse in proces
	total	1265.55				1265.55			

## 6. Di-isodecyl phthalate

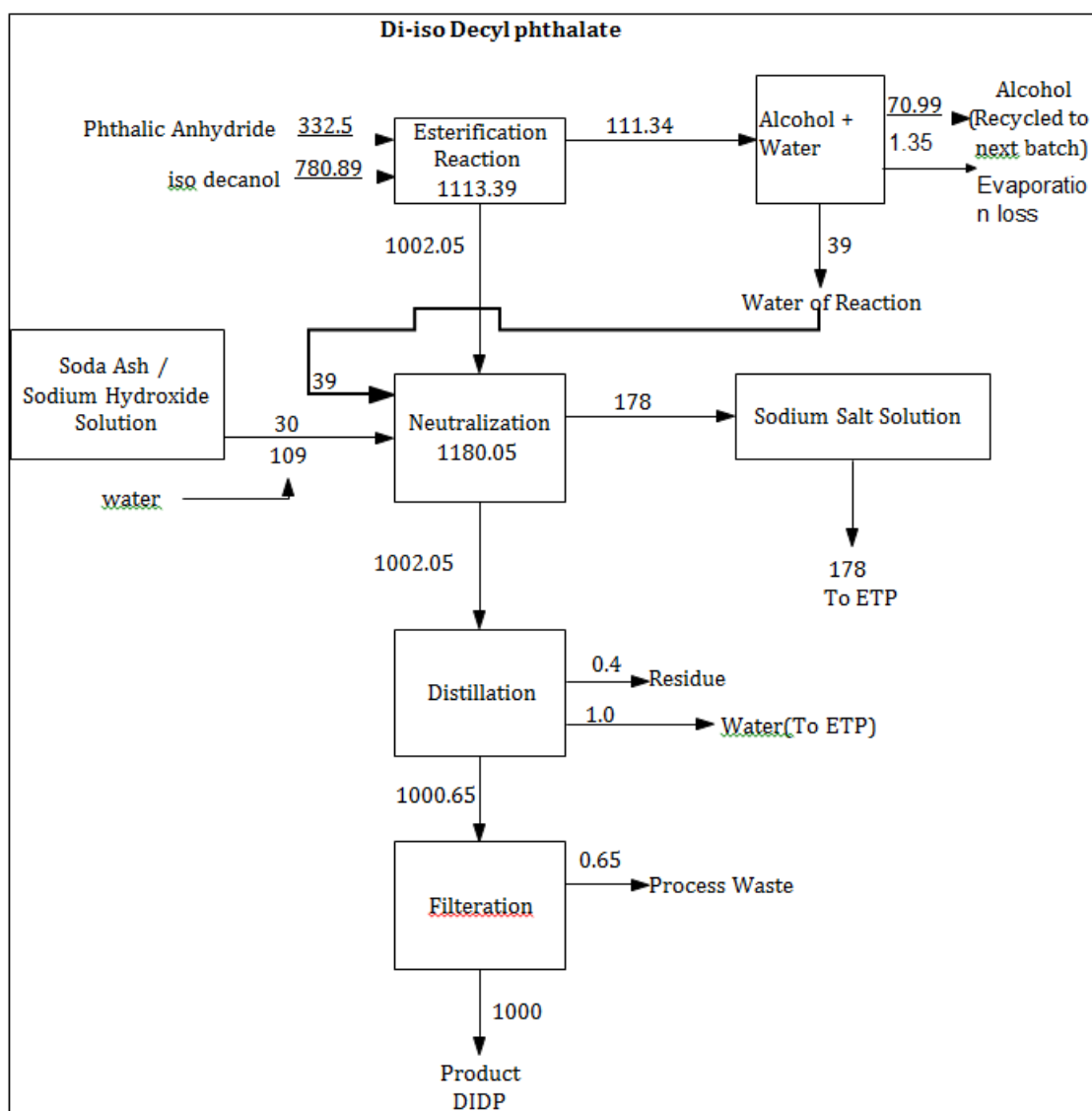
### A. Manufacturing Process

Phthalic Anhydride and iso decanol in the presence of catalyst are reacted to form Diester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product. Then after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Di-isodecyl phthalate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Phthalic anhydride	332.50	0.3325	332.50	Di-isodecyl phthalate	1000.00	1	1000.00	Product
2.	isodecyl Alcohol	780.89	0.78089	780.89	Iso decyl Alcohol Recovery	70.99	0.07099	70.99	Reuse in process
3.	Soda Ash/NaOH Sol	30.00	0.03	30.00	Distillation	0.40	0.0004	0.40	To



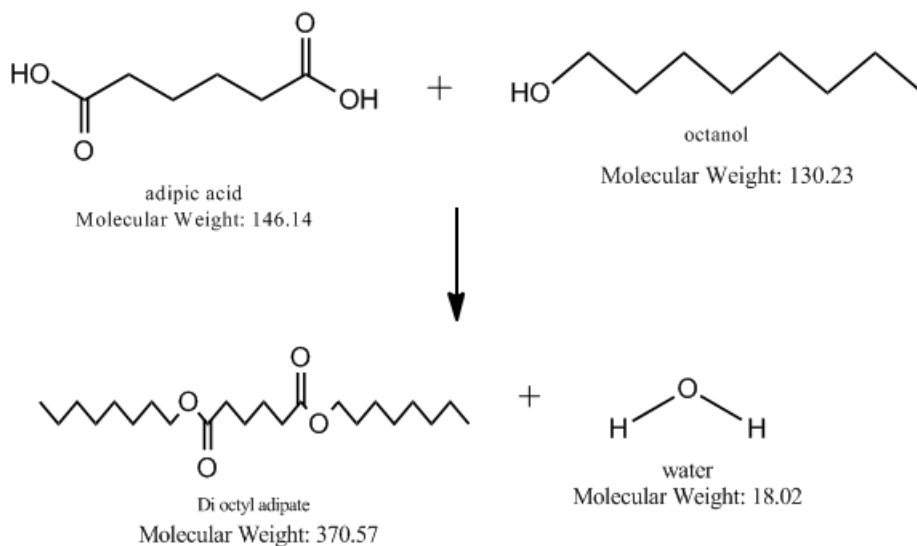
					Residue				CHWIF
4.	Water	109.00	0.109	109.00	Wastewater	179.00	0.179	179.00	To ETP
5.	Recycled water	39.00	0.039	39.00	Process Waste	0.65	0.00065	0.65	To TSDF
6.					water Recycle	39.00	0.039	39.00	Reuse in process
7.					Evaporation loss	1.35	0.00135	1.35	To AC column
	Total	1291.39				1291.39			

## 7. Di Octyl Adipate

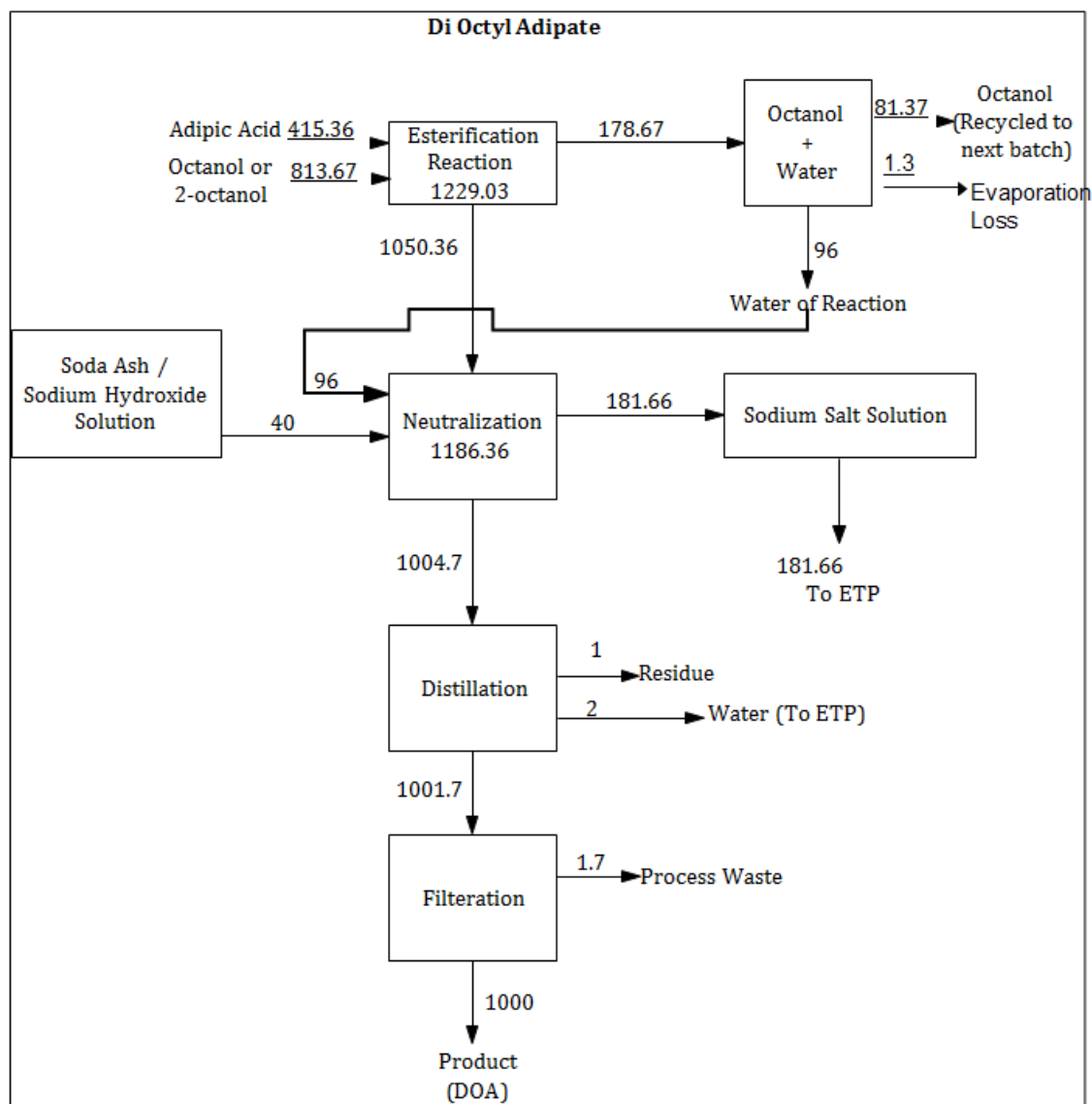
### A. Manufacturing Process

Adipic Acid and Octanol in the presence of catalyst are reacted to form Diester at 110 to 120 °C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Di Octyl Adipate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Adipic Acid	415.36	0.41536	415.36	Di Octyl Adipate	1000.00	1	1000.00	Product
2.	Octanol	813.67	0.81367	813.67	Octanol recovery	81.37	0.08137	81.37	Resue in proces

