



SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

#6-1-50, Corporate Office, Mint Compound, Hyderabad

website www.tgsouthernpower.org

From

The Chief Engineer/IPC&RAC,
TGSPDCL, Corporate Office,
6-1-50, Mint Compound,
Hyderabad- 500 063.

To

The Commission Secretary,
TGERC, Vidyut Niyantran Bhavan, Sy.No.145-P,
GTS Colony, Kalyan Nagar,
Hyderabad – 500 045.

Lr.No. CE(IPC&RAC)/DE(IPC)/F.SVGPPL/D.No. 604 /2026-27, Dt:30-05-2026

Sir,

Sub:- TGSPDCL - IPC - TGSPDCL filed petition seeking approval under Section 86(1)(b) of the Electricity Act, 2003 and Section 21(4) of the Telangana Electricity Reforms Act, 1998 for (i) procurement of power from the 14 MW MSW-based Waste-to-Energy Power Project of M/s. Sri Venkateswara Green Power Projects Limited at Yacharam (V&M), Rangareddy District and (ii) approval of the PPA proposed to be entered into between TGSPDCL and the said company – Submission of Additional Information – Reg.

Ref:- Lr.No. E/F.No. 944603/D.No.382/26-27, Dated: 21.05.2026.

With reference to the above cited letter from the Hon'ble Commission, TGSPDCL hereby submits the following information as required:

1. CLARIFICATION ON FUEL TYPE (RDF vs. MSW)

It is respectfully submitted that M/s. Sri Venkateswara Green Power Projects Limited (SVGPPL) had originally proposed to use Refuse Derived Fuel (RDF) for the Waste-to-Energy Power Project at Yacharam, based on which the initial approval was accorded by TGREDCO. Subsequently, the company represented that it would use Municipal Solid Waste (MSW) as the primary fuel for the project and accordingly obtained the necessary amendment to the Pollution Control Board (PCB) consent/authorization. Consequent upon the said amendment by PCB, the proceedings issued by TGREDCO were also amended to reflect MSW as the fuel for the project.

In view of the above, the mention of MSW as fuel in the present petition filed before the Hon'ble Commission is in accordance with the amended PCB authorization and the amended proceedings of TGREDCO. The petition is therefore correctly reflecting the current approved fuel for the project. Copies of the PCB amendment and the amended TGREDCO proceedings are enclosed herewith for reference.

2. TECHNICAL AND FINANCIAL PARAMETERS

a) Technical Parameters:

The relevant technical parameters of the project are as under:

Installed Capacity	14 MW
Auxiliary Consumption	Hon'ble Commission may specify the percentage of Auxiliary Consumption while determining the project specific tariff for the project.
Net Export Capacity	Net Export Capacity shall be equal to the Installed Capacity less Auxiliary Consumption of the project.
Plant Load Factor (PLF)	The Hon'ble Commission may specify the PLF while determining the project specific tariff for the project.
Synchronisation Procedure	Hon'ble Commission may provide a standardized synchronization procedure for the Waste-to-Energy (WtE) based power plants in the State.
Commercial Operation Date (CoD)	The procedure for declaration of CoD may also be prescribed by the Hon'ble Commission for Waste-to-Energy (WtE) based power plants in the State.

b) Financial Parameters:

The financial parameters may be considered as per the applicable norms/guidelines in force.

3. DOCUMENTS SUBMITTED

The following documents as called for by the Hon'ble Commission are enclosed herewith:

S. No.	Document	Annexure
i.	Approved Detail Project Report (DPR)	Annexure-I
ii.	Fuel Supply Agreement	Annexure-II
iii.	G.O Ms. No. 413, Dated 01.06.2008 issued by GoAP (delivery of 700 MTS MSW/day)	Annexure-III
iv.	Concession Agreement with GHMC Dated 10.11.2010 and all subsequent modifications / amendments / Novation agreements	Annexure-IV
v.	MoU between TGREDCO & SVGPPPL Dated 15.10.2016 (12 MW Waste-to-Energy Project)	Annexure-V
vi.	G.O. No. 448, Dated 26.07.2017 – MA&UD, Govt. of Telangana (700 TPD MSW supply by GHMC to Yacharam site)	Annexure-VI
vii.	G.O Rt No. 964, Dated 30.12.2025 – GHMC NOC for WTE capacity expansion from 12 MW to 14 MW	Annexure-VII
viii.	Any other documents relevant to the project / PPA 1. Consent Order for Establishment (Amendment) 2. TGREDCO Amendment Order	Annexure-VIII & IX

It is humbly requested that the Hon'ble Commission may kindly consider the above submission and take the petition on file for further proceedings.

Encl: 1. Copies of the PCB Consent Order for Establishment (Amendment) & the
TGREDCO Amended Order as mentioned above.
2. Annexures I to IX as mentioned above.

Yours faithfully,


Chief Engineer/ IPC&RAC

Copy to:

M/s. Sri Venkateswara Green Power Projects Ltd.,

P.No.252-A, Lotus Pond Road, MLA Colony, Road No.12, Banjara Hills, Hyd -034.

DETAILED PROJECT REPORT ON

14 MW Waste to Energy Power Project based on Municipal Solid Waste

By **SRI VENKATESWARA**
GREEN POWER PROJECTS LIMITED (SYGPPL)

Yacharam Village & Mandal,
Ranga Reddy District, Telangana.



