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PROJECT NO.	CLIENT	SECTION	DOCUMENT NO.	REV. NO.	PAGE NO.	ISSUE DATE
CBS-101	Enzyme Biodiesel	Biodiesel	CBS-FBR-2019	0	Page 1 of 9	04/05/2020

FEASIBILITY REPORT

TITLE : FEASIBILITY REPORT

CLIENT : Enzyme Based Biodiesel Plant

PLANT : 30 MT Per day BIODIESEL PLANT

LOCATION : Indian State with overseas comparision

PROJECT NO. : CBS-101

DOCUMENT NO. : CBS-FBR-2020

0	04/02/2020	PCS	CBS	CBS	FOR APPROVAL
REV. NO.	DATE	PREPARED BY	CHECKED BY	APPROVED BY	REMARKS

	Confidential Feasibility Report By Chetan Sayankar Biodiesel consultant. S-				
CONFIDENTIAL	Cube Mass Transfer Pvt. Ltd . This report will not be share to anybody				
	without consulting to Mr. Chetan Sayankar .				



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1. Preamble

Thank you very much for showing interest in S- Cube Mass Transfer Pvt Ltd Patented technology . In

accordance with the consultancy services interest offered by your company Biodiesel business

potential study.

This report encapsulates findings of the study carried out by the Consultant for data mining and for

gaining sufficient information of Multifeed stock based Biodiesel plant opportunities in India , USA &

rest of the World.

Based on the information gathered by the consultant, a preliminary assessment of

business potential for production of Multifeedstock like Palm oil, Corn oil, Animal Tallow, etc Biodiesel

is included in report.

2. What is Biodiesel?

Biodiesel refers to a non-petroleum-based diesel fuel consisting of short chain alkyl

(Methyl or ethyl) esters, made by Transesterfication of vegetable oil or animal fat which can be used

(alone, or blended with conventional petrodiesel) in unmodified diesel-engine vehicles. Biodiesel is

distinguished from the straight vegetable oil (SVO) (sometimes referred to as "waste vegetable oil",

"WVO", "used vegetable oil", "UVO", "pure plant oil", "PPO") used (alone, or blended) as fuels in some

converted diesel vehicles. "Biodiesel" is standardized as mono-alkyl ester.

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Biodiesel is a biofuel produced from various feedstock's including vegetable oils (such as oilseed, rapeseed and soya bean), animal fats or algae. Biodiesel can be blended with diesel for use in diesel engine vehicles. Biofuel – The term biofuel applies to any solid, liquid, or gaseous fuel produced from organic (once-living) matter. The word biofuel covers a wide range of products, some of which are commercially available today, and some of which are still in research and development. Biodiesel is a fuel made from plant oils that can be used in a conventional diesel engine.

Biodiesel is an environmentally safe, low polluting fuel for most diesels internal combustion and turbine engines. Can be mixed with petroleum diesel fuel and stored anywhere petroleum is. It is made from fresh or waste vegetable oils (triglycerides) that are a renewable energy source. Bio-diesel is an eco-friendly, alternative diesel fuel prepared from domestic renewable resources that is vegetables oils (edible & non-edible oil) and animal fats. These natural oils & fats are made up mainly of tryglycerides. These tryglycerides when reacted chemically with lower alcohols in presence of catalyst result in fatty acid esters. These esters show striking similarity to petroleum derived diesel and are called "Bio-diesel".



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Enzymatic vs Chemical Process

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Parameter	Enzymatic Process	Conventional Process
Reaction Temperature (°C)	Low Energy 10 – 40 °C	High Energy 60 -70 °C
Feedstock	Any purity Feedstock	Only Pure Veg Oil
% FFA in Feedstock	FFA Transformed into EE	Makes SOAP with FFA !! Should be pre-
1-99% FFA	(down to 2% FFA)	treated in an acidic process for removal !!
Water in Feedstocks	No effect on biocatalyst	Destroys Catalyst - Interferes with the
	(up to 5% H2O)	catalyst and results in producing soaps.
EE yield	>95%	Typically 95%
Glycerin quality	Transparent, and salt-free	Black-brownish, pH > 7 & contains salt
Catalyst removal	The biocatalyst is (Recyclable)	The final products require repeated washings for removal of the catalyst
Alcohol recovery	No excess of alcohol	Large Excess alcohol (% water is
	(water level (up to 5%)	prohibited) requires stripping from the
		final products
Waste generation	Extremely low waste	Large Waste- saline/alkaline and
		catalyst waste H2O
Capital costs	Low - retrofitting enzymatic reactor	High CAPEX
	possible	

3. Overview of the Study Objectives

Bio-Diesel Production in India

What is Bio-Diesel Production?