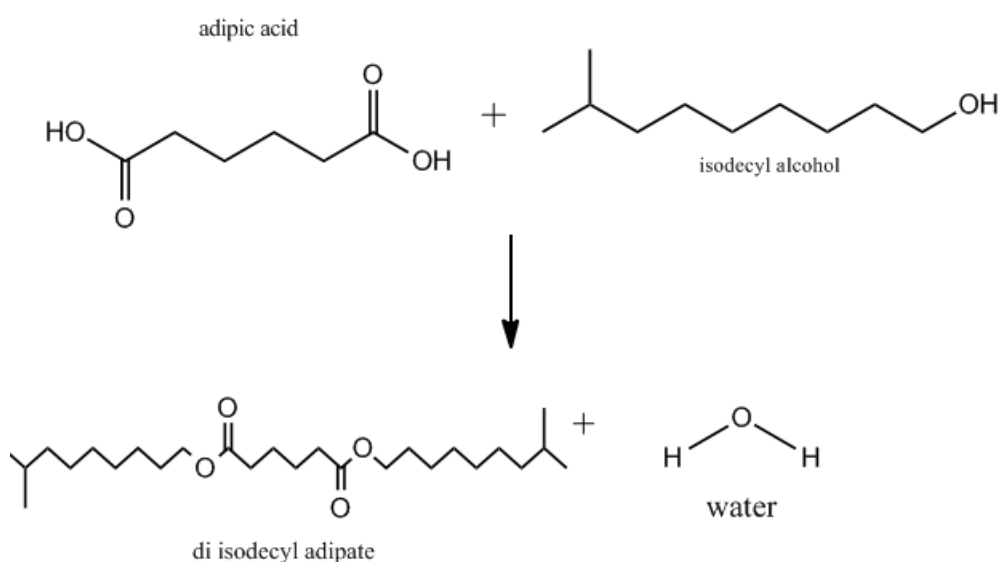
3.	Soda Ash/NaOH Sol	40.00	0.04	40.00	Distillation Residue	1.00	0.001	1.00	To CHWIF
4.	Recycled water	96.00	0.096	96.00	Wastewater	183.66	0.18366	183.66	To ETP
5.					Process Waste	1.70	0.0017	1.70	To TSDF
6.					water Recycle	96.00	0.096	96.00	Reuse in process
7.					Evaporation Loss	1.30	0.0013	1.30	To AC column
		1365.03				1365.03			

## 8. Di-isodecyl Adipate

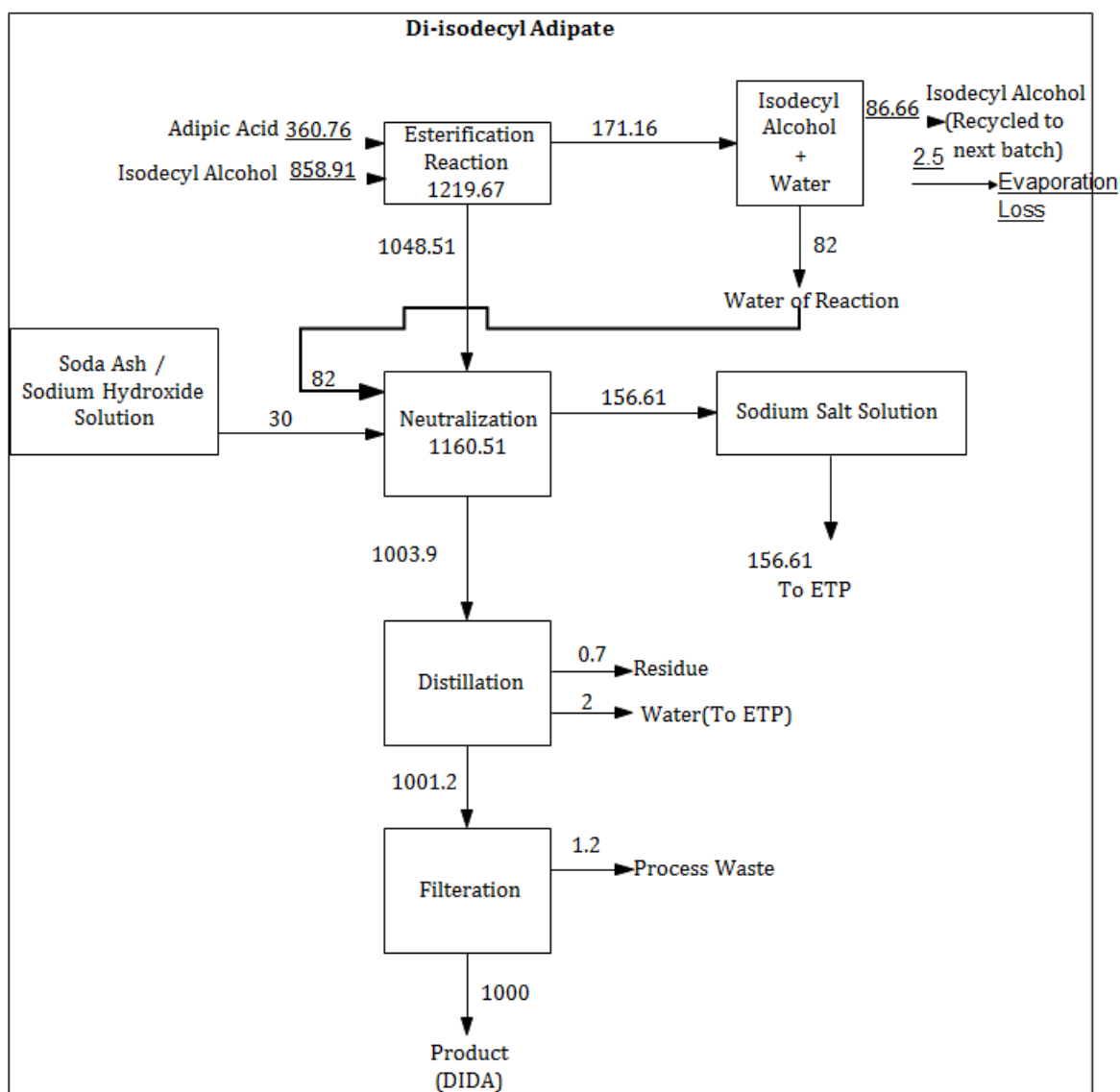
### A. Manufacturing Process

Adipic Acid and Isodecyl Alcohol in the presence of catalyst are reacted to form Diester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Di-isodecyl Adipate	1000 MT/Month	
Batch Size	5	MT
Working days per Month	25	days
No. of Batches per month	200	Nos.
Batch time	16	Hrs.
Reactor size	6.5	KL
No of reactors	6	--

Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
Adipic Acid	360.76	0.36	360.76	Di-isodecyl Adipate	1000.00	1	1000.00	Product
isodecyl Alcohol	858.91	0.85	858.91	Isodecyl Alcohol recovery	86.66	0.08666	86.66	Reuse in process
Soda	30.00	0.03	30.00	Distillation	0.70	0.0007	0.70	To

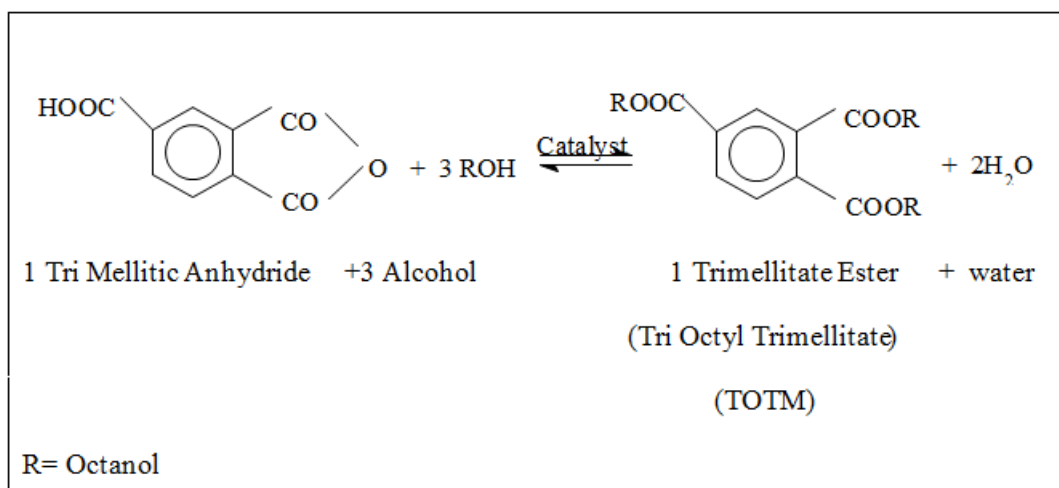
Ash/NaOH Sol				Residue				CHWIF
Recycled water	82.00	0.082	82.00	Wastewater	158.61	0.15861	158.61	To ETP
				Process Waste	1.20	0.0012	1.20	TO TSDF
				water recycle	82.00	0.082	82.00	Reuse in process
				Evaporation loss	2.50	0.0025	2.50	To AC column
	1331.67				1331.67			