**Detailed Project Report
On
SRI VENKATESWARA GREEN POWER
PROJECTS LIMITED (SVGPPPL)**

***Project for Setting up a Waste to Energy Power Plant
At
Yacharam Village & Mandal, Ranga Reddy District,
Telangana***

**For
Bank/FIs**

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Disclaimer: All information contained in this report has been obtained from sources believed to be accurate by **Shreekari Business Consulting & Research Pvt. Ltd (Shreekari)**. While reasonable care has been taken in its preparation, Shreekari makes no representation or warranty, express or implied, as to the accuracy, timeliness or completeness of any such information. The information contained herein may be changed without notice. All information should be considered solely as statements of opinion and Shreekari will not be liable for any loss incurred by users from any use of the publication or contents.

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*DPR on Setting up a 14 MW Waste-to-Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

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Abbreviations

SVGPPPL:	Sri Venkateswara Green Power Projects Limited
SVHPPL:	Sri Venkateswara Hydro Power Project Limited
BFIS :	Bank/FIs
WTE:	Waste-to-Energy
SWM:	Solid Waste Management
MSW:	Municipal Solid Waste
MSWM:	Municipal Solid Waste Management
TSPCB:	Telangana State Pollution Control Board
TSPDCL:	Telangana State Southern Power Distribution Company Limited
TNPDCL:	Telangana State Power Distribution Company Ltd
TSERC:	Telangana Electricity Regulatory Commission
GHMC:	Greater Hyderabad Municipal Corporation
TSTRANSCO:	Transmission Corporation of Telangana Limited
TSSPDCL:	Telangana State Southern Power Distribution Company Limited
TMC:	Town Municipal Council
MW:	Mega Watt
CDM:	Clean Development Mechanism
NCE:	Non-Conventional Energy
PPA:	Power Purchase Agreement
PXIL:	Power Exchange India Limited
RCT:	Rankin Cycle Technology
MNRE:	Ministry of New and Renewable Energy
ZLD:	Zero Liquid Discharge
A/C:	Account No
BEP:	Break Even Point
BOQ:	Bill of Quantities
ETP:	Effluent Treatment Plant
COD:	Date of Commencement of Commercial Operation
CA:	Current Assets
CL:	Current Liabilities
CR:	Current Ratio
CAGR:	Compound Annual Growth Rate

CC: Cash Credit
CL: Corporate Loan
DSCR: Debt Service Coverage Ratio
EM: Equitable Mortgage
EU: European Union
FDI: Foreign Direct Investment
GOI: Govt. of India
GST: Goods and Service Tax
HL: Head Less
HT: High Tension
IEC: Importer Exporter Code
INR: Indian Rupees
IRR: Internal Rate of Return
IT: Income Tax
KLD: Kilo Liters per Day
KVA: Kilo Volt Ampere
LS: Lump sum
LT: Low Tension
MAT: Minimum Alternate Tax
MFA: Miscellaneous Fixed Assets
NOC: No Objection Certificate
PAT: Profit after Tax
PBT: Profit before Tax
QC: Quality Control
RO: Reverse Osmosis
SLM: Straight Line Method
TL: Term Loan
TNW: Total Net worth
TOL: Total Outstanding Liabilities
TPH: Tons per Hour
WC: Working Capital Loan
WDV: Written Down Value

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Project Background

- ☞ Sri Venkateswara Green Hydro Project Limited (SVHPPL) incorporated on 07.09.1999 under the Companies Act, 1956 having CIN No: U40109AP1999PLC032452 at ROC-Hyderabad.
- ☞ **11.06.2008:** The Municipal Administration and Urban Development (J2) Department cleared the proposal of Sri Venkateswara Green Power Projects Limited (SVGPPPL) for setting up a 12 MW Municipal Solid Waste based Power Plant.
- ☞ **18.07.2008:** Sri Venkateswara Hydro Power Project Limited (SVHPPL) changed its name to Sri Venkateswara Green Power Projects Limited (SVGPPPL). The present CIN No of the company is U40109TG1999PLC109481.
- ☞ **11.06.2008:** Government of Andhra Pradesh had approved M/S SVGPPPL's 14 MW power Project under Municipal Solid Waste (RDF) category through G.O.Ms. No 413, dated 11.06.2008, Municipal and Urban Development , (J2) Dept of Govt. AP.
- ☞ **10.11.2010:** SVGPPPL has entered into a Concessional Agreement with GHMC ((Earlier known as Municipal Corporation of Hyderabad) on 10th November 2010 for the supply of 700 TPD Hyderabad MSW (Municipal Sewage Waste) to the project site for a concession period of 30 years from commissioning of the plant. As per the terms of the Agreement, SVGPPPL shall receive 700 Tonnes Per Day (TPD) of MSW on a daily basis from GHMC at a royalty of Rs. 25/ton.
- ☞ **08.08.2016:** M/S SVGPPPL submitted an application to TNREDCL (Telangana New and Renewable Energy Development Corporation Ltd) for sanction to set up Municipal solid waste to power project at Sy No: 122, 123 & 125 Yacharam village & Mandal, Ranga Reddy district.
- ☞ **TNREDCL** is the Nodal agency for New and Renewable Energy Generation Projects in the state of Telangana for approval, facilitation and co-ordination for setting of all the Renewable Energy projects implemented in the state of

Telangana including Municipal Solid Waste to Power Projects and other Renewable projects of Govt. of India and Telangana as per the policies and guidelines of GOI in the Ministry of New & Renewable Energy.

