

BRIEF PROJECT SUMMARY

Introduction

M/s.Vansum Industries is a group of companies having head quarter at Pune, Maharashtra. We are a group of experienced Chemical Industry professionals providing original manufacturing services on Manganese products. We carry out rigorous and immense production with the help of our extensive in-house knowledge base and our highly qualified staff of chemical engineers. We manufacture quality manganese products in bulk quantity. The chemical manufacturing operations are simultaneously managed at two locations viz.

- 1) M/s. Kemtech Solutions Pvt. Ltd.(KSPL) at Pune, Maharashtra and
- 2) M/s. Reshmika Minerals & Chemicals Pvt. Ltd. (RMCPL) at GIDC Panoli, Gujarat.

Company is regularly producing chemicals from raw Ore Manganese compounds at both locations and has increased its market share over last 47 years.

RMCPL started its operations in the year 2010 by acquiring a 89,632.72 square meter land in the year 2008 at GIDC Panoli, Gujarat.

RMCPL has now developed in-house green technologies for some organic Chemicals / intermediates. The initial lab and pilot scale studies are successfully completed and company is now ready for commercial operations.

RMCPL wish to establish its manufacturing operation of Organic Chemicals and intermediates at its site at GIDC, Panoli, Gujarat.

The Land is for “Industrial” use and thus there shall be no change in land use. This plot is allotted by GIDC in the year 2008.

GIDC has provided all basic infrastructures like Electrical Power, water supply, the internal road network, external approach road and networking with CHWSTDF (Common Hazardous Waste Storage Treatment and Disposal Facility).

There is no sensitive establishment in the vicinity such as health resort, hospital, archaeological monuments, sanctuaries, etc.

RMCPL wish to establish manufacturing activity at the site.

The proposed products and production quantities are summarized below:

Table 1 List of Proposed Products

No	Product / By Product	CAS No	Proposed Capacity, TPM
	Products		
1	Di-Ethyl Ketone (DEK)	96-22-0	250
2	Propiophenone	93-55-0	50
3	4-Nitro-o-Xylene	99-51-4	500
4	3-Nitro-o-Xylene	83-41-0	600
5	1,3-Dimethyl-2-Nitrobenzene	81-20-9	20
6	2,4-Dimethyl-1-Nitrobenzene	89-87-2	80
7	3,4-Xylidine (3,4 -Dimethyl Aniline)	95-64-7	100
8	2,6-Xylidine (2,6 -Dimethyl Aniline)	87-62-7	10
9	2,4-Xylidine (2,4 - Dimethyl Aniline)	95-68-1	40
10	N-(1-Ethylpropyl)-3,4-Xylidine	56038-89-2	500
11	2-Cynophenol	611-20-1	100
12	1-Octanoic acid	124-07-2	300
13	Styrene oxide	96-09-3	200
14	Phenyl ethyl alcohol	60-12-8	200
15	Phenyl ethyl alcohol methyl ether	3558-60-9	50
16	Phenyl acetaldehyde	122-78-1	20
17	Phenyl acetaldehyde di-methylacetal	101-48-4	20
18	Phenyl ethyl acetate	103-45-7	20
	By Products		
19	Methyl Ethyl Ketone	78-93-3	5
20	Dilute Sulfuric acid	7664-93-9	230
21	Dilute nitric acid	7697-37-2	800
	Grant Total		4095

Currently RMCPL is having CCA No 75308 from GPCB manufacturing inorganic chemicals Manganese dioxide (2000 Mt/Month), Manganese Oxide (700 Mt/Month) and Manganese sulphate solution (12000 Mt/month), Bricks (using own nonhazardous waste generated from manufacturing process) (36, 00,000 Nos/Month).

Details Of Nearest Infrastructure Facilities

Sr. No	Destination	App. Distance of Project Site
01	Nearest Town	
	Ankleshwar	13 km
02	Nearest National Highway	
	NH- 8	0.6 km
03	Nearest Airport	
	Vadodara	109 km
04	Nearest Railway Station	
	Ankleshwar	13 km
05	Nearest Port	
	Hazira	90 km

The project is proposed at Plot No 23, Panoli GIDC District - Bharuch, Gujarat – 394 116

The Geographical Location of this plot is at 210 42' 32.61" N Latitude and 730 00' 3.95" E Longitude with an elevation of 34 meter above sea level MSL.