## 9. Tri Octyl Trimellitate

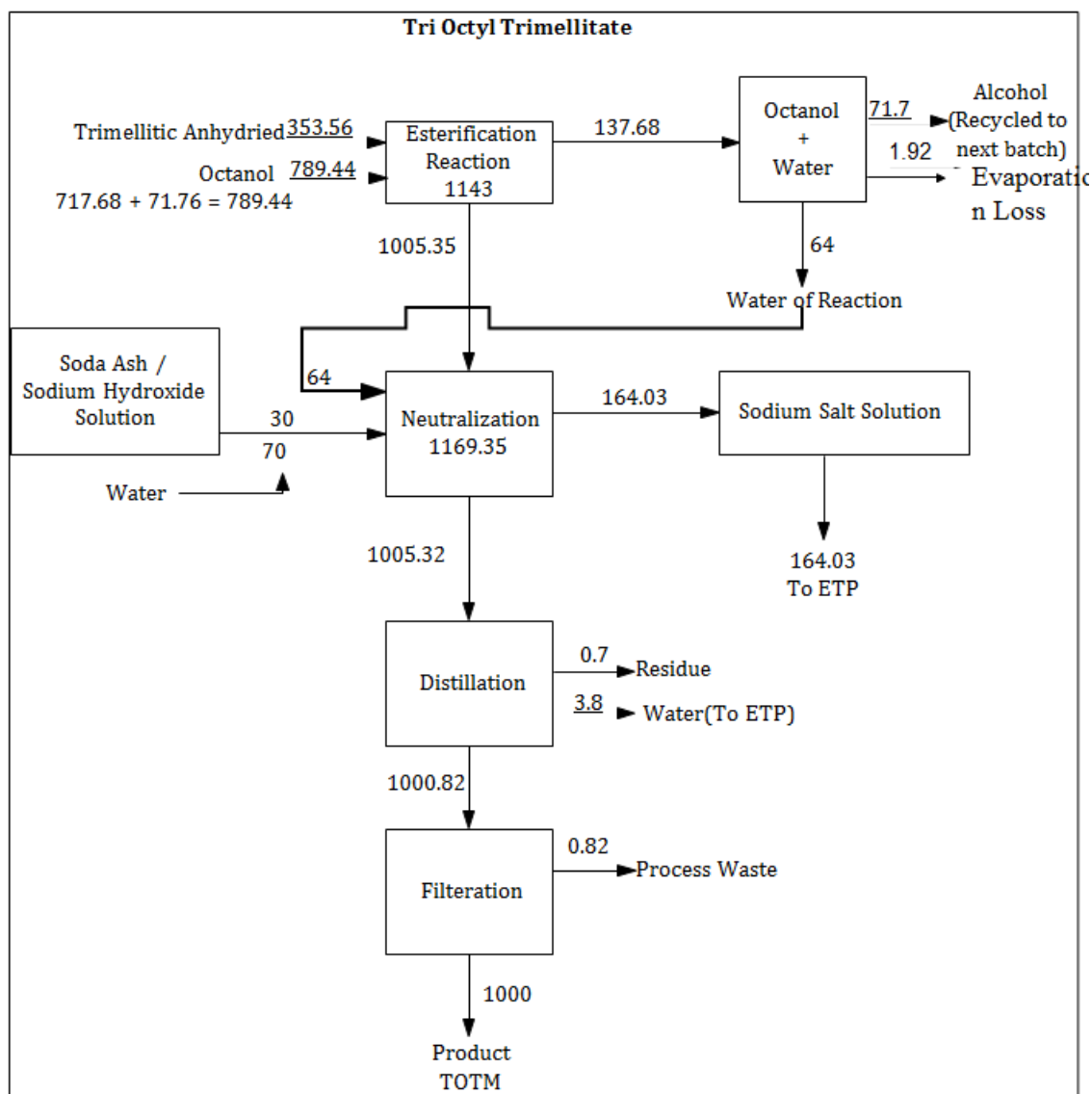
### A. Manufacturing Process

Tri mellitic anhydride and Octanol in presence of catalyst are reacted to form Triester at 140 to 150°C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is refused in the next batch.

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Tri Octyl Trimellitate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Trimellitic Anhydried	353.56	0.35356	353.56	Tri Octyl Trimellitate	1000.00	1	1000.00	Product
2.	Octanol	789.44	0.78944	789.44	Alcohol Recovery	71.76	0.07176	71.76	Reuse in process

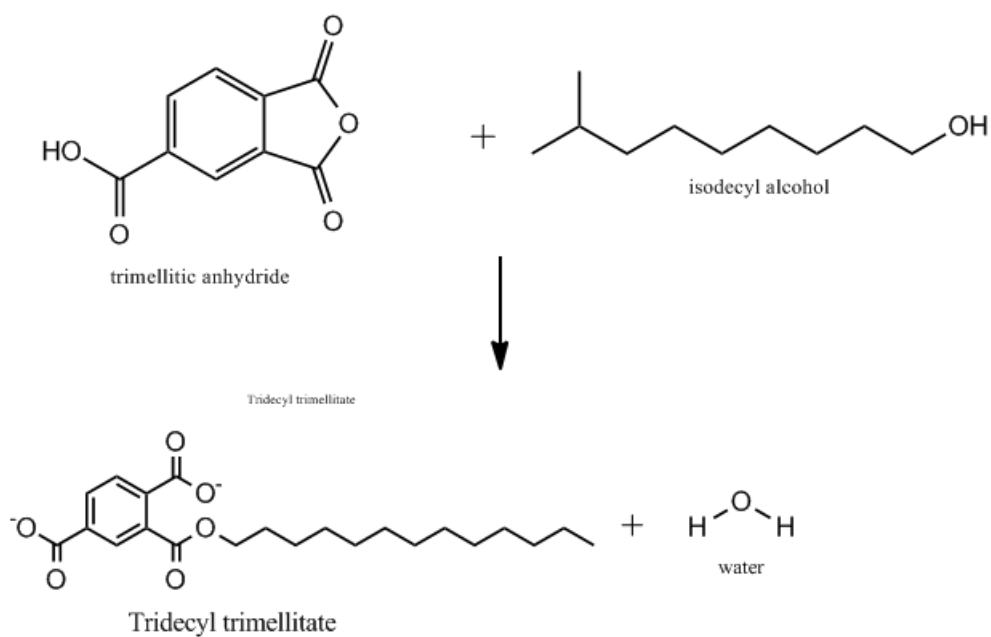
									s
3.	Soda Ash/NaOH Sol	30.00	0.03	30.00	Distillation Residue	0.70	0.0007	0.70	To CHWIF
4.	Water	70.00	0.07	70.00	Wastewater	167.83	0.16783	167.83	To ETP
5.	recycled water	64.00	0.064	64.00	Process Waste	0.82	0.00082	0.82	To TSDF
6.					water Recycle	64.00	0.064	64.00	Reuse in processes
7.					Evaporation Loss	1.92	0.00192	1.92	To AC column
	Total	1307.00				1307.03			

## 10. Tri isodecyl Trimellitate

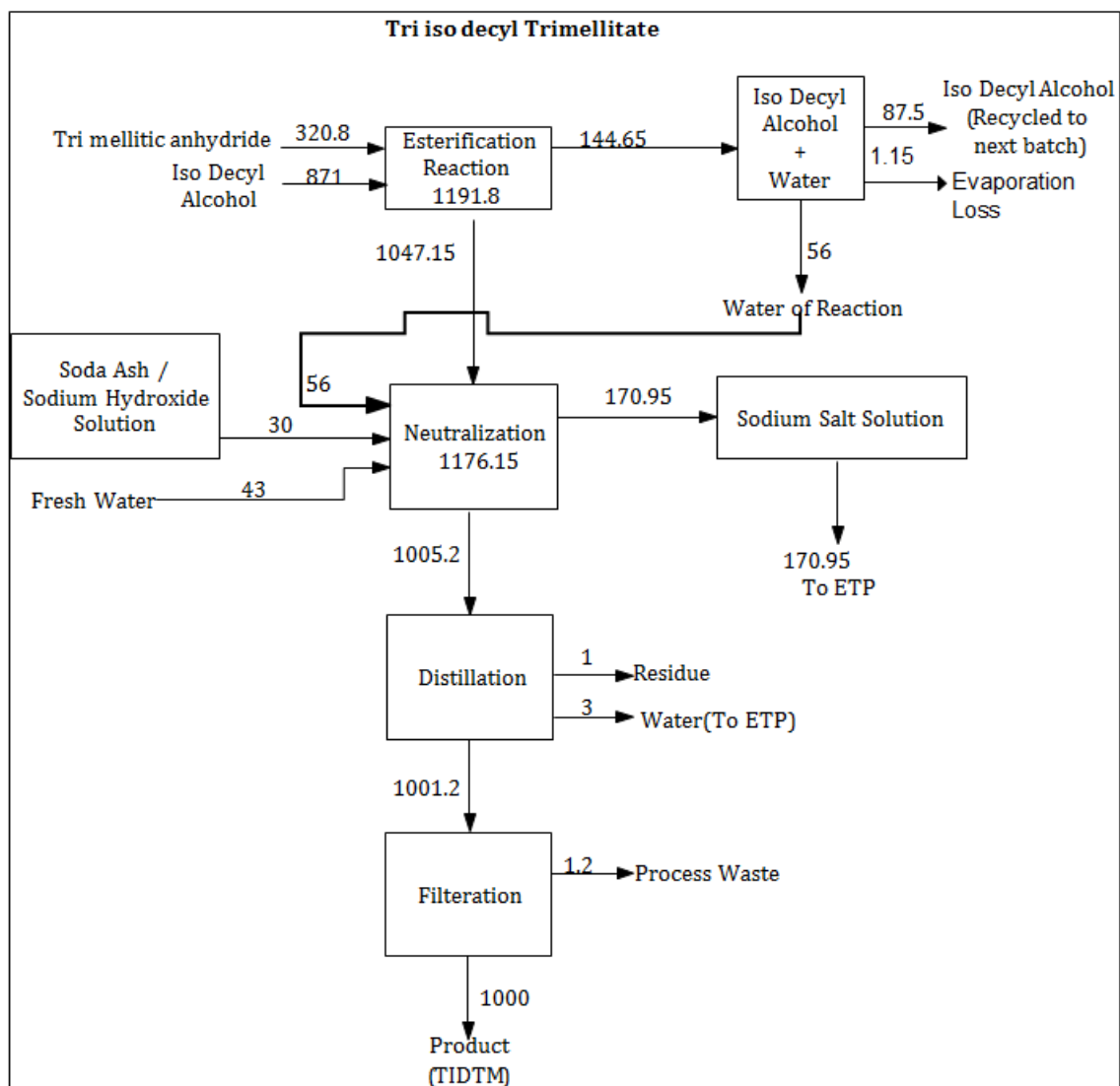
### A. Manufacturing Process

Tri mellitic anhydride and iso decyl alcohol in presence of catalyst are reacted to form Triester at 140 to 150 °C. Crude Ester is neutralized with alkali to get neutral product. There after it is purified by distillation and finally filtered to get the final product. Recovered alcohol which is generated during the reaction process is reused in the next batch.

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Tri isodecyl Trimellitate		1000 MT/Month	
Batch Size	5	MT	
Working days per Month	25	days	
No. of Batches per month	200	Nos.	
Batch time	16	Hrs.	
Reactor size	6.5	KL	
No of reactors	6	--	

Sr. No.	Input	Kg in mass balance	MT/M T	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Trimellitic Anhydried	320.80	0.3208	320.80	Tri isodecyl Trimellitate	1000.00	1	1000.00	Product
2.	Isodecyl Alcohol	871.00	0.871	871.00		87.50	0.0875	87.50	Reuse in



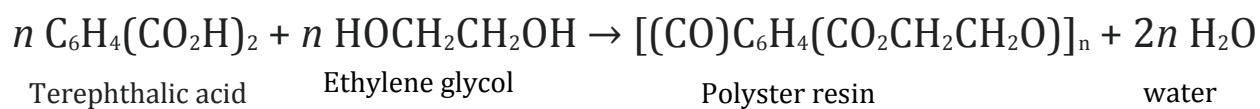
									process
3.	Soda Ash/NaOH Sol	30.00	0.03	30.00	Distillation Residue	1.00	0.001	1.00	To CHWIF
4.	Water	43.00	0.043	43.00	Wastewater	173.95	0.17395	173.95	To ETP
5.	recycled water	56	0.056	56.00	Process Waste	1.20	0.0012	1.20	To TSDF
6.					water Recycle	56.00	0.056	56.00	Reuse in process
7.					Evaporation loss	1.15	0.00115	1.15	To AC column
	Total	1320.80				1320.80			