- ☞ **15.09.2016:** TNREDCL issued provisional sanction for establishment of the Municipal solid waste to power project, containing the terms and conditions of the project sanctioned department i.e. GHMC and other departments.
- ☞ **15.10.2016:** As the developer i.e. M/s SVGPPPL complied with the aforesaid terms and conditions, TNREDCL issued final sanction vide Letter No: TNREDCL/MSW/VGR/2016-17, Yacharam (V&M), Ranga Reddy District.
- ☞ **05.08.2017:** Telangana State Southern Power Distribution Company Limited (TSSPDCL) requested to M/S SVGPPPL to come forward to sign Draft Power Purchase Agreement (PPA) with TSSPDCL vide Lr. No.CGM (IPC & RAC)/SE(IPC)/F. SVGPPPL/D.No 704/17 under renewable energy category in August 2017.
- ☞ **19.08.2017:** Accordingly, M/S SVGPPPL entered into Draft Power Purchase Agreement (PPA) with TSSPDCL.
- ☞ **03.10.2019:** GHMC (Greater Hyderabad Municipal Corporation) assured for supplying of 700 MT of MSW to SVGPPPL from any of its transfer station operated by it through Assurance Letter- Lr.No.147/AC(H&S)/SWM/GHMC/2019.
- ☞ **24.01.2020:** Company obtained Grid connectivity to the proposed 12 MW Municipal Solid Waste to Energy (RDF) project of M/S SVGPPPL at Yacharam (V&M), Ranga Reddy District, Telangana vide Lr.No: CE/Comm1&RAC/SE/Comm1/DE/Comm1/AE-BI & C/F- SVGPP/D.No24/20 by Transmission Corporation of Telangana Limited (TSTRANSCO).
- ☞ **30.04.2019:** SVGPPPL has submitted an application of TSREDCO for enhancement of capacity from 12 MW to 14 MW.
- ☞ **08.05.2019:** TSREDCO after due consideration and has accorded in Principal Sanction to SVGPPPL for enhancement of capacity from 12 MW to

14 MW vide Letter No: TSREDCO/MSW/VGR/18-19/146 dated 08.05.2019.

- ☞ **22.06.2019:** TSREDCO given final sanction for establishing and enhancing of capacity from 12MW to 14MW vide Lr. No: TSREDCO/MSW/VGR/16-17/303.
- ☞ **25.07.2019:** TSREDCO entered agreement with SVGPPPL for establishment of 14 MW RDF based power plant.
- ☞ **18.11.2019:** SVGPPPL obtained Factory Building Height and Chimney Height Clearance from Airport Authority of India (AAI).
- ☞ **24.01.2020:** SVGPPPL obtained Grid connectivity of 14 MW Municipal solid waste to energy (RDF) Power Plant permission from Transmission Corporation of Telangana Limited, Vidyutsoudha, Hyderabad vide Lr. No: CE/Comm1&RAC/SE/Comm1/DE/Comm1/AE-BL & C/F-SVGPP/D.No:24/20.
- ☞ **03.02.2020:** SVGPPPL obtained Factory Establishment licenses from Factories Department, Government of Telangana through Lr. No.D. Dis.B3/RR/548/2020.
- ☞ **20.06.2025:** SVGPPPL obtained Consent for Establishment from Telangan Pollution Control Board through Order No: 234/TGPCB/CFE/RO-RR-i/HO/MSW/2025.
- ☞ **15.04.2020:** Southern Power Distribution Company of Telangana limited directed SVGPPPL for amendment to the Concession Agreement entered with GHMC dated 10.09.2010 for entering into PPA for enhanced capacity of 14 MW. Accordingly, GHMC executed amended the Concession Agreement.
- ☞ Presently, Company proposes to sell the entire power to Southern Power Distribution Company of Telangana Limited (TSSPDCL) at minimum tariff of Rs.11.50 per unit for the viability of the project following the recently issued guidelines by CERC order 05/SM/2024 dated: 02.08.2024. Final PPA for the same is yet to be executed.

- Now Telangana Renewable Energy Development Corporation Ltd (TGREDCO) has accepted company's project execution delay and extension of financial closure from 01.04.2023 to 30.09.2025 vide its Lr: No: TGREDCO/MSW/SVGR/2025-26/52.
- Moreover company also obtained latest CFE (Consent for Establishment) from PCB (Pollution Control Board) vide Order No: 234/TGPCB/CFE/RO-RR-i/HO/MSW/2025, dated: 20.06.2025 which is having Validity Period up to 30.06.2028.
- Presently company approached Bank/FIs for the funding of term loan for the proposed project to the tune of Rs 247.00 Cr out of total Project Cost of Rs 355.00 Cr and remaining through Promoters Contribution of Rs 108.00 Crores.

