



एमएसएमई—विकास संस्थान

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार

22 गोदाम औद्योगिक सम्पदा, जयपुर,

राजस्थान—302006

परियोजना रिपोर्ट

व्हाइट स्प्रिट / मिनरल टरपेन्टाइल ऑयल की रिपैकिंग

REPACKING OF WHITE SPRIT / MINERAL

TURPENTINE OIL

PROJECT PROFILE

1. Product	REPACKING OF WHITE SPRIT / MINERAL TURPENTINE OIL
2. NIC Code (2008)	20229
3. Production Capacity	100 K.L. per Annum. (Valued Rs. 75 lakhs)
4. Month & year of Preparation	Nov. 2020
5. Quality Standards	Confirms to IS:1745-1978 (Reaffirmed 2000) (Solvent 145/205 Low aromatic)

Prepared By

MSME-Development Institute

Government of India

Ministry of Micro, Small & Medium Enterprises

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PROJECT PROFILE ON

REPACKING OF WHITE SPRIT / MINERAL TURPENTINE OIL

(A) PRODUCTS & ITS USES:-

Mineral spirit /Mineral turpentine/Petroleum spirit oil is a mixture of petroleum based hydrocarbons and clear, water white, flammable, colourless organic solvent. Mineral turpentine is the most widely used hydro carbon solvent as it combines good solvency with controlled evaporation. It is chemically very much different from turpentine oil which mainly consists of pine oil.

(B) THE MAJOR USES ARE:

-  In the manufacture of surface coatings like paints, varnishes, lacquers.
-  In textile printing with pigment colours.
-  Solvent for metal and machine degreasing.
-  Thinner for oil soluble rust preventive.
-  Solvent for insecticidal formulation.
-  Thinner for lithographic varnishes.
-  Diluent for many types of water proofing.
-  Mothproofing, binding and sealing compounds.
-  Solvent for wax, rubber and resins in the manufacture of electrical insulating compounds.
-  Solvent in the preparation of bituminous paints, scouring agent for raw wool
-  Paint thinner for oil based paint.
-  Clean-up of brushes and equipment after painting

(C) IMPLEMENTATION SCHEDULE:

The project implementation will take about one month. The break-up of activities with relative time for each activity is as follows:

Sr. No.	Activity	Estimated Time Period
1.	Scheme preparation & approval	1 – 5 Days
2.	Registration under MSME Act 2006 and sanction of loan	15 Days
3.	Commercial Production	One Month onward

Since the Project is simple Repacking of white sprit / Mineral Turpentine Oil & Need not any plant & Machinerics, just required storage facilities. So production may be started within one month.

(D) BASIS AND PRESUMPTIONS:

- a. The scheme is based on single shift of 8 hours per day and 300 working days per annum.
- b. The interest rate on the borrowed capital has been taken as 10 % per annum.
- c. The cost in respect of Raw Materials, Packing Materials has been taken at the time of preparation of project profile and may vary from place to place and time to time.
- d. The rental Value of production shed is taken as per the prevailing rates and may vary from place to place.
- e. The plant capacity utilization has been taken as 60 % for the first year, which may subsequently increase to 70%, 80% & 90 % in the second, third & fourth year respectively.

(E) MANUFACTURING CAPACITY

- (a) Quantity : 100 K.L.
(b) Value (Rs.) : 75 Lakhs

(F) TECHNICAL ASPECTS:

(1) MANUFACTURING PROCESS:

It contains only filling and bottling of products. In this project, manual filling has been taken into consideration.

(1.1) Quality Control

White sprit /Mineral Turpentine Oil confirm to Indian specification No. IS: 1745-1978 (Re-affirmed – 2000)

Specifications of Mineral turpentine Oil is as under:-

S.No.	TEST	TEST METHOD
(i)	Density @ 15 ⁰ C, g/ml	IS: 1448 P:16
(ii)	Colour(Saybolt)	IS: 1448 P:14
(iii)	Flash Point(Abel) ⁰ C	IS: 1448 P:20
(iv)	Copper Strip Corrosion (3 hrs @50 ⁰ C)	IS: 1448 P:15
(v)	Residue non evaporation (Air Jet) mg/100ml	IS: 1448 P:129
(vi)	Distillation	IS: 1448 P:118
	IBP, ⁰ C	
	50 % v evaporated @ ⁰ C	
	90 % v evaporated @ ⁰ C	
	FBP, ⁰ C	
(vii)	Mercaptan Sulphur, %w	IS: 1448 P:109/ASTM D:3227
(viii)	Residue, %v	IS: 1448 P:18
(ix)	Aromatics, %v	IS: 1448 P:23

(1.2) Safety Measures –

Special requirements are applicable for the production and storage of the formulations, as well as the storage of the primary products. The main safety issues relate to the flammability of white sprit.