## 11. Polyester Resin

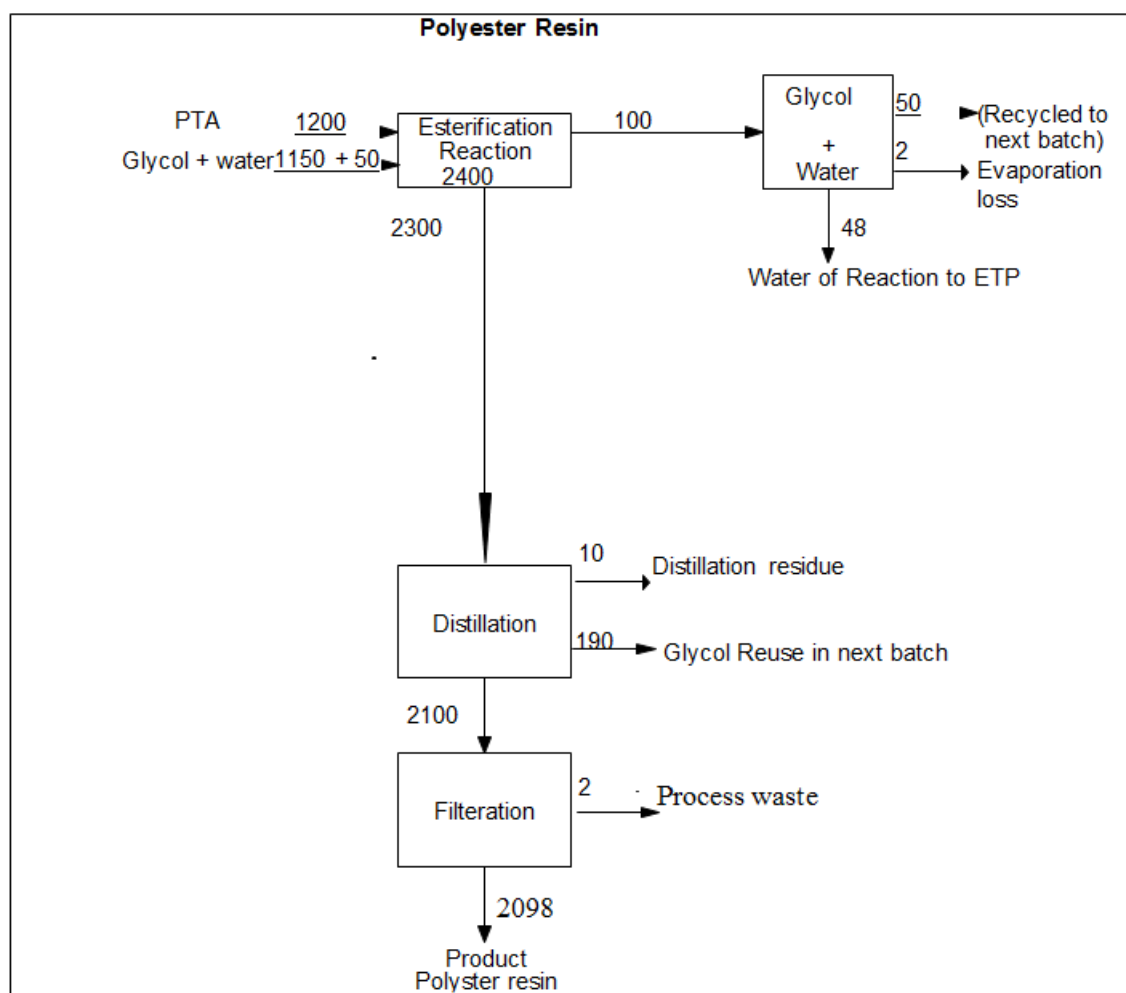
### A. Manufacturing Process

Polycondensation reaction in the production of polyester resin the terephthalic acid process, esterification of ethylene glycol and terephthalic acid is conducted directly at moderate pressure (2.7–5.5 bar) and high temperature (220–260 °C). Water is eliminated in the reaction, and it is also continuously removed by distillation

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

Polyester resin		300MT/Month	
Batch Size	2	MT	
Working days per Month	25	days	
No. of Batches per month	150	Nos.	
Batch time	16	Hrs.	
Reactor size	2.5	KL	
No of reactors	5	--	

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/M T	MT/M	Remarks
1.	terephthalic acid	1200	1.2	171.59	Polyester resin	2098	2.098	300	Product
2.	Glycol	1150	1.15	164.44	Distillation residue	10	0.01	1.42	To CHWIF
3.	water	50	0.05	7.14	Wastewater	48	0.048	6.86	To ETP
4.					recovered Glycol	240	0.24	34.31	Reuse in process

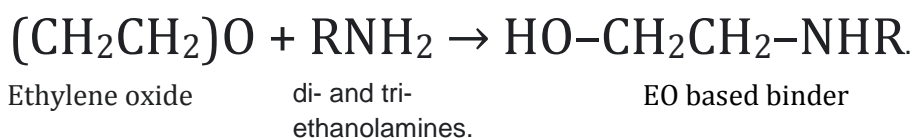
5.					Process waste	2	0.002	0.28	
6.					Evaporation loss	2	0.002	0.28	To AC column
		2400				2400			

## 12. EO base Binder

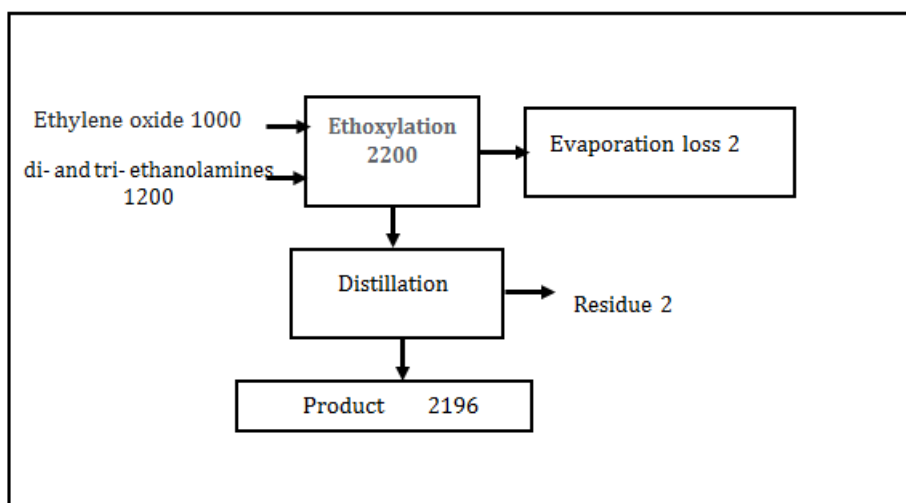
### A. Manufacturing Process

Ethylene oxide reacts with ammonia forming a mixture of mono-, di- and tri- ethanolamines. The reaction is stimulated by adding a small amount of water. Similarly proceed the reactions with primary and secondary amines

### B. Reaction Chemistry



### C. Process Flow Diagram



### D. Summary of Mass Balance

EO base Binder				200 MT/Month	
Batch Size				5	MT
Working days per Month				25	days
No. of Batches per month				40	Nos.
Batch time				15	Hrs.
Reactor size				6.5	KL
No of reactors				2	--

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
---------	-------	--------------------	-------	------	--------	--------------------	-------	------	---------

1.	Ethylene oxide	1000	1	91.07	EO base Binder.	2196	2.196	200	Product
2.	di- and tri- ethanolamines	1200	1.2	109.28	Evaporation loss	2	0.002		To AC column
3.					Distillation residue	2	0.002		To CHWIF
	Total	2200				2200			

### 13. Isoper L (Isomer of paraffin).

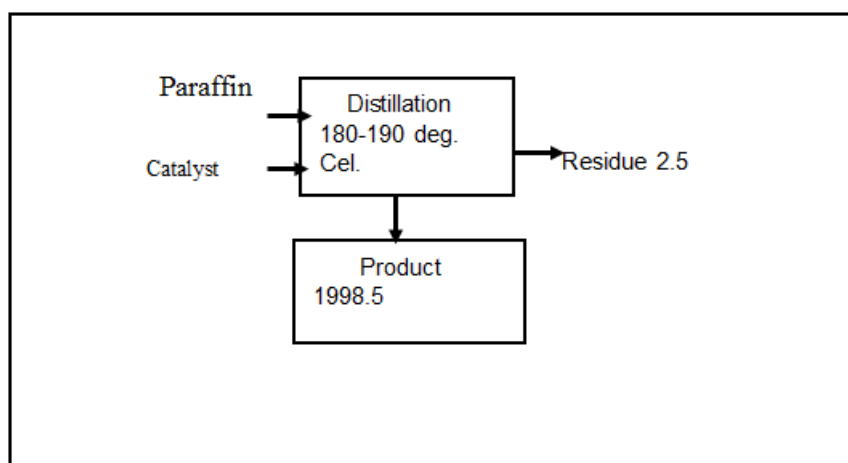
#### A. Manufacturing Process

In Present of catalyst normal paraffin continue distillation at 180 to 190 deg. Cel. condensed vapour are collect as a product.

#### B. Reaction Chemistry



#### C. Process Flow Diagram



#### D. Summary of Mass Balance

Sr. No.	Input	Kg in mass balance	MT/MT	MT/M	Output	Kg in mass balance	MT/MT	MT/M	Remarks
1.	Paraffin	1900	1.9	475.5944931	Isoper L	1997.5	1.9975	500	Product
2.	Catalyst	100	0.1	25.03128911	Distillation residue	2.5	0.0025	0.625782228	To CHWIF
	total	2000				2000			

### 14. Pigment emulsion

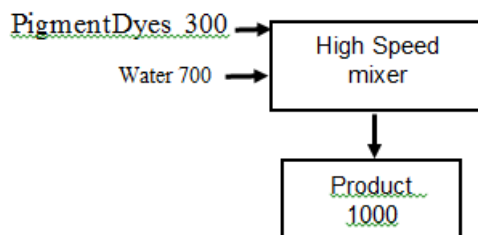
#### A. Manufacturing Process

Formulation between Pigment dyes and water give pigment emulsion

## B. Reaction Chemistry

Pigment Dyes + water → pigment emulsion

## C. Process Flow Diagram



## D. Summary of Mass Balance

Sr. No.	Input	Kg in mass balance	MT/M T	MT/M	Output	Kg in mass balance	MT/M T	MT/M	Remarks
1.	Dyes	300	0.3	45	Pigment emulsion	1000	1	150	Product
2.	water	700	0.7	105					
	Total	1000				1000			

## **ANNEXURE – 5**

### **DETAILS OF SOLID/HAZARDOUS WASTE MANAGEMENT**

There will be two types of solid wastes generated from the project.

#### **(a) Non Hazardous Solid Waste**

The types of Non-Hazardous waste generated are as below:

##### **(1) Municipal Solid Waste**

The municipal solid waste includes the paper wastes from office as well as other domestic wastes.

Paper wastes would be sold to scrap vendors, while other wastes would be disposed-off in a proper manner.