Project Site Visit

Table 01: Details of Site Visit

Sl. No	Date of Site Visit	07.08.2021
	Company Name	Sri Venkateswara Green Power Projects Limited (SVGPPPL)
1	Registered Office	5-9- 22, Flat No,303,3rd Floor, My Home Sarovar Plaza, Secretariat, Saifabad, Hyderabad-500063
2	Address of the site visited	Yacharam Village & Mandal, Ranga Reddy District, Telangana.
3	Present Project	The company proposes to develop a 14 MW Waste to Energy (WTE) Project at Yacharam Village & Mandal, Ranga Reddy District, Telangana
5	Total Size of the Land	Factory Land-20.00 Acres
6	Location (Industrial, Commercial, Residential)	Industrial
7	Accessibility	By Road
8	Ownership for Unit	Sri Venkateswara Green Power Projects Limited (SVGPPPL)
9	No of Persons visited	3 Members along with Company CFO
10	Name	1. Mr. GMR Sreekanth Babu (IBBI registered Plant & Machinery Valuer) 2. Mr. Atanu Goswami (Sr. Consultant) 3. Mr. K.Sridhar (Credit Analyst)
11	Nature of Area	Government Identified Industrial Zone Land
	Location Advantage	Distance (K.M)
	Nagarjuna Sagar Highway	02
	Yacharam	05

Table 01: Details of Site Visit

	LB Nagar	42														
	Ibrahimpatnam	18														
	ORR	29														
	Koti	50														
	Begumpet Airport	62														
	Rajiv Gandhi International Airport	52														
12	Status of the unit	Only Empty Rock Land														
13	Control Building Type	Factory Shed and RCC														
14	Ownership of office/factory /works/Project Site	100% to SVGPPL														
15	Land Allotted/Purchased	Purchased 20.00 acres for total Site Area. The details are as follows														
		<table><tr><th>Details of Land</th><th>Area (Acres)</th></tr><tr><td>Survey No: 105/7/1/2</td><td>1.33</td></tr><tr><td>Survey No: 105/11/1</td><td>5.16</td></tr><tr><td>Survey No: 105/8 & 105/8/1</td><td>3.23</td></tr><tr><td>Survey No: 105/10/1</td><td>4.13</td></tr><tr><td>Survey No: 105/8/3 105/10/4 & 105/11/4</td><td>5.14</td></tr><tr><td>Total</td><td>20.00</td></tr></table>	Details of Land	Area (Acres)	Survey No: 105/7/1/2	1.33	Survey No: 105/11/1	5.16	Survey No: 105/8 & 105/8/1	3.23	Survey No: 105/10/1	4.13	Survey No: 105/8/3 105/10/4 & 105/11/4	5.14	Total	20.00
		Details of Land	Area (Acres)													
		Survey No: 105/7/1/2	1.33													
		Survey No: 105/11/1	5.16													
		Survey No: 105/8 & 105/8/1	3.23													
		Survey No: 105/10/1	4.13													
Survey No: 105/8/3 105/10/4 & 105/11/4	5.14															
Total	20.00															
16	Land Conversion for Industrial Use (Acres)	Conversion Completed														
17	Competent Authority	Revenue Department, Telangana														
18	Group companies located in same premises (If any)	NA														
19	Factory layout Plan	Approved														
20	Electricity units' consumption	Not Yet started														
	Features available at															
21	Boundary Demarcation															
22	Fire protection devises															
23	First aid box															
24	Sanitation status															

Table 01: Details of Site Visit		
25	Power back up	Not available presently as the factory construction work has not been started as of now.
26	Names/Sign Board	
27	Electricity Line	
28	Water for Commercial Purposes	
29	Movement of Vehicles	Presently company only digs MSW-RDF Pit area at the project site and some site clearances work.
30	Consumption of power	
31	Operating Efficiency	
32	No of workers working	
33	Any other information (Please specify)	
34	Any power back up	
	Boundary Wall Demarcation	
	North Side	Gungal Reserve Forest
	South Side	Open Lands
	East Side	Open Lands
	West Side	Open Lands

Site visit status as on 07-08-2021-Project Site



*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*



*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

132/33 Kva Yacharam (Takkalapally) Substation



*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

KRISHNA WATER PIPELINE



DUE DILIGENCE REPORT

We have carried out Online Search of the Documents file of **SRI VENKATESWARA GREEN POWER PROJECTS LIMITED** on **07-02-2023** in the Website of Ministry of Corporate Affairs and report that the following particulars have been so registered.

Table 02: DUE DILIGENCE REPORT

1	CIN	U40109TG1999PLC109481
2	Company Name	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED
3	ROC Code	ROC-Hyderabad
4	Registration Number	109481
5	Company Category	Company limited by Shares
6	Company Subcategory	Non-govt company
7	Class of Company	Public
8	Authorized Capital (Rs)	Rs.25.00 Crores
9	Paid up Capital (Rs)	Rs. 22.49 Crores
10	Number of Members (Applicable in case of company without Share Capital)	0
11	Date of Incorporation	07/09/1999
12	Registered Address	5-9- 22, Flat No.303,3rd Floor, My Home Sarovar Plaza, Secretariat, Saifabad, Hyderabad-500063.
13	Address other than R/o where all or any books of account and papers are maintained	-
14	Email Id	svgreenpower@gmail.com
15	Whether listed or not	Unlisted
16	ACTIVE compliance	ACTIVE compliant
17	Suspended at stock exchange	-
18	Date of last AGM	19/09/2023