India is considered to be a diesel- deficit nation. Its production in India is not as per its rapidly growing demand. In order to overcome this deficiency, bio-diesel startup is the need of the hour in India. As it is considered to be a good substitute for conventional diesel. It is a renewable fuel that doesn't pollute the environment and can comfortably work on any diesel-powered machine.

"Small and medium enterprises have bought Biodiesel and sold to individual consumers and Progressive farmers, in order to supply energy for brick kilns, backup power diesel generators etc."



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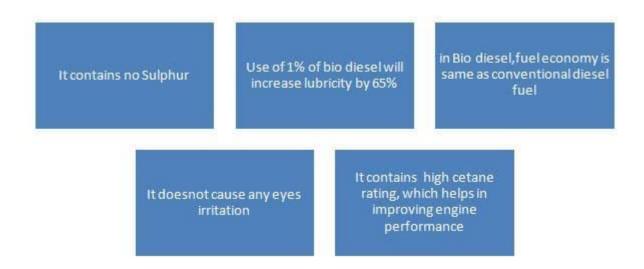
What will be the Investment and opportunities in the production of Bio-diesel in India?

From the analysis, it has been predicted that bio-diesel production requires an investment of amount 20 - 30 crore in India with a profit margin of up to 15%.

How much is the growth of Bio-diesel production in Global Market?

It has been predicted from the expert report that the market of Bio-diesel production has increased from \$82.7 billion in 2011 to \$185.3 billion in 2021. It has also been noticed that there had been a steady growth in 2016 but the rapid increase in production between 2017 and 2021 due to higher oil prices, emerging mandates, and advanced technologies. It has been concluded that global biofuel production will reach 65.7 billion gallons per year (BGPY) by 2021.

What are the advantages of Bio-diesel as fuel?



How to make Bio-diesel?

To make Bio-diesel, hydrocarbons (i.e oil or fats) are filtered and get mixed with an alcohol, which are usually methanol and a catalyst. Ester and glycerol bio-diesel fuel, are the major products of this reaction which have been used for commercial purposes.



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What is the effect of GST on Bio-diesel production in India?

Initially, with the implementation of GST 18% is a levy on Bio-diesel and ethanol, which has adversely impact the growth of the industry. The manufacturers applied to the department for reducing the rate to 5%. But currently, it has been reduced from 18% to 12%.

What steps to be considered before starting Bio-diesel plant?

Complete research regarding the Bio-diesel Production

Before initiating a biodiesel production company, it is mandatory to spend time and money on research and feasibility studies related to the bio-diesel production.

Formation of Business Plan

For initiating this business, it is mandatory to prepare a prior business plan that clearly describes business and outline goals that leads towards the success of the business. It is an indeed document that describes the future of business.

Selection of Location

The decision has to be taken regarding the location where to set up the plant for Bio-diesel Production.

What Licenses and permits are required for Bio-diesel Production?

Company Registration:

• For establishing the business of Bio-diesel Production, the applicant first registered its entity in the form of Partnership, Company, Limited Liability Partnership.

Factory Licenses:

• District factory Inspectorate approval is required for setting up of the factory of Bio-diesel production.

Pollution Control Board Clearance:

• In spite of ignoring this fact that, Multi-feedstock Biodiesel Processing Plants are non-polluting, it is mandatory to obtain clearance of pollution control board.



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Explosive License:

 An Explosive License is required from the Directorate of Explosive for the storage of Methanol.

At what rate, Import duty is charged on Biodiesel?

As Import of Biodiesel, Come in the following two categories:



How much Biodiesel is exported from India?

It has been analyzed that, in 2016, India has exported 53 million liters of B-100 at an estimated value greater than \$27 million. Philippines, China, Malaysia, Spain, Netherlands, UAE, Nepal, and Kenya are the main (re-)export destinations.

