

VENSUB LABORATORIES PRIVATE LIMITED

**SY. NO. 29, TUPAKULAGUDEM VILLAGE, TALLAPUDI MANDAL,
WEST GODAVARI DISTRICT, ANDHRA PRADESH**

PRE-FEASIBILITY REPORT

VENSUB LABORATORIES PRIVATE LIMITED
Duplex No. 12, Lakshmi Gayatri Enclave, Aditya Nagar,
KPHB, Kukatpally, Hyderabad – 500 072
Phone: 040-20000188 Fax: 040-23748666
E-mail: ramaraju_tagoor@yahoo.co.in

SUBMITTED TO
MINISTRY OF ENVIRONMENT AND FORESTS,
GOVERNMENT OF INDIA
INDIRA PARYAVARAN BHAWAN, JOR BAGH ROAD, NEW DELHI

Vensub Laboratories Private Limited

Sy. No. 29, Tupakulagudem Village,
Tallapudi Mandal, West Godavari District,
Andhra Pradesh

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1. Executive Summary

M/s. Vensub Laboratories Private Limited obtained Environmental Clearance from Ministry of Environment and Forests (MoEF) vide letter no. F. No. J-11011/897/2008-IA II (I) dated 14.10.2009 at Sy. No. 29, Tupakulagudem Village, Tallapudi Mandal, West Godavari District, Andhra Pradesh. It is proposed to **revalidate the existing EC**. Capital cost of the project is Rs. 6 crores towards production block, utilities and zero liquid discharge facility. Total Land area after proposed expansion 11.8 Acres

The site is situated at 17°08'46" latitude and 81°36'24" longitude. The land area of the plant is 11.8 acres. River Godavari is at a distance of 6.3 km from the plant site in East direction. The major forest in the study area is Karakapadu Reserve forest is at a distance of 9.4 km in Northwest direction to the plant site. The main approach road is Gopavaram to Saggonda road passing at a distance of 1 km from the plant site. The nearest human settlement from the site is Suraiahpet located at distance of 1.2 km in South direction. There are no ecologically sensitive areas like national parks, sanctuaries within 10 km radius of the site.

2. Introduction of the Project / Background Information:

2.1 Identification of Project and Project Proponent:

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2.2 Brief Description of Nature of the Project :

The synthetic organic chemicals manufacturing will involve series of chemical reactions to get the final Product. The products of reaction are purified, filtered and dried before packing the final product. The Chemical reactions require various supporting services like Heating, Cooling and Agitation etc.

2.3 Need for the project and its importance to the country and or region:

The project is envisaged to meet the demand supply gap in both domestic market and export market, as API demand is increasing day by day.

2.4 Demands-Supply Gap:

The project is envisaged to meet the demand supply gap in both domestic market and export market, as API demand is increasing day by day.

2.5 Imports Vs. Indigenous Production:

The project shall meet the reduce imports in some of the intermediate products and also enhance the foreign exchange reserves in view of the proposed exports of few products.

2.6 Domestic/export Markets:

The products shall cater to both domestic and export markets.

2.7 Employment Generation (Direct and Indirect) due to the project:

The present project for manufacturing of Synthetic Organic Chemicals requires substantial handling of raw materials, goods in process and finished goods. The proposed expansion shall increase the employment potential.

3. Project Description

3.1 Type of Project including interlinked and interdependent projects, if any:

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3.2 Size or magnitude of operation:

Manufacturing Capacity

S.No	Product name	Capacity	
		TPA	TPM
1	Niacin - API	312	26
2	Paracetmol - API	168.48	14.04
3	N-Methyl -4-Piperidone (NMP) - Drug Intermediate	137.9	11.49
4	Sodium Methoxide (SMO) - Drug Intermediate	99.84	8.32
5	5-(difluoromethoxy)-2-mercapto-1H-benzimidazole(BZL) - Drug Intermediate	62.4	5.2
6			
7	Terbinafine hydrochloride		
	Total	780.62	65.05

Note: The above products will be manufactured on campaign basis only. Only two products i.e., two Bulk drugs / two drug intermediates will be in production at any given time.

3.3 Process Description with process details (a schematic diagram/flow chart)

3.4 Raw material required along with estimated quantity likely source, marketing area of final product/s, mode of transport of raw material and finished product.

All the raw materials required for manufacturing mostly available in India or from abroad. There are no banned chemicals or products which are proposed to be used.

It is proposed to enter into long term arrangements with some of the raw material suppliers both in India and overseas to avoid shortages at any time.

3.5 Availability of water its source, energy/power requirement and source should be given

The total water requirement will be 40 KLD and same will be met by Ground water within plant premises Total water balance is presented in [Table below](#).

Total Water Balance

S.No	Input	Quantity (KLD)	Output	Quantity (KLD)	Remarks
1	Process	7	Process Effluent*	7.45*	To treatment
2	Washings	3	Washing Effluent	3	To ETP
3	Boiler	8	Boiler Blow down	1	To ETP
			Loss	7	
4	Cooling Tower	18.5	Blow down	2	To ETP
			loss	16.5	
5	Scrubber	0.5	Scrubber Effluent	0.5	To ETP
6	Domestic	3.0	Domestic Effluent	2.4	To ETP
			Loss	0.6	
	Total	40	Total	40.45	

* Process effluents contain soluble raw materials, byproducts, solvents etc.

3.5.1 Electricity:

The requirement of power will be 250 KW. Further, due to the nature of the reactions and requirement of continuous power, the management proposes to put in place 100% self generation of power by DG sets of 250 KVA capacity DG set. Therefore no delay or difficulty is foreseen on the power front.