Table 02: DUE DILIGENCE REPORT

19	Date of Balance Sheet	31/03/2023
20	Company Status(for efilng)	Active
21	Objectives	1. To deal in all kinds of plant, machinery, apparatus, tools, utensils, materials and things necessary or convenient for carrying on any of the main objects of the Company. 2. To enter into partnership or into any arrangement for sharing profit union of interest, co-operation, joint-venture reciprocal concessions or otherwise either in part or other whole with any person or Companies foreign or otherwise, carrying on or engaged in or about carry on or engaged in any business or transaction capable of being conducted so as directly or indirectly to benefit this company. 3. To apply, purchase or otherwise acquire or develop any patents, developments, inventions, licenses concessions and the like conferring any exclusive or nonexclusive or limited right to use, or any secret or other information to any invention which seem capable of being used for any of the purposes of the Company the acquisition of which may seem calculated directly or indirectly to benefit the Company and to use, exercise develop or grant licenses in respect of or otherwise turn to account the property rights or information so required. 4. To establish, appoint regulate and

Table 02: DUE DILIGENCE REPORT

		discontinue office, agents, representatives in all such places as the Company may from time to time determine for carrying out all or any of the company's objects and to act as agent for others. 5. To purchase, own take on lease or in exchange or otherwise acquire and undertake all or any part to the business, rights, privileges, property and liabilities of and to amalgamate or enter into partnership or into any arrangement for sharing profits union of interest, cooperation, joint venture, reciprocal concessions or otherwise with any company having objects altogether or in part similar to those of the company and to lend money to, guarantee the performance or contracts of or subsidise or otherwise assist any such company for such consideration and on such terms and may seem expedient. 6. To promote, establish, undertake, from and to be interested in and to apply for acquire, hold and dispose of shares, in any institution, business, pool, combine, syndicate, industrial trading or manufacturing or company having objects altogether or in part to those of the Company carrying on any business capable of being conducted so as directly or indirectly to benefit the Company and to subsidise or assist any industry or undertake financially or otherwise by
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Table 02: DUE DILIGENCE REPORT

		issuing or subscribing for or guaranteeing the sub-subscription and issue of shares, stock, debenture stock or other securities such industry or undertaking. 7. To apply for, purchase or otherwise acquire any patents, brevets 'D' invention, processes, copyrights, trade marks, concessions, licences and the like subject to royalty or otherwise, conferring an exclusive or nonexclusive or limited right to use, or any secret or other information as to any invention which may seem calculated directly or indirectly to benefit the Company and to use, exercise turn to account or deal with the property rights and information so acquired or otherwise belonging to the Company. 8. To subscribe for, purchase or otherwise acquire, hold, sell, exchange, dispose of and deal in and to give any guarantee or whatever description to the stocks, shares, bonds, debentures, debenture-stock, scripts or other securities or obligations of any Company or of any authority, supreme, public, municipal, local or otherwise and to invest and deal with the funds of the company not immediately required upon such securities and in such manner as may from time to time be determined.
22	Existing Directors of the Company	Annexure-I

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Table 02: DUE DILIGENCE REPORT

23	INDEX OF CHARGES	Annexure-II
24	Directorships of Directors	Annexure-III
25	Shareholding Pattern	Annexure-IV

Annexure I: List of Directors/Signatory Details

DIN/ DPIN/ PAN	Full Name	Designation	Date of Appointment	Whether DSC Registered	Expiry Date of DSC	Surrendered DIN
00140229	MANOHAR REDDY LOKA	Director	27/04/2018	Yes	20/08/2022	
00459605	SARVESWAR REDDY SANIVARAPU	Director	28/03/2019	Yes	11/5/2023	
00973086	VENKATESWARA REDDY KOVURI	Managing Director	7/9/1999	Yes	10/9/2022	
00973161	SATYA VENKATA NAGA LEELA KUMARI TUKIVAKALA	Director	7/9/1999	Expired	23/11/2019	
00985357	SARASWATHULA MOHAN BABU SIVARAMAKRISHNA	Director	28/03/2019	Yes	5/10/2022	
BGGPG8736N	SAIRAM GANDIKOTA	Company Secretary	28/03/2019	Yes	28/12/2021	
00278842	Vijaya Bhasker Reddy Maddi	Director	01/09/2022			

Annexure II: Index of Charges

No Charge is registered as on date

ANNEXURE III: DIRECTORSHIP OF OTHER COMPANIES

DIN : 00140229

Name: MANOHAR REDDY LOKA

Sr. No	CIN/FCRN	Company Name	Designation	Original Date of appointment	Date of Appointment at Current Designation
1	U55101TG2012PTC084086	Cyma Hospitality Ventures Private Limited	Additional Director	03/08/2023	03/08/2023
2	U45102TG2006PTC051182	Nettlinx Realty Private Limited	Managing Director	15/03/2007	27/04/2011
3	L67120FG1994PLC016930	Nettlinx Limited	Managing Director	07/11/2005	05/06/2020
4	U72200TG1999PLC030924	Nettlinx Limited	Director	07/11/2005	07/11/2005
5	U74999TG2006PTC051727	Aryana Air Services Private Limited	Director	20/11/2006	20/11/2006
6	U72100TG2007PTC053502	Nettlinx Aquaculture Private Limited	Director	09/04/2007	09/04/2007
7	U67120TG1995PTC020268	Northeast Commodities Private Limited	Director	30/12/2002	30/12/2002
8	U40109TG1999PLC109481	Sri Venkateswara Green Power Projects Limited	Director	27/04/2018	29/09/2018
9	U01122TG2006PTC050732	Redi Tropicals And Naturals Private Limited	Director	27/07/2006	27/07/2006
10	U72900TG2019PTC137052	Nettlinx Technologies Private Limited	Director	22/11/2019	22/11/2019