To meet the increasing energy needs of the country and to provide Energy Security, National Policy on Biofuels was announced in December 2009. The major goals of the policy are Development and utilization of indigenous non-food feed stocks raised on degraded or waste lands, thrust on research and development on cultivation, processing and production of biofuels and a blending mandate of 20% Ethanol and Bio-diesel by 2017. The Policy can be seen at National Policy on Biofuels

The objective of biofuel programme is to support R&D, Pilot plant/Demonstration projects leading to commercial development of 2nd Generation biofuels. The ministry supports R & D projects for development of technologies for production of biofuels through Biogas, Pyrolysis and Gasification, besides promoting deployment of technologies for pilot and full-scale projects on biofuels in general.



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FSSAI in talks with industry to convert used-cooking oil into bio-diesel NEW DELHI, JULY 2

With the new regulations for monitoring "used cooking oils" coming into force from July 1, the Food Safety and Standards Authority of India (FSSAI) on Monday said the implementation of these regulations will require focus on consumer education, enforcement as well as creation of an eco-system for collection of "used cooking oil" to produce biodiesel.

FSSAI said it is in discussion with the Indian Biodiesel Association to establish a nation-wide eco-system for collection of used cooking oil and its conversion to bio-diesel.

The new regulations have set the maximum permissible limit of Total Polar Compound (TPC) in edible oil at 25 per cent. Repeated frying and usage of edible oil changes its physiochemical and nutrition properties and leads to the formation of TPC, which makes it unfit for human consumption.

"From July 1, onwards, all Food Business Operators (FBOs) would be required to monitor the quality of oil during frying by complying with the said regulations," FSSAI said in a statement. The Food Authority has also established testing protocols for Total Polar Compounds.

Pawan Agarwal, CEO, FSSAI, said effective implementation of used cooking oil standards require "Triple E strategy" and a co-ordinated effort.

"First 'E' in the 'Triple E Strategy' is 'Education' that is educating both the consumers and food businesses about public health consequences of spoiled 'used cooking oil'. Second 'E' is 'Enforcement', particularly amongst large food processing plants, restaurants and fast-food joints that are frying food in large quantities; and the third 'E' is developing an 'Ecosystem' for collection of used cooking oil and producing biodiesel from it", he added.

FSSAI has also advised State Food Safety Commissioners to focus on awareness and education programmes, surveillance and enforcement activities for these new set of regulations. "Annually, about 23-million tonne cooking oil is consumed in India. There is potential to recover and use about 3 million tonnes of this for production of bio-diesel," FSSAI added.

As of now, used cooking oil is either not discarded or disposed in an environmentally hazardous manner and sometimes even finds it way to smaller restaurants, *dhaabas* and street-vendors.



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The Biodiesel industry in USA is growing year by year for last many years and still growing mainly to control greenhouse gas emission and global warming.

Production - U.S. production of biodiesel was 126 million gallons in February 2018. Biodiesel production during February 2018 was 2 million gallons higher than production in January 2018. Biodiesel production from the Midwest region (Petroleum Administration for Defense District 2) accounted for 68 percent of the United States total. Production came from 96 biodiesel plants with capacity of 2.4 BGY.

Sales - Producer sales of biodiesel during February 2018 included 48 million gallons sold as B100 (100% biodiesel) and an additional 70 million gallons of B100 sold in biodiesel blends with diesel fuel derived from petroleum.

Feedstocks - There were a total of 953 million pounds of feedstocks used to produce biodiesel in February 2018. Soybean oil remained the largest biodiesel feedstock during February 2018 with 496 million pounds consumed.



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4. Payback Period for 30 MT Per day

Sr No	Description	Cons/day	Unit	Rate (Rs)	Rate (\$)	Total Expenses (Rs)	Total Expenses (\$)
1	Feedstock (Palm , UCO, etc)	34885	Lit	30	0.77	1046543.8	26861.29
	,	31745	Kg	33	0.85		
2	Enzyme	89.84	Lit	1560	53	140158	4761.8
3	Methanol	4509	Lit	28	0.40	126259	1803.7
4	Sodium Bicarbonate	635	kg	25	0.40	15873	253.96
5	H2SO4 (93 % V/V)	19.41	Lit	35	0.69	679	13.39
6	Phosphoric Acid (85% w/w)	565.2	Lit	76	0.52	42955	293.90
7	Bleaching Earth (Daitomaceous Earth) (99 % w/w)	476.2	kg	32	0.22	15238	104.8
8	Power Consumption	5143	Units	7	0.12	36000.0	617.14
9	Water	30	Lit	1	0.15	30	4.5
10	Natural Gas For Thermic Fluid Heater	8400	m3	11	0.26	92400	2184.00
11	Steam Consumption (Optional)	131765	kg	1	0.01	131764.7	1317.65