Special attention should be given to proper storage in tropical climates. Open flames and smoking must be strictly prohibited in production and storage areas. Local and Central (bulk) storage must comply with fire regulations regarding the type of cabinet and store, respectively. National safety guidelines and local legal requirements must be adhered for the storage of ingredients and the final product. A designated 'highly flammables' store will be required for situations where it is necessary to store more than 50 liters.

(2) FIXED CAPITAL INVESTMENT

S.No.	Description	Value (Rs.)
(a)	Land & Building	
	Total area 250 sq. Mtrs. on rent	5,000 Per month

(b) Machinery & Equipment's			
Sr. No	Description	Rent per month	Value (Rs.)
1.	Storage vessel made of HDPE/PP/LLDPE 5000 Ltr. Cap.	2 Nos.	50,000/-
2.	Manual Filling Machine	1 No.	10,000/-
3.	Sealing Machine	1 No.	10,000/-
4.	Laboratory Equipment's & Office furniture	L.S.	50,000/-
5.	Firefighting Equipment's	L.S.	20,000/-
		Total	1,40,000/-
	Installation of Machinery & equipment's @ 10% of the cost	10%	14,000/-
	Pre-operative expenses	L.S.	10,000/-
		Total -	1,64,000/-

(3) WORKING CAPITAL REQUIREMENT:-

(a) Raw Materials per Month:

Sr. No.	Description	Quantity	Rate (Rs.)	Value (Rs.)
01.	White Sprit /Mineral Turpentine oil	8340 Lit.	55/-Per Ltr..	4,58,700/-
			Total	4,58,700/-

(b) Packing Materials Per Month:

Sr. No.	Description	Quantity (Nos.)	Rate (Rs.)	Value (Rs.)
01.	PET Bottles 1000ml.capacity with cap sealing.	8500 Nos	3/- per bottle	25,500/-
02.	Corrugated boxes for packing of 20 bottles of 1000 ml.	425	30 per box	12,750/-
03	Stickers / Labels	L.S.	Rs. 1/- per sticker	8,500/-
			Total	46,750/-
			Say	47,000/-

(c) Salary & Wages Per Month :

Sr. No.	Description	Nos.	Rate	Value (Rs.)
01.	Manager/ Supervisor / Chemist	01		self
02.	Unskilled labour	02	10,000	20,000
			Total : -	20,000
	Perquisites @ 15 %			3000/-
			G. Total	23,000/-

(d) Utilities Per Month :

Sr. No.	Description	Qty	Rate	Value (Rs.)
01.	Power	500 K.W.	Rs.7.50/unit	3,750/-
02.	Water			1,000/-
			G. Total	4,750/-

(e) Other Expenses Per Month :

Sr. No.	Description	Value (Rs.)
01.	Rent	5,000
02.	Telephone/Internet	1,000
03	Marketing & Traveling Expenses	5,000
04	Other Misc. Expenses	5,000
	Total-	16,000

(f) Working Capital for One Month:

Sr. No.	Description	Value (Rs.)
01.	Raw Materials	4,58,700/-
02	Packing Material	47,000/-
03	Salary & Wages	23,000/-
04	Utilities	4,750/-
04.	Other Expenses	16,000/-
	Total	5,49,450/-

(g) Working Capital for three month

Rs. 16,48,350/-
Say Rs.16,48,500/-

(4) CAPITAL INVESTMENT

(a) Fixed Capital	Rs.1,64,000/-
(b) Working capital for three month	Rs.16,48,500/-
Total:	Rs.18,12,500

(G) FINANCIAL ANALYSIS:

(a) COST OF PRODUCTION PER ANNUM :

Sr. No.	Description	Value (Rs.)
01.	Recurring expenditure	65,94,000/-
02.	Depreciation on Machinery & Equipment's @ 10% p.a.	7000/-
03.	Depreciation on Testing equipment's /furniture/ firefighting equipment's @ 25% p.a.	17,500/-
04.	Interest on capital investment @ 10 % p.a.	1,81,250/-
	Total	67,99,750/-
	Or say	68,00,000

(b) TURNOVER PER ANNUM

S.No.	Particulars	Qty (Nos)	Rate (Rs.)	Value (Rs.)
1.	Sale of 1000ml Mineral Sprit / Mineral Turpentine Oil	1,00,000	@75/-	75,00,000/-
			Total	75,00,000/-