STP Sludge 9 MT/A will generated and will be used as manure in gardening

#### **(b) Hazardous Solid Waste**

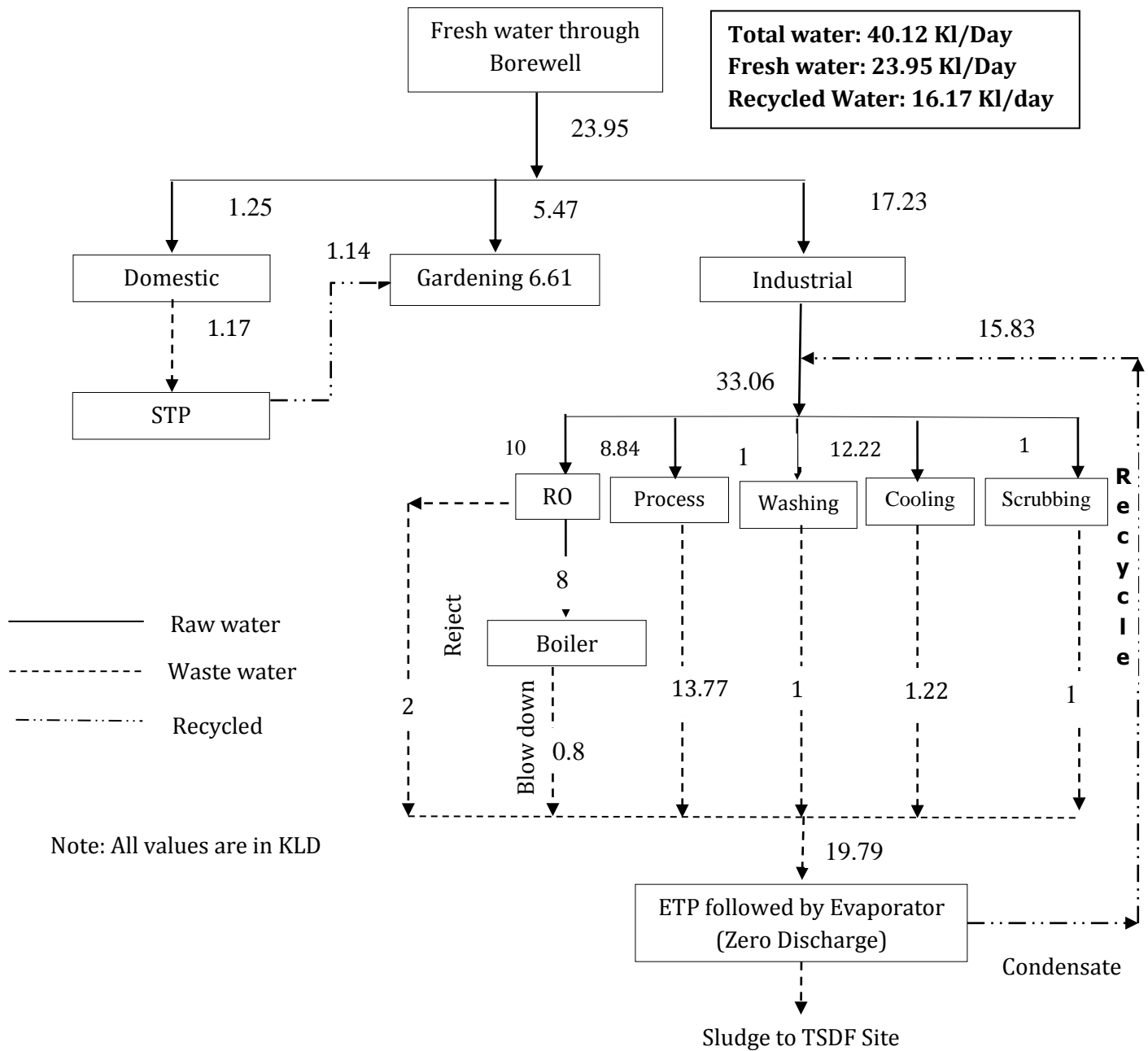
The details different Hazardous wastes generated and its disposal is given in the table below.

<b>Sr. No.</b>	<b>Description</b>	<b>Category</b>	<b>Quantity (MT/Annum)</b>	<b>Mode of Disposal</b>
<b>1.</b>	ETP Sludge	35.3	112.68	Collection, storage and disposal at approved TSDF site
<b>2.</b>	Evaporation Residue	35.3	112.68	Collection, storage and disposal at approved TSDF site
<b>3.</b>	Distillation residue	23.2	38.64	Collection, storage and disposal at approved CHWIF site
<b>4.</b>	Process waste	23.1	23.82	Collection, storage and disposal at approved TSDF site
<b>5.</b>	Alcohol recovery	23.2	2301	Collection, storage and reuse within process
<b>6.</b>	Used Oil	5.1	0.05	Collection, storage and used within premises as a lubricant / sold to registered recycler

<b>7.</b>	Discarded Plastic Bags /Barrels	33.1	82.23	Collection, storage & sold to authorized vendor
<b>8.</b>	Spent Carbon	35.1	163.68	Collection, storage and disposal at approved TSDF site

## ANNEXURE – 6

### WATER BALANCE DIAGRAM





## **ANNEXURE – 7**

### **DETAILS OF WASTEWATER MANAGEMENT**

#### **FOR DOMESTIC WASTEWATER**

- Total domestic wastewater (1.17 kl/day) will be generated which will be treated in STP.

#### **FOR INDUSTRIAL WASTEWATER**

##### **Effluent Treatment Scheme:**

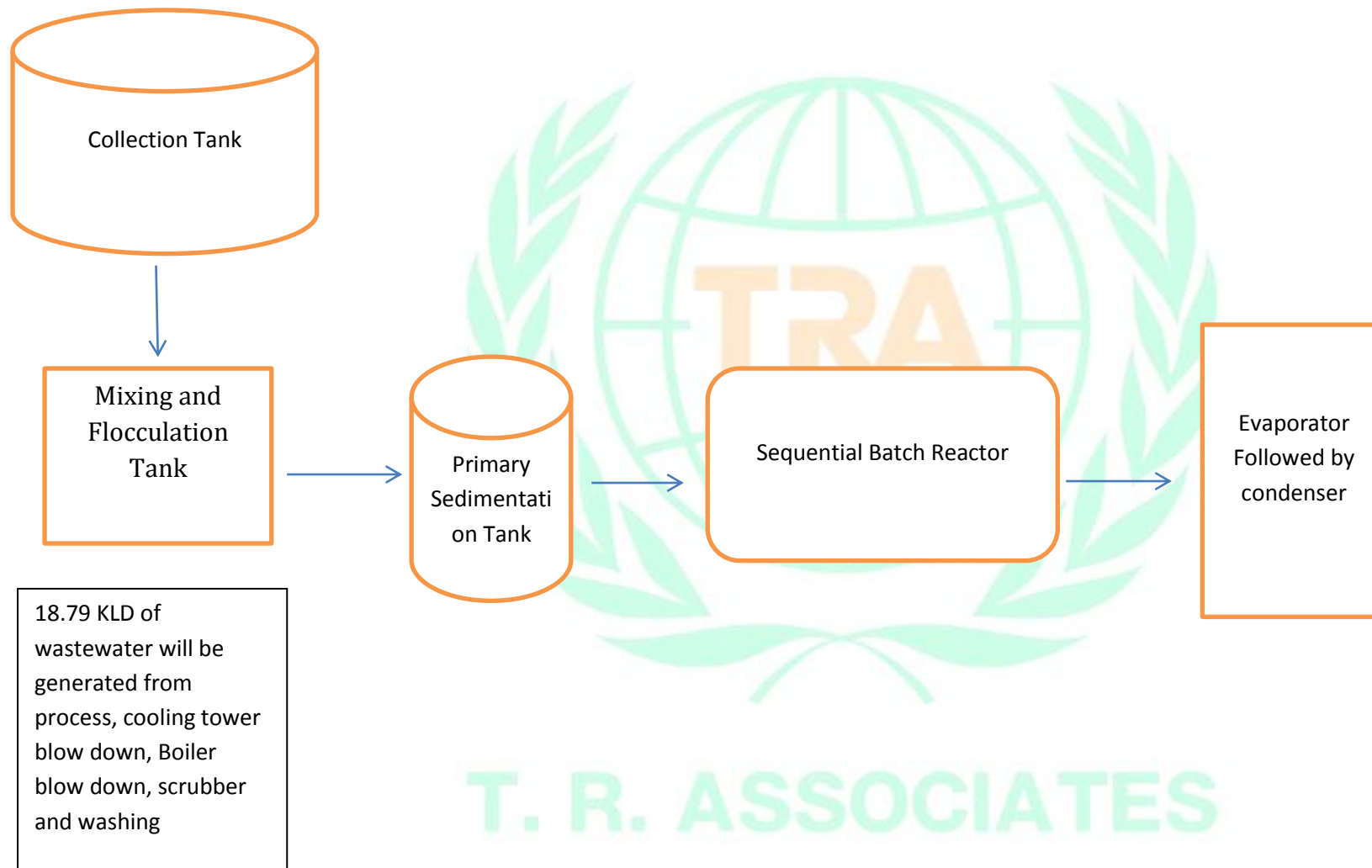
- Industrial wastewater will be generated from process, cooling tower blow-down, & washing.
  - First treatment which will be given is Mixing and Flocculation followed by Primary Settling Tank.
  - Then water will be given secondary treatment in Sequential Batch Reactor where it would be aerated, settled and decanted and final treatment would be Evaporator followed by condenser.
  - ETP sludge along with evaporation salt from evaporator will be disposed of at TSDF site.
- Thus, unit will maintain Zero liquid Discharge.

**ETP UNIT DETAILS**

Name of the Units	Capacity	No. of Units
Collection Tank	20.0 kl	2
Mixing and Flocculation Tank	8.0 kl	1
PST	8.0 kl	1
SBR	8.0 kl	1
Evaporator followed by Condenser	1.2 m <sup>3</sup> /hr	1



**T. R. ASSOCIATES**

**SCHEMATIC FLOW DIAGRAM OF ETP**

## **ANNEXURE – 8**

### **DETAILS OF FLUE GAS STACK**

Sr. No.	Stack attached to	Height of the stack	Fuel & its Consumption	APC System	Expected Pollutant	GPCB Limit
1	Steam Boiler (2 TPH)	30 m	Briquettes (6.87 MT/day)	Multicyclone Dust Collector followed by Bag filter followed by water Scrubber	SPM SO <sub>2</sub> NO <sub>2</sub>	SPM ≤ 150 mg/Nm <sup>3</sup> SO <sub>2</sub> ≤ 100 ppm NO <sub>2</sub> ≤ 50 ppm
2	TFH (1000000 Kcal/hr)	30 m	Briquettes (5 MT/day)	Multicyclone Dust Collector followed by Bag filter followed by water Scrubber	SPM SO <sub>2</sub> NO <sub>2</sub>	SPM ≤ 150 mg/Nm <sup>3</sup> SO <sub>2</sub> ≤ 100 ppm NO <sub>2</sub> ≤ 50 ppm
3	D G Set * (1 X125 KVA)	12 m	25 Lit/Hr.	Stack height 12 m	HC CO	As per GPCB Norms

*\*DG set would be use only in power cut situation*

### **DETAILS OF PROCESS GAS STACK**

Sr. No.	Stack attached to	Height of the stack In meter	APC System	Expected Pollutant	GPCB Limit
1	3 reactors of Group A product	11	Activated Carbon Column	VOCs	As per GPCB Norms
2	3 reactors of Group A product	11	Activated Carbon Column	VOCs	As per GPCB Norms
3	2 reactors of Group C product	11	Activated Carbon Column	VOCs	As per GPCB Norms
4	2 reactors of Group B product	11	Activated Carbon Column	VOCs	As per GPCB Norms

**Note:** There are total 6 reactors of 6.5 KL capacity for Group A product, Total 2 reactors of 6.5 KL capacity for Group C product and Total 2 reactors of 2.5 KL capacity for Group B product.