	Total C	Cost				1516135	36898
	Cost Of Product	47	1.137				
Sr No	Description	Production	Unit	Rate (Rs)	Rate (\$)	Total Expenses (Rs)	Total Expenses (\$)
1	Technical Glycerine	2442	Lit	65	1.92	158726	4688.5
		3174.5	kg	50	1.48		
2	Bio Diesel	32442.9	Lit	59	1.31	1914128	42500.1
		28549.7	Kg	67.0	1.49		
Sr No.	Description	Unit	Val. Ind	Val. USA			
1	Raw Material Including Chemical ,Enzyme Stock	Days	1	5			
2	Average Salary /Person/Month	NA	40000	2000			
3	Interest on Term loan	%	12%	14%			
4	Interest on Working Capital	%	12%	12%			
5	Sales Expenses	%	3%	2%			
6	Administrative Expenses	%	1%	2%			



7	Deprecation Rate	%	10%	6%	
8	Tax Rate	%	30%	11%	
9	Utilities Cost factor	NA	1.4	1.3	
10	RIN Credit (USA Only)	\$/lit of Biodiesel	NA	0.26	
11	No of Employee in Biodiesel Plant	No	27	27	



Proi	ect Investment (INR)					
1.0	eet mvestment (mm)					
Sr	Description	INR (lac)	\$ (US	Cost to	Cost to	
No		()	Dollar)	Consultan	consulta	
			20,	t (lac)	nt \$ (US	
-				· (,	Dollar)	
1	Land and Land	150	223880			
	Development (5Acr)					
2	Civil & Structure	400	597014			
3	Main Plant and	2522	3764179			
	Machinery					
4	Air compressors	16.8	23400	12	18000	
5	Hot oil Boiler	77	105300	55	81000	
6	Chiller System	35	46800	25	36000	
7	Nitrogen System	15.4	15600	11	12000	
8	Cooling Tower	0	0	0	0	
9	Storage Tanks	0				
	(Biodiesel, Crude					
	Glycerine, Technical					
	Glycerine, Methanol					
	,Crude Oil)					
10	Balance of Electrical	0				
11	Fire Fighting, Lab	0				
	Equipment, Weight					
	Bridge and					
	Miscellaneous					
12	Yard Piping					
13	Water Treatment Plant					
14	Transportation,					
	Insurance ,GST etc.					
15	Contingencies	45	67164			
16	Working Capital	208	511391.7			
	Total	3469.36	5354728	NA	NA	
Sale	s Revenue					
Sr	Type of Product	Qty	Rate Rs	Sales	Rate \$	Sales
No		MT/Ann	/MT	/Annum	/MT	/Annum
		um		(Lac)		(\$)
1	Bio Diesel	9992	67045.5	6699.5	1488.64	1487505
						0



2	Tech Glycerine	1111	50000	555.5	1476.92	1640980	
_	Total		30000	7255.0	11,0132	1651603	
				7 = 3 3		0	
Expe	enses (Per Annum)						
Α	Variable Expenses						
Sr	Type of Product	Qty Per	Rate Rs	Uom	Sales	Rate \$	Sales
No		/Annum			/Annum		/Annum
•					(Lac)		(\$)
1	Crude Corn Oil (MT)	11110.8	32967.0	MT	3662.90	846.2	9401451
2	Natural Gas (M3)	2940000	11	М3	323.40	0.26	764400
3	Electricity (Unit)	1800000.	7	Unit	126.00	0.12	216000
		0					
4	Chemicals				1194.1		2531021
	Total				5306.4		1291287
							3
В	Fixed Expenses						
Sr	Description	Value	Rate (Lac)	Rate \$			
No							
•							
1	Equity	40%	1387.7	2141891.			
2	Term loan	60%	2081.61	3212837.			
	Total		3469.3	5354728			
	Working Capital						
Sr	Description	Rate	Rate \$				
No		(Lac)					
•							
1	Raw Material Including	208	511391.7				
	Chemical, Enzyme						
	Stock						
	Final Forest Dog 6						
	Fixed Expenses Per Annu	m					
C	Description:	D-4-	D-4				
Sr	Description	Rate	Rate				
No		(Lac)/An	(\$)/Annum				
	Interest on Town Inc.	num	440707.3				
а	Interest on Term loan	249.79	449797.2				
b	Interest on Working	24.98	61367.01				
	Capital	217.05	220220.6				
С	Sales Expenses	217.65	330320.6				