Land Form: Land is on plain contour, it is flat terrain.

Land Ownership: Land ownership is with project proponents (M/s RMCPL)

Existing Land use Pattern: The Land is reserved for Industrial use & the proposed project shall be at the same plot.

Existing Infrastructure: Presently there is an existing Infrastructure around the site.

The location justification for the project is as under

- Plot is at well-established GIDC Panoli area
- Purified Water supply from GIDC
- Well-developed roads and connectivity.
- Infrastructure facilities available at established GIDC site

Availability of Resources (Water, Energy/Power Requirement):

Power: The proposed power requirement for the Project is 1,000 KVA which will be source from DGVCL grid.

Water: The total fresh water requirement for Project is about 261 cmd for domestic, process, Boiler/cooling and gardening purpose. It will be source from GIDC which is available at site.

Fresh water requirement and waste water generation for proposed expansion shall be as follows:

Fresh water intake (for expansion)

No.	Description	Proposed water input (cmd)
1	Domestic	16
2	Industrial Process	245
3	Gardening	-
	Total	261

Waste water Generation (For expansion)

No.	Description	Proposed generation (cmd)	Disposal
1	Domestic effluent	12	It will be treated onsite and reused. There will be no discharge outside
2	Trade effluent	54	
	Total	66	

Manpower: Expected manpower requirement for the Project shall be as follows:

Description	Proposed, No (approx.)
Permanent	25

Contract	75
Total	100

Steam / Process heat Requirement: The steam requirement and process heat requirement for the proposed set up shall be met from the steam generator and Thermic fluid heater respectively.

The fuel requirement shall be as follows

Fuel for	No of units	Type of Fuel	Estimated fuel quantity
Steam generation boiler (3 TPH each at 10 barg)	2 operation & 1 standby	Natural Gas	2 x 214 Nm ³ /hr
General Hot oil generator (2.5 Million Kcal/hr each) (Hot oil at 300 deg C with 150 m ³ /hr circulation)	2 operation & 1 standby	Natural Gas	2 x 346 Nm ³ /hr
High temperature Hot oil generator (1.0 Million Kcal/hr each) (Hot oil at 360 deg C with 100 m ³ /hr circulation)	2 Operational	Natural Gas	2 x 138 Nm ³ /hr
Emergency power generation set (750 KVA x 2 Nos)	2	Natural Gas	2 x 200 Nm ³ /hr

Stacks of requisite heights for above shall be provided as per statutory norms.

Waste Generation and its treatment, disposal

Hazardous Waste:

The quantification of hazardous solid waste generated from present activity and proposed activities is presented as follows:

No	Waste Type	Category	Existing quantity as per CCA No AWH 75308	Proposed quantity	Quantity after expansion	Mode of disposal
1	Used Oil	5.1	1000 Kg/Year	1000 Kg/Year	2000 Kg/year	Disposal by sale to registered refiners
2	Discarded container bags /Liners	33.3	6.03 MT/Year	10.0 MT/Year	16.03 MT/Year	Collection, storage, reuse and decontamination.
3	Used Catalyst	29.5	-	1.25 Ton/Month	1.25 Ton/Month	Used catalyst will be sent to solid waste disposal facility or can be used for preparation of bricks.
4	Used / Spent Catalyst (Transition metal)	29.5	-	5000 Kg/year	5000 Kg/year	Used catalyst will be send to supplier for re-activation of catalyst.
5	Distillation column	29.1	-	95 Tons/Month	95 Tons/Month	Will be sent to common

	residue					hazardous waste incineration facility
6	ETP sludge	35.3	-	100 MT/Year	100 MT/Year	CHWTSDf
7	Used Empty Barrels / Liners	33.1	-	1000 Nos/Year	1000 Nos/Year	Sale to Authorized party

Note: Above waste figures are preliminary estimates, will be firmed up and detailed in EIA report

Green Belt:

Green belt of adequate area within and around the project site shall be carried out as per norms and requirement.

Estimated project cost:

Total estimated project cost is 3,000 Lacs