**ANNEXURE – 9****RAW MATERIAL & PRODUCT STORAGE DETAILS**

Raw material	MT/M	MT/D	State	storage type	Capacity, MT	Round off Unit	Inventory days	Max storage
Adipic Acid	415.36	16.61	Solid	Bags	0.025	1994	3	49.85
Butanol / Iso Butanol	586.77	23.47	Liquid	Tank	40	1	1	40
di- and tri-ethanolamines	109.29	4.371	Liquid	Drum	0.22	60	3	13.2
Dyes	45.00	1.8	Solid	Bags	0.025	216	3	5.4
Ethyl Alcohol*	580.00	23.2	Liquid	Tank	100	2	8	200
Ethylene oxide*	91.07	3.64	Gas	Bullet	20	2	5	20
Glycol*	164.44	6.57	Liquid	Drum	0.22	90	3	19.8
Iso Nonanol	759.40	30.37	Liquid	Tank	40	1	1	40
isodecyl Alcohol	871.00	34.84	Liquid	Tank	40	1	1	40
Methyl alcohol*	506.05	20.24	Liquid	Tank	40	1	2	40
Octanol / Iso octanol	813.67	32.54	Liquid	Tank	40	1	1	40
Paraffin*	475.59	19.02	Liquid	Drum	0.22	260	3	57.2
Phthalic anhydride*	820.00	32.8	Solid	Bags	0.025	3936	3	98.4
Soda Ash/NaOH Sol	40.00	1.6	Liquid	Tank	10	1	6	10
terephthalic acid	171.59	6.86	Solid	Bags	0.025	824	3	20.6
Trimellitic Anhydride	353.56	14.14	Solid	Bags	0.025	1698	3	42.45

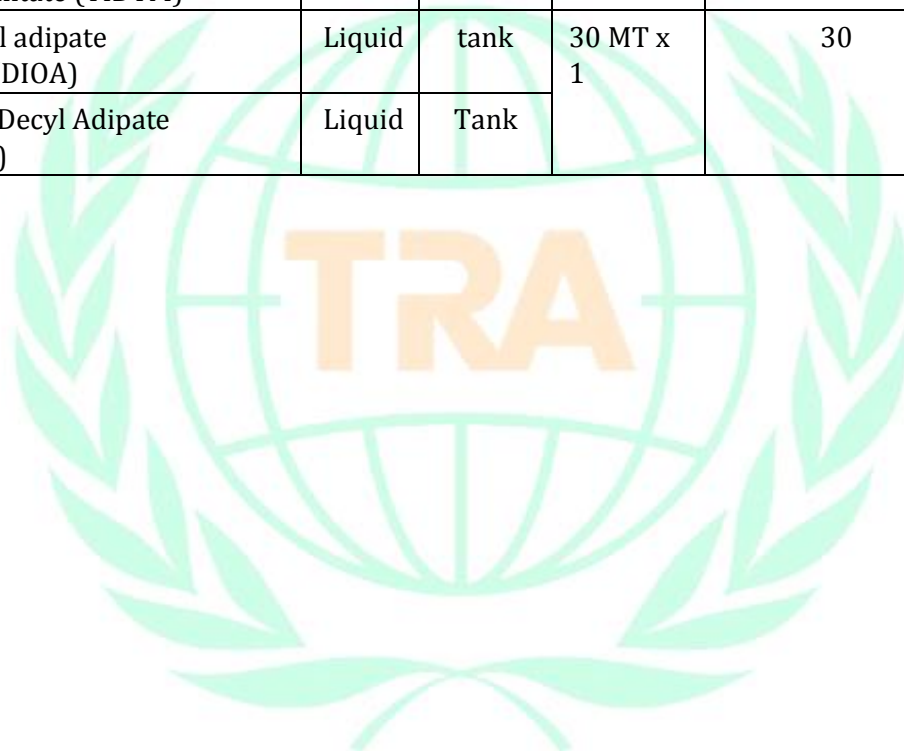
**Note:** \* The stated chemicals are considered as Hazardous Chemicals as per the Manufacture, Storage & Import of Hazardous Chemicals (MSIHC) Rules 1989.

**PRODUCT STORAGE DETAILS**

Sr. No.	Name of product	State	Storage	Capacity	Max. storage capacity at site (Proposed)	MOC
<b>PRODUCT STORAGE</b>						
1.	Dimethyl Phthalate	Liquid	tank	30MT x 1	30MT	SS 304

*Annexures*

2.	Diethyl Phthalate	Liquid	tank	50 MT x 1	50	SS 304
3.	Di butyl Phthalate /Di Isobutyl Phthalate	Liquid	tank	30MT x 1	30	MS
4.	Di Octyl Phthalate/ Di Iso Octyl Phthalate	Liquid	tank			
5.	Di Iso Nonyl Phthalate	Liquid	tank			
6.	Di Iso Decyl Phthalate	Liquid	tank			
7.	Tri Octyl Tri Mellitate (TOTM)	Liquid	tank	30MT x 1	30	MS
8.	Tri-Isodecyl- Trimellitate (TIDTM)	Liquid	Tank			
9.	Dioctyl adipate (DOA/DIOA)	Liquid	tank	30 MT x 1	30	MS
10.	Di Iso Decyl Adipate (DIDA)	Liquid	Tank			

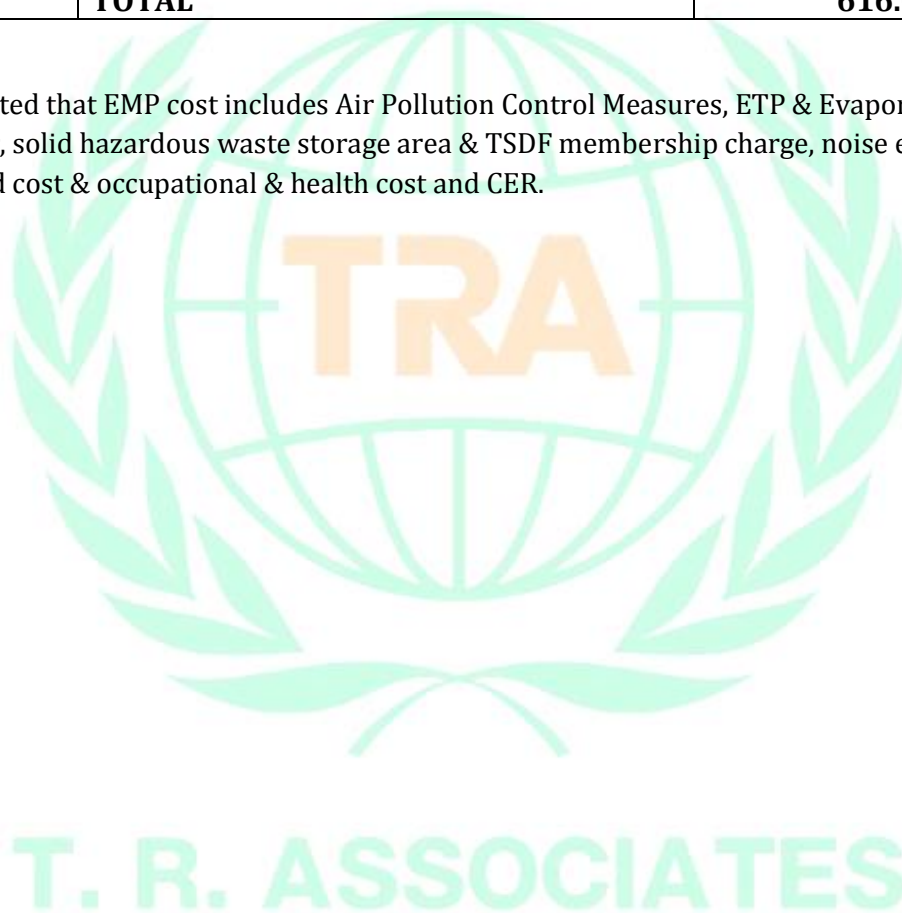


**T. R. ASSOCIATES**

**ANNEXURE – 10****PROJECT COST**

<b>Sr. No.</b>	<b>Details</b>	<b>Cost in Lakhs</b>
1	Land	3.5
2	Building	100
3	Plant & machineries	400
4	Environment & management plant	112.549
	<b>TOTAL</b>	<b>616.049</b>

\*It may be noted that EMP cost includes Air Pollution Control Measures, ETP & Evaporator followed by condenser, solid hazardous waste storage area & TSDF membership charge, noise enclosures & Risk & hazard cost & occupational & health cost and CER.



## **ANNEXURE – 11**

### **LIST OF UTILITIES**

PROPOSED UTILITIES				
Sr. No.	Name of The Utilities	Capacity	MOC	Nos.
1.	TFH	10 Lac Kcal	MS	1
2.	Cooling Tower	300 TR	FRP	1
3.	D. G. Set	125 KVA	--	1
4.	Compressor	5 HP	MS	1
5.	Steam Boiler	2 TPH	MS	1

#### DETAILS OF PROPOSED EQUIPMENT AND MACHINERIES

Sr. No.	Name of the equipment	Capacity KL	MOC	Nos.
1	Reactor (Reaction)	6.5	SS 316	8
		2.5	SS 316	5
2	Column (packed) with jacketed bottom	Dia H T 450 × 15000 × 6	SS 316	1
3	Condenser (shell & tube)	30m <sup>2</sup>	SS 316	2
4	Condenser (shell & tube)	20m <sup>2</sup>	SS 316	2
5	Receiver (Water)	7m <sup>3</sup>	SS 304	1
6	Aqua Ethanol Storage Tank	10m <sup>3</sup>	SS 304	1
7	Recovered Ethanol storage Tank	15m <sup>3</sup>	SS 304	1
8	Fresh SDS Storage Tank	15m <sup>3</sup>	SS 304	1
9	Fresh Absolute Ethanol Storage Tank	10m <sup>3</sup>	SS 304	1
10	Reactor (Neutralizer)	20m <sup>3</sup>	SS 304	2
11	C/E Storage Tank	20m <sup>3</sup>	SS 304	1
12	Heat Exchanger (Pre heater)	10m <sup>2</sup>	SS 304	1
13	Stripping Column (packed) with jacketed bottom	Dia H T 450 × 12000 × 6	SS 316	1
14	Dehydrating Column (packed)	Dia H T 300 × 2000 × 6	SS 316	1
15	Receiver (Condensate)	2m <sup>3</sup>	SS 304	1



## *Annexures*

16	Receiver (Product)	2m <sup>3</sup>	SS 304	1
17	Reactor (Carbon Treatment)	8m <sup>3</sup>	SS 304	2
18	Filter Press	5 MT/ hour	SS 304	1
19	Intermediate Storage Tank for Filter Product	8m <sup>3</sup>	SS 304	3
20	Reactor (Soda ash solution preparation)	3m <sup>3</sup>	SS 304	1
21	Wash water Storage Tank	2m <sup>3</sup>	SS 304	1



**T. R. ASSOCIATES**

**ANNEXURE – 12**

**LAND DOCUMENTS**

**Land documents like Dastavej copy & NA permission application are attached herewith.**



**T. R. ASSOCIATES**

**ANNEXURE - 13****Undertaking****Undertaking**

CIN NO. AAV-6982

Date: 17/09/2021

To,

Director and Member Secretary,  
Industry-3  
Ministry of Environment, Forest & Climate Change,  
3<sup>rd</sup> Floor, Vayu Wing, Indira Paryavaran Bhavan,  
Jor Bagh Road, Ali Ganj,  
New Delhi - 110 003.