3.6 Quantity of wastes to be generated (liquid and solid) and Scheme for their Management/disposal

Quantity of Effluent Generated and Mode of Treatment

Description	Quantity (KLD)	Mode of Treatment
HTDS Effluents		
Process	7.45	Sent to Stripper. Stripper condensate shall dispose to cement industries for co-processing/TSDf. Stripper bottom sent to MEE followed by AFTD. Condensate from MEE shall be sent to biological treatment plant.
Washings	3	
Scrubber Effluent	0.5	
Total - I	10.95	
LTDS Effluents		
Boiler Blow downs	1	Sent to Biological Treatment System followed by RO. RO permeate reused for cooling tower makeup. RO rejects sent to MEE.
Cooling Tower Blow downs	2	
Domestic	2.4	
Total - II	5.4	
Grand Total (I+II)	16.35	

Solid Wastes and Disposal

S.No	Description	Quantity	Mode of Disposal/Treatment
1	Ash from Boiler	1.25 MT/day	Sold to Brick manufactures
2	Solid waste from process (Max)		
	Organic	199.58 Kg/day	Sent to TSDF, Hyderabad
	Carbon and Hyflow	3 Kg/day	Sent to Cement Kilns
	Catalyst	0.5 Kg/day	Sent to TSDF, Hyderabad
3	Salts from Evaporator	744 Kg/day	Sent to TSDF, Hyderabad
5	ETP Sludge	30 Kg/day	Sent to TSDF, Hyderabad
6	Solvent residue	174 Kg/day	Sent to TSDF, Hyderabad
7	Waste Oil	50 L /Year	Sent to Authorized Recyclers
8	Used Batteries	1 No/Year	Sent to Authorized Recyclers

4. Site Analysis

4.1 Plant Location

The site is situated at 17°08'46" latitude and 81°36'24" longitude. The land area of the plant is 11.8 acres. River Godavari is at a distance of 6.3 km from the plant site in East direction. The major forest in the study area is Karakapadu Reserve forest is at a distance of 9.4 km in Northwest direction to the plant site. The main approach road is Gopavaram to Saggonda road passing at a distance of 1 km from the plant site. The nearest human settlement from the site is Suraihpeta located at distance of 1.2 km in South direction. There are no ecologically sensitive areas like national parks, sanctuaries within 10 km radius of the site.

5. Planning Brief:

The project envisages to be completed the project in phase wise as it involves installation of higher capacity processing equipment's besides improving of yield and the production shall be initiated thereon.

6. Proposed Infrastructure:

6.1 Power Requirement and Supply/Source

The total power requirement shall be 250 KW. Back up DG set of 250 KVA

6.2 Utilities

List of Utilities

S.No	Description	Capacity
1	Agro Waste Fired Boiler	3 TPH
2	DG Set	250 KVA

Equipments

The basic technology involved in the manufacturing of Bulk drugs is the process Kettles, Heat Exchangers, Centrifuges, and Storage Tanks. To support the process equipment Boilers, Chilling plants, Cooling Towers Etc. are required. All the above equipment can be sourced indigenously and the lead time to supply the equipment will not exceed 20 weeks.

6.3 Waste management

Liquid Effluents

The effluent generated from M/s. Vensub Laboratories Private Limited is mainly from process, washings, scrubbers, cooling towers & boiler blow downs and domestic effluent. It is proposed to treat all HTDS effluent in stripper followed by MEE and ATFD. All LTDS effluent including Domestic effluent shall be treated in Biological treatment followed by RO system. RO Rejects sent to MEE and permeate is used for cooling towers as make up.

Air Pollution

The sources of air pollution from the plant are 3TPH Agro waste Fired boiler and 250 KVA DG Set capacity. The emissions from the boiler are passed through a Multicone Cyclone before letting out through a chimney. The process emissions contain Hydrogen (33.52) which will be let out into atmosphere following a standard operating procedure

Solid waste

Solid wastes are generated from the process, solvent distillation, collection/neutralization tank, waste oil from DG sets, used batteries from DG sets. The ash from boiler is sold to brick manufacturers. The solid wastes; evaporation salts, wastes from the process in inorganic form i.e., process salts and filtration aids shall be disposed to the TSDF, while the hazardous wastes of organic nature i.e., distillation residues shall be disposed to authorized cement units and other wastes like used oil and used batteries shall be sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which will be used for packing product, and or returned to the product seller or sold to authorized buyers after detoxification, while the sludge from treatment plant shall be sent to TSDF.

7. Rehabilitation and Resettlement (R&R) Plan

Not applicable as the land area is in the existing plant premises.

8. Project Schedule & Cost Estimates

8.1 Likely date of start of construction and likely date of completion (Time schedule for the project to be given)

Within three months as it involves installation of higher capacity processing equipment's besides improving of yield and the production shall be initiated there upon.

8.2 Estimated project cost along with analysis in terms of economic viability of the project

The estimated cost of the project is approximately **Rs. 6 Crores.**

Project Cost		
		Rs. In lacs
Plant & machinery		286
Civil buildings		80
Structures		25.6
Total		391.6
Pipe lines & insulation	20% on plant & machinery	100
Electricals & instrumentation	10% on plant & machinery	57.2
Erection & commissioning & painting	8% on plant & machinery and structures	30
Land & development		11.9
Material handling equipment charges		0.1
Laboratory equipment		0.5
Safety equipment		0.3
Furniture, fixtures, computers, lighting etc		0.4
Total		200.5
Contingencies & pre-operative expenses	5% on the above	8
Project Cost		600