d	Salary 9. Magos	129.6	648000	
	Salary & Wages Administrative	72.55	330320.6	
е		72.55	550520.0	
	Expenses	CO4 57	1010005	
	Total	694.57	1819805	
C	Description	Data	D-+-	
Sr	Description	Rate	Rate	
No		(Lac)/An	(\$)/Annum	
•		num		
1	Fixed Expenses	694.6	1819805	^
2	Variable Expenses	5306.4	12912873	
3	Total expenses	6000.9	14732679	
Cont	ribution			
Sr	Description	Rate	Rate	
No		(Lac)/An	(\$)/Annum	
•		num		
1	Sales Revenue	7255.0	16516030	
2	Total Expenses	6000.9	14732679.	
			0	
3	Contribution	1254.0	1783351	
Depi	reciation			
Sr	Description	Rate	Rate	
No		(Lac)/An	(\$)/Annum	
•		num		
1	Depreciation @ 10 % of	346.94	321283.7	
	Project Investent			
Gros	s Profit			
Sr	Description	Rate	Rate	
No		(Lac)/An	(\$)/Annum	
		num		
1	Gross Profit	907.1	1462068	
Tax o	on Gross Profit			
Sr	Description	Rate	Rate	
No		(Lac)/An	(\$)/Annum	
		num		
1	Tax on Gross Profit	272.1	160827.5	



Drof	it After Tax			
PIOI	IL AILEI TAX			
Sr	Description	Rate	Rate	
No	Description	(Lac)/An	(\$)/Annum	
		num	(7)/Ailliaill	
1	Profit after Tax	635.0	1301240	
	Profit after rax	033.0	1501240	
Mor	ney Generation			
IVIOI	iey Generation			
Sr	Description	Rate	Rate	
No	Description			
NO		(Lac)/An	(\$)/Annum	
•	Manay Consention	num	1201240	
1	Money Generation	981.9	1301240	
DIN	Cuadit			
KIN	Credit			
C .	D	B.1.	Ditte	
Sr	Description	Rate	Rate	
No		(Lac)/An	(\$)/Annum	
•	- W.	num		
1	RIN Credit	NA	2952300	
Payl	back Period			
Sr	Description	Year	Year (USA)	
No		(Ind)		
•				
1	Payback Period	3.53	1.3	



SECTION A) EQUIPMENT:-								
AREA/TRAIN	SECTION	EQUIPMENT	Prices for	30TPD in INR				
	ESTER/TRANSESTERIFICATION	SCMT-ENZ-T-903	INR	1,528,676.48				
		SCMT-ENZ-T-905	INR	1,528,676.48				
		SCMT-ENZ-T-901	INR	1,104,044.10				
		SCMT-ENZ-CF-T-901	INR	182,591.93				
		SCMT-ENZ-CF-T-902	INR	182,591.93				
		SCMT-ENZ-CF-901	INR	182,591.93				
		SCMT-ENZ-CF-902	INR	182,591.93				
BIODIESEL TRAIN		SCMT-ENZ-PFT-901	INR	262,500.00				
		SCMT-ENZ-PFT-902	INR	337,500.00				
		SCMT-ENZ-MIX-901	INR	24,150.00				
		SCMT-ENZ-MIX-902	INR	19,500.00				
		SCMT-ENZ-MIX-903	INR	22,500.00				
		SCMT-ENZ-MIX-904	INR	20,325.00				
		SCMT-ENZ-MX-903(STATIC AGITATOR		24,150.00				
		SCMT-ENZ-MX-905(STACTC AGITATO	INR	24,150.00				
		SCMT-ENZ-MX-901(STATIC						
OIES		AGITATOR)	INR	24,150.00				
ОО	COALESCER	SCMT-COA-COA-1001	INR	573,253.50				
ω		SCMT-COA-COA-1002	INR	573,253.50				
		SCMT-COA-PFT-1001	INR	412,500.00				
		SCMT-COA-PFT-1002	INR	337,500.00				
	ESTER GUARD BED	SCMT-BD10-T-1101	INR	1,104,044.10				
		SCMT-BD10-PFT-1101	INR	34,125.00				
		SCMT-BD19-T-601	INR	1,104,044.10				
	ESTERIFICATIO ESTERIFI N FLASH CATION VESSEL RESIN	SCMT-BD20-T-701	INR	1,104,044.10				
		SCMT-BD20-MX-701	INR	34,125.00				
		SCMT-BD20-T-702	INR	300,000.00				
		SCMT-FS-T-801	INR	417,116.33				
		SCMT-FS-T-802	INR	808,160.33				
		SCMT-FS-T-803	INR	417,116.33				
		SCMT-FS-PU-803(LIQUID RING						
		VACUUM PUMP)	INR	192,433.50				