**Subject:** Undertaking stated that unit does not fall into small unit criteria given in EIA notification and its amendments

Respected Sir,

It is requested to note that M/s Keshari Unipolypro LLP, proposed project want to manufacture different types of resin mentioned in Form-1 and for that unit have to obtain Environmental clearance from MoEF&CC.

In connection with above stated subject matter, it is noted that unit does not fall into small unit criteria as per the condition given in EIA notification, 2006 and their amendments. Also we have given condition and their compliance for your ready reference in following table:

Sr. No	Condition	Compliance
1	Water Consumption less than 25 Kl/day	Unit water consumption will be 23.95. Hence this condition complied.
2	Fuel Consumption less than 25 MT/day	Unit fuel consumption will be 11.87 MT/day Hence this condition complied.
3	Not covered in the category of MAH Units as per the MSIHC Rules, 1989	Covered in the category of MAH Units as per the MSIHC Rules, 1989, schedule 2 Ethylene oxide Threshold Storage Quantity is more than 5 MT (i.e. 20 MT of Ethylene oxide) Hence this condition not complied.

As per above table condition no.3 is not complied, unit will store Ethylene oxide 20 MT which is more than 5 MT as per threshold storage quantity mentioned in MAH category of MSIHC rules, 1989.

As per above stated fact; we are giving undertaking that our unit is not falling into small unit criteria, However proposed project fall into category A of EIA notification, 2006, Hence unit have to obtain EC from MoEF&CC.

Thanking You.

Yours truly,

**KESHARI UNIPOLYPRO LLP.**

704, Nilkanth Heights, Ramsetu Society,  
Ravapar, Morbi (Gujrat) 363 641.

E-mail : keshariunipolypro@gmail.com

Cell : +91 98255 17750

**KESHARI UNIPOLYPRO LLP**  
  
**DESIGNATED PARTNER**



## કલેક્ટર અને જિલ્લા મેજિસ્ટ્રેટની કચેરી, મોરબી

કલેક્ટર કચેરી, જિલ્લા સેવા સદન, શોભેશ્વર રોડ, મોરબી - ૩૬૩૬૪૧

ફોન નંબર : ૨૮૨૨-૨૪૦૭૦૧

ઇ-મેઇલ : collector-mor@gujarat.gov.in

ગુજરાત જમીન મહેસૂલ અધિનિયમ-૧૮૭૯ ની કલમ-૬૫ હેઠળ [ બિનખેતી - બહુહેતુક ઉપયોગ ]

હુકમ નં. 837/28/01/033/2021

તા. 01/07/2021

### વચાવે લીધા :-

- (૧) અરજદારશ્રી કેશરી યુનિપોલીપ્રો એલ.એલ.પી
- રજ. ચાંચાવદરડા, ચાંચાવદરડા, માળીયા-૩૬૩૬૭૦ ની તા.26/05/2021 ની ઓનલાઇન અરજી (નં.32801202101084) તથા સોગંદનામું
- (૨) મુખ્ય જમીન મહેસૂલ કાયદો ૧૮૭૯ ની કલમ - ૪૮, ૬૫, ૬૬ તથા ૬૭
- (૩) ગુજરાત જમીન મહેસૂલ નિયમો, ૧૯૭૨ ના નિયમ ૮૧, ૧૦૦, ૧૦૧, ૧૦૨
- (૪) સરકારશ્રીના મહેસૂલ વિભાગના ઠરાવ નં. બખપ/૧૦૦૬/૪૨૫/ક તા.૦૧/૦૭/૨૦૦૮
- (૫) સરકારશ્રીના મહેસૂલ વિભાગનાં પરિપત્ર ક્રમાંક: બખપ/૧૦૨૦૧૮/૩૨૭/ક તા.૦૮/૦૫/૨૦૧૮
- (૬) સરકારશ્રીના મહેસૂલ વિભાગના ઠરાવ ક્રમાંક: એસ/ટીપી/૧૨૨૦૬/૭૬૬/૧૧/૬.૧ તા.૩૧/૦૩/૨૦૧૧
- (૭) સરકારશ્રીના મહેસૂલ વિભાગના ઠરાવ ક્રમાંક: બખપ/૧૦૨૦૧૮/૪૨૫/ક તા.૦૬/૦૧/૨૦૧૯
- (૮) સરકારશ્રીના મહેસૂલ વિભાગનાં પરિપત્ર ક્રમાંક: બખપ/૧૦૨૦૧૮/૪૨૫/ક તા.૧૨/૦૨/૨૦૧૯
- (૯) નાયબ કલેક્ટર શ્રી (સ્ટેમ્પ ડ્યુટી) ની તા.24/06/2021 નો અભિપ્રાય
- (૧૦) નોટીસ પોર્ટલ પરની કેસ વિગત

### હુકમ :-

વચાવે લીધેલ કમ (૧) ની અરજી તથા સોગંદનામા થી અરજદારશ્રી કેશરી યુનિપોલીપ્રો એલ.એલ.પી એ મોજે ચાંચાવદરડા તા. માળીયા જિ. મોરબી ના સરવે/બ્લોક નં. 69p2 ના ક્ષેત્રફળ 11,129.00 ચો.મી. ની જમીન અંગે ગુજરાત જમીન મહેસૂલ અધિનિયમ-૧૮૭૯ ની કલમ-૬૫ હેઠળ બિનખેતીના હેતુ માટે પરવાનગી આપવા વિનંતી કરેલ છે.

૨. સવાલવાળી જમીનના ગામ નમૂના નં. ૭/૧૨ માં કબજેદારોની વિગત નીચે મુજબ છે.

સરવે/બ્લોક નંબર ટી.પી. નંબર એફ.પી. નંબર	માંગણીનું ક્ષેત્રફળ (ચો.મી.)	કબજેદારોના નામ (ખાતા નં. 596)	જમીનનો સત્તાપ્રકાર (૭/૧૨ મુજબ)
સરવે/બ્લોક નં. : 69p2 જુની સરવે/બ્લોક નં. : --- ટી.પી. નં. : --- એફ.પી. નં. : ---	11,129.00	કેશરી યુનિપોલીપ્રો એલ.એલ.પી.	જુની શરત (જુ.શ)

૩. વસુલ કરવામાં આવેલ કરવેરાની વિગત નીચે મુજબ છે.

બેકમાં ચલન ભર્યા તા.30/06/2021 નં.57000013551003530062165429

કરની વિગત	સદર	માંગણીનું ક્ષેત્રફળ (ચો.મી.)	દર રૂ. પ્રતિ ચો.મી.	કુલ રકમ રૂ.
રૂપાંતર કર	569-0035-00-800-01	11,129.00	8.00	89,032.00
વિશાલ ધારો	570-0035-00-101-01	11,129.00	0.15	1,669.00
લોકલ ફડ	574-0029-00-103-01	11,129.00	0.30	3,339.00
વિશાલ ઉપકર	575-0045-00-108-01	11,129.00	0.08	835.00
માપફા ફા	577-0029-00-106-01	11,129.00	---	2,400.00
			કુલ રૂ.	97,275.00

૪. ઉપર્યુક્ત તમામ હકીકતો ધ્યાને લઈ મોજે ચાંચાવદરડા તા. માળીયા જિ. મોરબી ના સરવે/બ્લોક નં. 69p2 ના ક્ષેત્રફળ 11,129.00 ચો.મી. ની જમીનને નીચે જણાવેલ શરતોને આધિન ગુજરાત જમીન મહેસૂલ અધિનિયમ-૧૮૭૯ ની કલમ-૬૫ હેઠળ બિનખેતી હેતુ (બહુહેતુક ઉપયોગ) માટે પરવાનગી આપવા આથી હુકમ કરવામાં આવે છે.