DIN : 00459605

Name: SARVESWAR REDDY SANIVARAPU

Sr. No	CIN/FCRN	Company Name	Designation	Original Date of appointment	Date of Appointment at Current Designation	Date of Cessation (if applicable)
1	U28910TG2012PLC080018	Bondada Engineering Limited	Director	04/05/2023	08/06/2023	-
2	U29219TG2011PTC072404	Harpriya Solar Electricals Private Limited	Director	28/01/2011	28/01/2011	-
3	U45209TG2011PTC073193	Akhil Avenues Private Limited	Director	24/07/2018	29/09/2018	-
4	L24110TG1989PLC009497	Sigachi Industries Limited	Director	26/08/2020	28/09/2020	-
5	U40109TG1999PLC109481	Sri Venkateswara Green Power Projects Limited	Director	28/03/2019	30/09/2019	-
6	U28910TG2012PLC080018	Bondada Engineering Limited	Additional Director	-	04/05/2023	07/06/2023
7	U70102TG2007PTC056292	Hsr Ventures Private Limited	Additional Director	-	10/07/2008	15/10/2008
8	U52520TG2006PLC049614	Hetero Healthcare Limited	Additional Director	-	06/08/2015	24/09/2015
9	L24110TG1989PLC009497	Sigachi Industries Limited	Additional Director	-	26/08/2020	28/09/2020
10	U74130TG2003PTC041399	Acura Labs Private Limited	Director	-	10/04/2010	26/08/2014

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
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DIN : 973086

Name: VENKATESWARA REDDY KOVURI

CIN/FCRN	Company Name	Begin Date	End Date
U40109TG1999PLC109481	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED	27/04/2017	-
U50402AP2020PTC115162	ROYAL PETRO PARK PRIVATE LIMITED	30/07/2020	-

DIN : 00973161

Name: SATYA VENKATA NAGA LEELA KUMARI TUKIVAKALA

CIN/FCRN	Company Name	Begin Date	End Date
U40109TG1999PLC109481	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED	07/09/1999	-

DIN : 00985357

Name: SARASWATHULA MOHAN BABU SIVARAMAKRISHNA

Sr. No	CIN/FCRN	Company Name	Designation	Original Date of appointment	Date of Appointment at Current Designation	Date of cessation (if applicable)
1	U40109TG1999PLC109481	Sri Venkateswara Green Power Projects Limited	Director	28/03/2019	30/09/2019	-
2	U65921TG1995PTC021898	Sansar Financial Services Private Limited	Director	04/10/1995	04/10/1995	-
3	U67190TG1095PTC021899	Spinnet Engineers Private Limited	Director	15/03/2003	15/03/2003	-
4	U74999TG2017NPL115168	Chaaya Resource Centre	Director	10/02/2017	10/02/2017	-
5	U74140TG2022PTC162802	Waswing Business Ventures Private Limited	Director	19/05/2022	19/05/2022	-
6	U74140TG2003PTC040877	Mantri Advisors And Planners Private Limited	Director	23/04/2003	23/04/2003	-
7	U72200TG2011PTC077302	Rhinex Digital Media Private Limited	Director	-	09/11/2011	11/09/2014
8	U15122TG2011PTC076776	Ananda Precision Farming Private Limited	Director	-	30/09/2011	08/05/2015
9	U74999TG2018PTC121852	Nirmalya Bio-Engineering Solutions Private Limited	Director	-	12/01/2018	15/01/2019
10	L31300MH1989PLC250547	Mahavir Industries Limited	Additional Director	-	30/05/2011	30/09/2014

ANNEXURE IV: SHAREHOLDING PATTERN OF THE COMPANY

1. Project at a Glance

Table 03: Project at a Glance	
Company Name	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED
Registered Address	5-9- 22, Flat No,303,3rd Floor, My Home Sarovar Plaza, Secretariat, Saifabad, Hyderabad-500063
Power Plant Location	Yacharam Village & Mandal, Ranga Reddy District, Telangana
CIN NO	U40109TG1999PLC109481
Registration Number	109481
PAN NO	AAECS7881C
GST No	36AAECS7881C1Z6
Date of Incorporation	07/09/1999
Area of Registration	ROC-Hyderabad
Constitution	Limited Company
Directors	1. MANOHAR REDDY LOKA 2. SARVESWAR REDDY SANIVARAPU 3. VENKATESWARA REDDY KOVURI 4. SATYA VENKATA NAGA LEELA KUMARI TUKIVAKALA 5. SARASWATHULA MOHAN BABU SIVARAMAKRISHNA 6. Vijaya Bhasker Reddy Maddi
Products/ Services	14 MW Power Generation from Municipal Waste
Current Project	SVGPPPL has entered into an agreement with Greater Hyderabad Municipal Corporation (GHMC) to setup MSW processing facility with 14 MW Waste to Energy (WTE) power project by processing Municipal waste generated in Hyderabad.