(c) NET PROFIT PER YEAR :

$$\begin{aligned} \text{Net Profit} &= \text{Total turnover} - \text{Total cost of production Rs.} \\ &= 75,00,000/- - 68,00,000/- \\ &= \text{Rs. 7,00,000/-} \end{aligned}$$

(d) PROFIT RATIO ON SALES :

$$\begin{aligned} \text{Profit Ratio on Sales} &= \frac{\text{Net Profit}}{\text{Total turnover}} \times 100 \\ &= \frac{7,00,000}{75,00,000} \times 100 \\ &= \mathbf{9.33 \%} \end{aligned}$$

(e) RATE OF RETURN (ROR) ON TOTAL CAPITAL INVESTMENT:

$$\begin{aligned} \text{ROR} &= \frac{\text{Net Profit per annum}}{\text{Total Capital Investment}} \times 100 \\ &= \frac{7,00,000}{18,12,500} \times 100 \\ &= \mathbf{38.6 \%} \end{aligned}$$

(H) BREAK EVEN ANALYSIS :

(i) FIXED COST :

Sr. No.	Description	Amount (Rs.)
01.	Depreciation on Machinery & Equipment's	7,000/-
02	Depreciation on Testing equipment's /furniture/ firefighting equipment's	17,500/-
03.	Interest on Total Capital Investment	1,81,250/-
04.	40 % of Salary & Wages	1,10,400/-
05.	40 % of Other Expenses	52,800/-
06.	40 % Utility	22,800/-
07.	Rent	60,000/-
	Total	4,51,750/-

(ii) BREAK EVEN POINT (B.E.P.) :

$$\begin{aligned} \text{B.E.P.} &= \frac{\text{Fixed Cost}}{\text{Fixed Cost} + \text{Profit}} \times 100 \\ &= \frac{4,51,750/-}{4,51,750 + 7,00,000} \times 100 \\ &= \mathbf{39.22 \%} \end{aligned}$$

(I) NAME AND ADDRESSES OF STORAGE TANKS SUPPLIERS:-

SR.	DESCRIPTION
1.	M/s. Shree Balaji Engineers Works, G-677, No. 9F-2, V.K.I. Jaipur – 302 013
2.	M/s. Vartika Fibre, 11/ OD, 49 Muhana, Sanganer, Jaipur
3.	M/s. Saini Fabricators, HPCL Depot.Road, Chhitroli Stand, Near Tata Motor Yard, Bagru, Jaipur -303007
4.	M/s. Saanvi Engineers Services, Chhipatwara, Rewari
5.	M/s Sinlex FRP Tank Sunil Tube Company, Tripolio Bazar, Jaipur

(J) NAME AND ADDRESSES OF RAW MATERIAL SUPPLIERS:-

Sr.	DESCRIPTION
1.	M/s Bharat Petroleum Corporation Ltd., Marketing Office, Priyadarshini Building Sion-Trombay Road, Eastern Express Highway, Sion, Mumbai 400022 Note:- Marketing division of BPCL are available in all major cities.
2.	M/s. Sethiya Solvents & Chemicals, 177-d Lingappa Chetty Street, Gandhi Park, Coimbatore, Tamilnadu – 641 001
3.	M/s Goyal Finefab Pvt.Ltd., 41-42 Vasudev Estate, Behind Evergreen Hotel Narol Char Rasta, Narol, Narol ,Ahmedabad Gujarat 382 405
4.	M/s Srividya Hydrocarbons Pvt Ltd. 4/2-A, IInd Floor, Waterloo St. Kolkata West Bengal – 700 069

(K) NAME AND ADDRESSES OF PET BOTTLE SUPPLIERS:-

Sr.	DESCRIPTION
1	M/s. Dhiren Plastic Industries, No.12 B, Phase- III, Near Railway crossing, GIDC, Naroda, Ahamadabad – 382330 (Gujrat)
2	M/s. Chemco Group of Companies, Chemco House, 6 th Floor, D, Sukhadwala Road, Fort Mumbai (Maharashtra)
3	M/s. Gupta Industries, No.876 Defence Colony, Gujar Ghati, Amer Road,Jaipur – 302 001
4	M/s. A.G. Poly Packs (P) Ltd., Mandoli, Delhi – 110 093
5	M/s. Amogh Pet Container (P) Ltd., B-14, 22 Godam, Industrial Area, Jaipur.
