

Name of Borrower : M/s. SLR ENERGY

Branch : 0280-CUDDALORE

RO : 9005-CHENNAI REGION

Purpose of Note : Sanctioning of credit facilities (Fresh Term Loan (Proj) and Working Capital)

10.1 Fresh Term loan assessment:

Details of Fresh Term Loan if any : Yes

10.1.1 Proposal :

The present proposal is for setting up of Compressed Bio-gas and Bio-fertilizer plant with an installed capacity of 7000 Cum per day along with Bio gas bottling unit with total project cost of Rs.879.83 Lacs including IDC of Rs.55.00 Lacs.

10.1.2 Cost Of Project & Means of Finance:

A.TERM LOAN APPRAISAL

(Rs. in Lakhs)

(In case of Term Loan /Project Finance covering revised cost, comparison between original revised cost and original / revised sources be given)

Cost	Amount	Means	Amount
Land	0.00	Equity :	264.83
Building	124.83		
P & M	550.00		
Other assets	150.00	Debt :	615.00
WC Margin	0.00		
IDC	55.00		
Total	879.83	Total	879.83
Debt Equity Ratio			2.32

** for New Project

Upfront Equity : 264.83

Equity as on : 27-08-2019

Equity already infused : 54.60



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CUDDALORE- 607 002.
Phone: 04142- 236374

Description of the term loan

M/s. SLR Energy is a partnership firm constituted on 02/03/2018. There are four partners in the firm with equal share of 25%. The registered office of the firm as per partnership deed is at No.39,Kuzhanthaikuppam, Vanamadevi Post, Cuddalore, Tamil Nadu.

A new project of establishing Compressed Bio-gas bottling and Bio-fertilizer plant with and installed capacity of 7000 cum per day is proposed by the firm in consultation with M/s. CEID Consultants & Engineering Private Limited (who will provide the complete solutions starting from Planning, Designing and Installation of the project).

Compressed Bio-gas can be produced from any type of Organic Material, most times; Bio Gas is produced from Organic Waste. This waste comprises Cow Dung, Sugar Cane Waste, Poultry Waste, Industrial Waste, Agricultural and Crop Waste etc. Bio-gas is an excellent fuel for heating & cooking purposes as well as for generating electricity. Compressed Bio-gas can be used in cooking purpose as well in industries like: Plastic Tank Manufactures, Hotels, Restaurant, Canteens and it can also be used in Kiln etc. in place of Furnace Oil, LDO etc..

M/s. SLR Energy has allotted the EPC contract to CCEPL (EPC Contractor) for construction & commissioning of Plant. The CCEPL is the empanelled vendor by the Ministry of New and Renewable Energy. The CCEPL has also participated jointly with the Ministry of New and Renewable Energy (MNRE) on several projects. The projects undertaken by the CCEPL are also awarded by the World Bank. The CCEPL has all the technical knowhow. As per the EPC Contract dtd. 26.03.2018 the CCEPL is responsible for Running, Maintenance & Generation of minimum 2800 KG/day Bio-Gas & 13500 KG Bio-CNG/day, its purification, bottling and fertilizer generation continuously for next 1 year from commissioning of the plant. Moreover the plant is fully automatic & every aspect is being taken care by Machinery itself.

The CCEPL will provide the following for establishing the plant;

1. Basic & Detail engineering for generation of 7000 cum per day Bio CNG Bottling & Fertilizer Plant (with multiple bio-degradable waste) with complete & required utilities & storage.
2. Procure & installation of Bio-Gas generation, Bio-Gas purification, Bio-Gas bottling system, Utilities, Storage Tanks, pumps, piping, electrical, instrumentation and other related facilities except high pressure cylinders or cascades.
3. Supply and installation of all machinery, loading/unloading, pipelines with required pipe fittings as per drawings and documents.
4. Supply and erection of required instrumentation for the plant
5. Supply and erection of pumps with motors for Raw Material & product



6. Supply and erection of electrical items for the plant
7. Testing and performance of all equipment's and machinery till handed over for the pre commissioning.
8. Contractor is solely responsible to construct the plant facilities as per safety and environmental norms & smooth and safe working during the course of project
9. Ensuring the successful performance of the created plant & infrastructure for the minimum period of 12/18 months as per the guaranteed period.
10. Training of owner staff for 360 days with subject to condition 12 month minimum operation & maintenance work to CEID.
11. Assisting the owner in running & maintenance of plant for 12 months only

The plant site has been chosen looking at the following locational advantages:

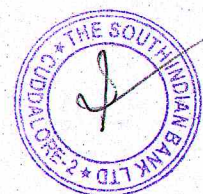
Availability of requisite area and dimensions of the Plot:- The proposed project is coming up at Kuzhandai Kuppam, (Cuddalore) Tamil Nadu.