Table 03: Project at a Glance	
	Currently, SVGPPPL has requested Bank/FIs of Rupee Term Loan of Rs.247.00 crore (69.58% of Project Hard Cost) for the subject project out of total estimated Capital Outlay of Rs. 355.00 Crore.
Market Segment	Waste to Energy
Project cost & Means of Finance	
Project Cost	Rs. 355.00 Crore
Promoter Contribution	Rs. 108.00 Crore (69.58%)
Term loan	Rs 247.00 Crores
Disbursement of TL	22 Months starting from July 2025 to April 2027
Moratorium period TL	13 Months starting from May 2027 to May 2028
Repayment TL	144 Months i.e. Months Staring from June 2028 to May 2040
Door to door period	179 Months starting from July 2025 to May 2040
Working Capital Limit	Rs. 4.50 Crore
Rate of Interest	TL- 10.65% WC-11.90%

2. Major Observation and Findings

- ❖ Sri Venkateswara Hydro Power Project Limited (SVHPPL) incorporated on 07.09.1999 under the Companies Act, 1956 having CIN No: U40109AP1999PLC032452 at ROC-Hyderabad.
- ❖ Sri Venkateswara Hydro Power Project Limited (SVHPPL) changed its name to Sri Venkateswara Green Power Projects Limited (SVGPPPL) on 18.07.2008. The present CIN No of the company is U40109TG1999PLC109481.
- ❖ Government of Andhra Pradesh vide GO. MS. No. 413 dated 11.06.2008 has recommended the Waste to Energy proposal based on the Municipal Solid Waste by M/s Sri Venkateshwara Hydro Power Projects Limited (now known as M/s Sri Venkateshwara Green Power Projects Limited) for establishment of Integrated Municipal Solid Waste Management facility with 12 MW power plant.
- ❖ Concession Agreement between Greater Hyderabad Municipal Corporation (GHMC) and M/s Sri Venkateswara Green Power Project Limited (formerly known as M/s Sri Venkateshwara Hydro Power Projects Limited) was signed concessionary agreement on 10th November 2010, wherein SV green shall establish 12 MW power plant based on RDF from processed MSW.
- ❖ The raw material for the proposed 12 MW waste to energy Project is Municipal Solid Waste (MSW). As per the concession agreement signed with GHMC dated 10.11.2012, 700 TPD of MSW shall be supplied by GHMC free of cost to the Project site through tripartite agreement with M/S Ramky.
- ❖ Again on 03.10.2019, GHMC (Greater Hyderabad Municipal Corporation) assured for supplying of 700 MT of MSW to SVGPPPL from any of its transfer station operated by it through Assurance Letter-Lr.No.147/AC (H&S)/SWM/GHMC/2019.
- ❖ MSW shall be segregated and processed to form RDF. Solid Waste Management Rules 2016 defines RDF as fuel derived from combustible waste fraction of solid waste like plastic, wood, pulp or organic waste other than chlorinated materials in the form of pellets or fluff produced by drying, shredding, dehydrating and compacting of solid waste.

- ❖ Telangana State Electricity Regulatory Commission (TSERC) order dated 13.06.2016, the heating rate of RDF as 4000 Kcal /Kwh and gross calorific value as 2500 Kcal/Kg, considering these values the Consultants estimate the requirement of RDF to be 1.6 Kg/Kwh. Hence for generating 14 MW of power the total RDF requirement will be = $14 \times 350 \times 24 \times 1.6 = 161280$ MTPA or 460 TPD.
- ❖ Considering 31% as typical composition of inert in MSW, total segregated RDF generated from MSW will be around 483 TPD.
- ❖ Based on the above calculations, the Consultants note that 700 TPD MSW supplied shall be just apt to cater the requirement for 14 MW RDF based power plant.
- ❖ SVGPPL has proposed to enter into final Contract with Hitachi Zosen India Private Limited (HZIPL). The company has received a commercial proposal of Rs. 180.00 crore from Hitachi Zosen India Pvt. Ltd. on 05.12.2018. The Contract is proposed to be signed once the financial closure is achieved. As per the commercial proposal, the plant is expected to be implemented within a period of 20-22 months from the date of NTP. It is advisable to the company to submit the agreement copy regarding this at earliest to bank.
- ❖ SVGPPL has informed that O&M contract will be signed with Hitachi Zosen India Pvt. Ltd. It has also informed that O&M cost for the project shall be 5% of the capital cost of the project with 5.72% yearly escalation in line with TSERC guidelines.
- ❖ SVGPPL already entered into Draft Power Purchase Agreement (PPA) with TSSPDCL for selling its generated units.
- ❖ The Company proposes to sell the entire power to Southern Power Distribution Company of Telangana Limited (TSSPDCL) at minimum tariff of Rs.11.50 per unit for the viability of the project due to delay in project implementation schedule. Final PPA for the same is yet to be executed.
- ❖ Now Telangana Renewable Energy Development Corporation Ltd (TGREDCO) has accepted company's project execution delay and extension of financial closure from 01.04.2023 to 30.09.2025 vide its Lr. No: TGREDCO/MSW/SVGR/2025-26/52.