		 	-	
GLYCERIN SECTION	GPU FLASH EVAPORATOR	SCMT-GPU-T-2801	INR	1,295,383.43
		SCMT-GPU-V-2802	INR	808,160.33
		SCMT-GPU-T-2802	INR	417,116.33
		SCMT-HEX-2801	INR	525,000.00
	FFA SODIUM SEPERATOR EV	SCMT-GPU-T-2804	INR	2,625,000.00
		SCMT-GPU-T-2905	INR	1,295,383.43
		SCMT-GPU-COA-2901	INR	2,675,183.85
		SCMT-GPU-T-2901	INR	559,200.00
SEC		SCMT-GPU-T-2906	INR	417,116.33
Z		SCMT-GPU-T-2907	INR	1,295,383.43
GE GE		SCMT-GPU-T-2902	INR	1,875,000.00
\\		SCMT-GPU-V-2908		
J		SCMT-GPU-HE-2901	1	
		SCMT-GPU-HE-2902	-	
_		SCMT-FILTER	INR	2,625,000.00
	Z ı	SCMT-CC-VSL-3101	INR	743,100.00
	ARBOI BED ESSEI	SCIVIT CC VSL STOT	IIVIX	743,100.00
	CARBON BED VESSEL	CCNAT CC VCL 2402	INID	742 100 00
		SCMT-CC-VSL-3102	INR	743,100.00
	GLYCERIN DISTILLATION	SCMT-GPU-WFE-3001	-	
		SCMT-GPU-T-3001	-	
		SCMT-GPU-T-3002	-	
	G SIS	SCMT-GPU-T-3003	INR	4,950,000.00
		SCMT-SRXC-VSL-1801	IINK	4,950,000.00
7	METHANOL WATER COLUMN UNIT		-	
Į.		SCMT-SRXC-T-1802	-	
EG	MET W	SCMT-SRXC-T-1801	IND	2 522 024 05
COLUMN SECTION	2 -	SCMT-SRXC-T-1803	INR	2,532,931.95
Σ	Z	SCMT-BD-VSL-1301	-	
סוו	BIODIESEL DISTLLATION COLUMN	SCMT-BD-T-1301	-	
55		SCMT-BD-T-1302	-	
		SCMT-BD-T-1303	-	
		SCMT-BD-T-1304	-	
		SCMT-HEX-1301(REBOILER)	-	
		SCMT-BD-HE-1301(PREHEATER)		
		SCMT-BD-HE-1304 (AIR COOLER)		
		SCMT-WASTE TANK	INR	9,375,000.00
		Total Equipment Cost	INR	47,819,464.58

SECTION B) INSTRUMENTS, MCC/PLC, STRUCTURE:-			Price	
Instrument Cost			INR	9,399,981.75
MCC PLC Cost			INR	5,639,988.75
Utility Cost-Storage Tanks, Cooling Tower, etc. (Client Scope)			INR	18,799,962.75
Structure			INR	14,099,972.25
SECTION C)	Total Cost		INR	47,939,905.50
Basic Engineering & Detail Engineering			INR	6,332,485.50
Erection, Installation & Commissioning support		•	INR	2,848,194.00
Contingency & Risk Factor			INR	4,746,990.75
(SCMT Charges Instllation & Local Company) etc		INR	33,228,900.00	
SECTION D)	Total Cos	t (Inclusively Item A, B & D)	INR	190,855,845.83