Availability of Infrastructural facilities:- All infrastructural facilities such as labour, water, power, transportation are easily available. Cuddalore being a well-developed area, the manpower requirement for the proposed project would easily be satiated from the nearby regions.

Proximity to major markets for the finished product:- The site is in Kuzhandai Kuppam which is well connected with nearby Cuddalore. There are various types of Industries available in which the end products will be used as a Raw Material. SLR Energy would also enjoy smooth and uninterrupted movement of Raw Material

The firm has obtained approval from PESO (Petroleum and Explosives Safety Organization under Ministry of commerce and Industries, Govt of India) for construction of the proposed plant.

The Firm is reporting for entitlement for central capital subsidy of about Rs. 233.33 Lakh for the proposed project:- The subsidy entitlement is as per Government of India, Ministry of New and Renewable Energy (Waste to Energy Division) F. No./20/222/2016-17-WTE Dated 30.07.2018. As per the scheme, the unit is eligible for Rs. 4.00 Cr. Subsidy per 4800 kgs. of Bio CNG/day Generated from 12000m³ Biogas/day. Accordingly the subsidy amount comes to Rs. 3333.33 per m³. In this case the unit is going to produce 2800 kgs. of Bio CNG/day Generated from 7000m³ Biogas/day. So the unit is eligible for a subsidy of Rs. 233.33 Lakh. The unit will get Rs. 233.33 Lakh as subsidy.



Costs to be incurred

Bank Finance required are as follows :

Total project cost considered including IDC:- **Rs.879.83 Lacs**

Margin offered by promoters:- **Rs.264.83 Lacs @30% of project cost.**

Term Loan requested including IDC:- **Rs.615.00 Lacs**

Debt-equity ratio:-**2.32:1**

Door to door tenure:- **96 Months**

Moratorium period :- **12 Months from disbursement.**

DCCO:-**01/05/2020**

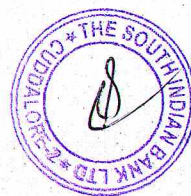
Repayment period:- **84 Months**

Type of repayment:- **Non EMI**

Principle repayment:- **84 equal instalments**

Interest repayment:- **To be serviced as and when debited.**

Considering the margin offered @30%, 100% collateral security, we may allow Term Loan (Project) of Rs.615.00 Lacs as above in the applicant account.



Annexure 4- Appraisal Memorandum for Term Loan

Fresh Term loan assessment:

Proposal : For developing a Bio CNG Bottling & Fertilizer plant having capacity 7000 cum from multiple bio-degradable wastes, Biogas Generation Unit, Biogas Purification & Bottling unit at Kuzhandai Kuppam Village, Cuddalore TK & District.

Cost Of Project & Means of Finance:

A.TERM LOAN APPRAISAL

		(Rs. in Lakhs)	
Cost	Amount	Means	Amount
Land	9.00	Equity :	319.47
Building	124.83		
P & M	700.00		
Other assets		Debt :	615.00
WC Margin	59.76		
IDC	40.88		
Total	934.47	Total	934.47
Debt Equity Ratio			1.92

** For New Project

Upfront Equity : 15.00

Equity already infused : 15.00

Equity as on : 15.00

Description of the term loan

For developing a Bio CNG Bottling & Fertilizer plant having capacity 7000 cum from multiple bio-degradable wastes, Biogas Generation Unit, Biogas Purification & Bottling unit at Kuzhandai Kuppam Village, Cuddalore TK & District.

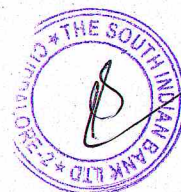
Production Table:

Additional details, if required

APPRAISAL

Costs to be incurred Bank Finance required are as follows:

Marketing, Commercial Viability (BEP, Sensitivity Analysis)



Other Remarks

Security Margin

Repayment Schedule

Term loan particulars	Do or to do or	Moratorium	Frequency of payment	Repayment period	Availability period	Installment amount	Moratorium period interest	Type of Installment
TL	66	6 months from COD / 12 months from date of disbursement	monthly	60	60	2,14,940	To be serviced	monthly



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