શરતો :-

- (૧) આ હુકમ મળ્યેથી બે માસમાં "એમ" નમૂનામાં સનદ પ્રાપ્ત થશે.
- (૨) જિલ્લા ઇન્સ્પેક્ટરશ્રી, જમીન રેકર્ડની કચેરીમાં માપણી ફી જમા કરાવેલ છે. જેથી માપણી કરી / કરાવી આ હુકમ આધારે તેમજ મંજૂર થયેલ પ્લાન મુજબ દુરસ્તી પત્રક તૈયાર કરવાનું / કરાવવાનું રહેશે અને દુરસ્તી પત્રકનો મહેસૂલી દફતરે અમલ થયા બાદ જ પ્રકાશની બિનખેતીની જમીન / પ્લોટનું રજી. દસ્તાવેજથી થયેલ વેચાણ વ્યવહારના અમલ માટે નોંધ પાડવાની રહેશે.
- (૩) અરજદારે પ્રતિ વર્ષ ખેતી સિવાયનો ધારો (વિશેષધારો) દર પ્રતિ ચો.મી. ના રૂ. ૦.૧૫ પ્રમાણે રૂ. ૧,૬૬૯.૦૦ તેમજ નિયમ પ્રમાણે લોકલ ફંડ તથા શિક્ષણ સેસ ભરવો પડશે જે અંગેનો દર વખતોવખત ફેરફારને પાત્ર રહેશે.
- (૪) મોરબી નગર નિયોજક કચેરી એ મંજૂર કરેલા પ્લાન મુજબ બાંધકામ કરવાનું રહેશે અને હુકમ થયા તારીખથી ત્રણ વર્ષમાં બાંધકામ પૂર્ણ કરવાનું રહેશે.
- (૫) સરકારશ્રીના મહેસૂલ વિભાગના ઠરાવ નં. બખપ/૧૦૯૩/૧૦૫૨/૬ તા. ૧૩/૦૯/૧૯૯૩ માં ઠરાવ્યા મુજબ સહીયારા / કોમન પ્લોટ અને રસ્તાની જમીન સોસાયટીની માલિકીની અથવા સર્વે પ્લોટ હોલ્ડરની સહીયારી માલિકીની ગણાશે તે ઉપર મૂળ માલિકનો કોઇ હક્ક રહેશે નહિ.
- (૬) સરકારશ્રીના મહેસૂલ વિભાગના તા. ૦૭/૦૮/૧૯૯૧ ના પરિપત્ર નં. બખપ-૧૦૯૧/૧૭૫૬/૬ ની જોગવાઈ મુજબ બિન અધિકૃત બાંધકામ બાબતે બાંધકામ નિયંત્રણ કરતી સંબંધિત મહાનગરપાલિકા / શહેરી વિસ્તાર સત્તા મંડળએ ધોરણસરનાં પગલાં લેવાના રહેશે.
- (૭) સરકારશ્રીના મહેસૂલ વિભાગના તા. ૧૨/૦૨/૨૦૧૯ ના પરિપત્ર નં. બખપ/૧૦૨૦૧૮/૪૨૫/૬ મુજબની નીચેની શરતોનું પાલન કરવાનું રહેશે.
  ૧. જો અગાઉ ચોકકસ હેતુ માટે પ્રિમિયમ ભરપાઇ થયેલ હોય અને અન્ય હેતુ માટે વિકાસ પરવાનગી માંગેલ હોય/ નકશા મંજૂર કરવાના થતા હોય તો વિકાસ પરવાનગી આપતાં પહેલાં પ્રિમિયમ તફાવત ભરાયાની સંબંધિત સત્તામંડળે ખાતરી કરવાની રહેશે અને ત્યારબાદ જ વિકાસ પરવાનગી આપવાની રહેશે.
  ૨. જુડીસીયાર મુજબ જે તે હેતુ/ ઉપયોગ માટે પરવાનગી મળવાપાત્ર નહિ હોય તો તે ઉપયોગ કરી શકાશે નહિ.
  ૩. ખેતી ઝોનમાં જુડીસીયાર મુજબ જેટલું બાંધકામ મળવાપાત્ર હશે તેટલા જ ક્ષેત્રફળ માટે વિકાસ પરવાનગી આપવાની રહેશે.
  ૪. બિનખેતી પરવાનગી મળ્યા બાદ જો ખાસ મંજૂરી વિના ધાર્મિક ઉપયોગ માટે બાંધકામ કરેલ હશે તો તે શરતસંગ ગણાશે અને તે બાંધકામ દૂર કરવાપાત્ર થશે.
- (૮) સરકારશ્રીના મહેસૂલ વિભાગના તા. ૦૧/૦૭/૨૦૦૮ ના ઠરાવ નં. બખપ/૧૦૦૬/૪૨૫/૬ માં જણાવેલ નીચે મુજબની શરતોનું પાલન કરવાનું રહેશે.
  ૧. જિલ્લા ઇન્સ્પેક્ટરશ્રી, જમીન રેકર્ડ દ્વારા ઇસ્યુ કરાયેલ માપણી શીટ કે જેના ઉપર મૂળ ટિપ્પણની હદ પણ દર્શાવેલ હોવી જોઇએ. રજૂ કરાયેલ પ્લાન તથા લે-આઉટ પ્લાન સક્ષમ કક્ષાએ મંજૂર કરાયેલ હોવી જોઇએ.
  ૨. બાંધકામ શરૂ કરતા પહેલાં બાંધકામનાં નકશા સક્ષમ અધિકારી પાસે મંજૂર કરાવવાના રહેશે. પરંતુ અરજદાર બિનખેતી પરવાનગી મેળવ્યા વગર આવા બાંધકામની રજા ચિઠ્ઠી મેળવી શકશે નહિ.
  ૩. શહેરી વિસ્તાર જ્યાં ટાઉન પ્લાનિંગ સ્કીમ મંજૂર થઇ ગઇ છે ત્યાં જી.ડી.સી.આર. અને ઝોનિંગના નિયમો અનુસાર બાંધકામ કરવાનું રહેશે.
  ૪. મંજૂર થયેલ નકશા મુજબ આરોગ્ય અને સ્વાસ્થ્યની દ્રષ્ટિએ ગંદા પાણીનાં નિકાલની જોગવાઈ કરવાની રહેશે.
  ૫. અરજદારે રિબન ડેવલપમેન્ટ રુલ્સ નીચે જે તે રસ્તાનો પ્રકાર ધ્યાને લઇ રસ્તાના મધ્યબિંદુથી બાંધકામ વચ્ચે અંતર જાળવવાનું રહેશે અન્યથા અરજદારની જવાબદારી થશે.
  ૬. ફ્લોર, મિલ, સિનેમા/ ટુરિંગ સિનેમા/ થિયેટર માટે બિનખેતી પરવાનગીના કામે જિલ્લા મેજિસ્ટ્રેટની જરૂરી મંજૂરી મેળવી આગળની કાર્યવાહી કરવાની રહેશે.
  ૭. મેટ્રોલ, ડીઝલ, કેરોસીન, સી.એન.જી., એલ.પી.જી. પંપ નાંખવા માટે બિનખેતી પરવાનગીના કામે બાંધકામ શરૂ કરતાં પહેલાં જિલ્લા મેજિસ્ટ્રેટની જરૂરી મંજૂરી મેળવી આગળની કાર્યવાહી કરવાની રહેશે.
  ૮. ઇન્ડિયન એક્ષપ્લોઝિવ એક્ટ અન્વયે મેગેનિઝ, ફાયર વર્ક્સ, દારૂખાના માટે બિનખેતીની કાર્યવાહી કરતા પહેલાં જિલ્લા મેજિસ્ટ્રેટની જરૂરી મંજૂરી મેળવી આગળની કાર્યવાહી કરવાની રહેશે.
  ૯. સવાલવાળી જમીન જો રેલવે હદની નજીક હોય તો રેલવેની હદથી નિયમ મુજબ જગ્યા છોડી બાંધકામ કરવાનું રહેશે.
  ૧૦. સવાલવાળી જમીન ઉપરથી અથવા બાજુમાંથી વીજળી ગ્રિડના તાર/ હાઇટેન્શન પાવર અગર થાંભલા આવેલ હોય ત્યારે તે અન્વયે લાગુ પડતા નિયમોનું પાલન કરવા અને તે મુજબ બાંધકામ કરવાનું રહેશે.



૧૧. બિનપ્રેતી માંગવામાં આવી હોય તેવી જમીન જો એરોડ્રામ આસપાસ નિયમ મુજબની ત્રિજ્યામાં આવતી હોય ત્યારે બાંધકામની ઉચાઇ તથા એરોડ્રામની દ્રષ્ટિએ જરૂરી એવું ના-વાંધા પ્રમાણપત્ર સિવિલ એવિએશન ખાતા પાસેથી મેળવવાનું રહેશે અને સિવિલ એવિએશન ખાતાના નિયમોનું પાલન કરવાનું રહેશે.
૧૨. બો.એન.જી.સી. ના કુવાની નજીકમાં આવેલ જમીનના કિસ્સામાં અરજદારે સંબંધિત નિયમોનું પાલન કરવાનું રહેશે.
૧૩. નર્મદા કેનાલ/ અન્ય સિંચાઇ કેનાલની નજીકમાં આવેલ જમીનની બાબતમાં અરજદારે સૂચિત બાંધકામ માટે જાળવવાના થતાં અંતર અંગેના નિયમોનું પાલન કરવાનું રહેશે.
૧૪. અરજદારે/ જ્યાં જરૂરી હોય ત્યાં કેન્દ્ર સરકાર કે રાજ્ય સરકારના કાયદા નીચે રક્ષિત સ્મારક (Protected Monuments) તરીકે જાહેર કરેલ પ્રાચીન સ્મારકથી નિયમ મુજબનું અંતર જાળવવાની પ્રવર્તમાન જોગવાઈઓનું પાલન કરવાનું રહેશે.
- (૧૦) જો આ જમીન પર કોઇ બેંક/ મંડળીનો બોજો બાકી હોય તો, તે ભરપાઇ કર્યા સિવાય આ મિલકત કોઇપણ પ્રકારે વેચાણ, ભેટ, વસિયત, બાનાખત, ગિરો કરી શકાશે નહિ અને કોઇપણ અન્યને પ્રત્યક્ષ કે પરોક્ષ રીતે માલિકી કે કબજો ભોગવટો તબદીલ કરી શકાશે નહિ.
- (૧૧) પ્રજાવાણી જમીનમાં નગરપાલિકા/ મહાનગરપાલિકા/ શહેરી વિકાસ સત્તા મંડળ દ્વારા જે શરતોએ પરવાનગી આપવામાં આવશે તે શરતોનું પાલન તથા બાંધકામ કરવાનું રહેશે.
- (૧૨) આ જમીનમાં વરસાદી પાણીના ભુગર્ભ વહન/ સંચય માટે દર મકાન/ બહુમાળી મકાન દીઠ એકના દરે આ જમીનમાં ઉપર પરજોલીદીગ બોરવેલની વ્યવસ્થા અચૂક કરવાની રહેશે તથા વરસાદી પાણીના નિકાલની વ્યવસ્થા કરીને બાંધકામ કરવાનું રહેશે.
- (૧૩) પ્રજાવાણી જમીનમાં સ્થાને થયેલ બાંધકામ સ્થાનિક સ્વરાજની સંસ્થાના નિયમોનુસાર નહિ હોય તો સ્થાનિક સ્વરાજની સંસ્થા નિયમોનુસાર કાર્યવાહી કરી શકશે. તેમાં આ હુકમથી બાધ આવશે નહિ.
- અરજદારે ઉપરોક્ત શરતોનું પાલન કરવાનું રહેશે. જો તેમાં નિષ્ફળ જશે તો શરતભંગ ગણી સક્ષમ અધિકારી કાયદેસરની કાર્યવાહી કરશે.
- (૧૪) ઉપરની કોઇપણ શરતનો ભંગ થયેથી જમીન મહેસૂલ કાયદાની કલમ-૬૭ મુજબ શિક્ષાત્મક પગલા લેવામાં આવશે તેમજ બીજી કોઇપણ શિક્ષાને પાત્ર હશે તો તેને બાધ આપ્યા સિવાય કે જે ફરમાવવાનું યોગ્ય લાગે તે પ્રમાણે દંડ અથવા આકાર લઇ સદરજી જમીનનો કબજો કબજેદાર પાસે ચાલુ રહેવા દઇ શકાશે.
- (૧૫) ઉપરોક્ત શરતોમાં ગમે તે મજદૂર હોય તેમ છતાં, કલેક્ટરશ્રી સદરજી હુકમ વિરુદ્ધ બાંધેલા અથવા વધારાના કોઇપણ મકાન અથવા ઇમલાને કલેક્ટરશ્રીએ, આ અર્થે જે મુદત ઠરાવી હોય તે મુદત દરમિયાન તેવી રીતે ખસેડવામાં ન આવે કે સૂચવ્યા મુજબ ફેરફાર ન કરવામાં આવે તો તેમ કરવામાં જે ખર્ચ થાય તે કબજેદાર પાસેથી જમીન મહેસૂલની બાકી તરીકે વસુલ કરવાને મુખત્યાર છે.

વધુમાં ઉપર્યુક્ત શરતોને આધીન અરજદાર દ્વારા રજુ થયેલ સોગંદનામાની વિગતોમાં તેઓ દ્વારા જાહેર કરેલી હકીકતોને આધારે સવાલવાળી જમીનના બિનપ્રેતી ઉપયોગ માટે પરવાનગી આપવામાં આવે છે.

( જી. બી. પટેલ )  
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