Commercial

Company is eligible for Capital subsidy by MNRE

The Ministry of New and Renewable Energy (MNRE) provides Central Financial Assistance (CFA) in the form of Capital subsidy and Grants-in-Aid in generation of Energy from Urban, Industrial, Agricultural Wastes/Residues and Municipal Solid Waste based power plant Vide F.No: 20/222/2016-17-WTE.

According to the Scheme Power generation from Municipal Solid Waste/Refused derived fuel through Incineration or other approved thermal technologies of minimum size of 5 MW installed capacity power plant is eligible for Central Financial Assistance (CFA) of Rs 5.0 Crore/MW, Maximum Rs.50.00 Crore per project.

The main objective of the scheme is to promote

- a. Setting up of projects for recovery of energy from Municipal Solid Waste (MSW) for feeding power into the grid and for meeting captive power, thermal and vehicular fuel requirements.
- b. Setting up of projects for recovery of energy in the form of Biogas / Bio-CNG / Power from Urban, Industrial and Agricultural Waste and Captive Power and Thermal use through Gasification in Industries.

We have observed that to avail financial support, as per the guidelines Company must have availed term loan from any Bank/financial institution. Then they can apply for Subsidy or Grant.

One time **Back Ended Central Financial Assistance** for Waste to Energy projects through banks/FIs will be provided for offsetting loan amount by MNRE. Loan may be taken from any Indian Bank (commercial and co-operatives)/Financial Institution or International Bank/Financial Institution.

Financial

- ✓ The proposed 14MW Waste to Energy based power plant establishment cost has been arrived at Rs. 355.00 Cr.

- ✓ It is learnt that the company is seeking term Loan of Rs. 247.00 Crore from Bank and company will infuse Rs. 108.00 Crore as Promoter Contribution to fund the project. However, if any cost escalation happens during the process they are confident of bringing additional funds from their side.
- ✓ We have observed from 31.03.2024 Audited balance sheet that the company has already infused Rs. 21.68 Crore Promoter Contribution out of total Rs. 108.00 Crore.
- ✓ We have observed from 31.03.2021 Audited balance sheet and subsequently company also submitted CA certificate (M/S Deva & Co Chartered Accounts, Basheerbag, Hyderabad, Membership No: 026202 and UDIN No: 20026202AAAABI9133, Dated: 24.09.2020) regarding Capital Work in progress of Rs. 18.49 Crore. The details has been submitted to us as follows

The details of Capital Work in Progress as on 31.03.2021			
Sl.No	Description	Amount	Rs. In Crore
1	Land Development	8,91,58,000	8.92
2	MSW RDF pit civil Works	7,11,13,326	7.11
3	Pre Engineering Services	88,56,727	0.89
4	Power Dept Licence Fees Paid	34,42,278	0.34
5	Loan Processing charges	28,98,798	0.29
6	Travelling & Conveyance	18,53,506	0.19
7	Office Expenses	18,53,285	0.19
8	Project Study Expenses	13,38,500	0.13
9	Directors Remuneration	9,12,481	0.09
10	Forex Expenses	6,98,500	0.07
11	Staff welfare expenses & Management Expenses	5,16,968	0.05
12	Labour charges for Land	4,80,914	0.05
13	Local Conveyances	4,39,458	0.04
14	Licence fees - Pollution Board	3,45,000	0.03
15	Printing & Stationary	2,82,143	0.03
16	Telephone Charges	2,73,468	0.03

The details of Capital Work in Progress as on 31.03.2021			
Sl.No	Description	Amount	Rs. In Crore
17	Rent	2,52,240	0.03
18	Postage & Couriers	1,63,142	0.02
19	Depreciation	69,344	0.01
	Grand Total	18,49,48,078	18.49

However, during our site visit we have not observed that much progress in Land Development and MSW RDF pit civil Works.

- ✓ The promoters are also agreed to provide new collateral securities to bank for getting the proposed Term Loan apart from Primary Security if required. However till date they have not finalized with the bank the details of the securities and that has not been shared with us.
- ✓ As per our estimates the proposed project cost is arrived at Rs. 355.50 Cr which includes Rs. 290.43 Crore Hard Cost which also includes Land & Land development cost, purchasing of required Plant & Machinery and civil expenditure towards this. The Per MW capital cost has been estimated at 18.40 Crore/MW on hard cost and Rs. 22.17 Crore/MW on over all cost which includes both soft and hard cost.
- ✓ The Overall cost is on higher side compare with TSERC mentioned capital cost of Rs. 9.00 Crore/MW. However, it can be compared with other projects in India. The details are as follows

Company Name	Installed Capacity (MW)	Cost/M W	Location
Delhi MSW Solutions Pvt Ltd	24.0	15	Delhi
Hyderabad MSW Energy Solutions Pvt Ltd	19.8	20	Hyderabad
RDF Power Projects Limited	11.0	19	Bibinagar, Hyderabad
Sri Venkateswara Green Power Projects Limited	14.0	25.35	Yacharam, Hyderabad
Dundigal Waste 2 Energy Pvt Limited	14.5	29.07	Dundigal,

- ✓ Any increase/cost overrun in project cost will be funded by the promoters.
- ✓ Company should properly invest the proposed requirement of funds as per the plan mentioned. Otherwise, project will be at a stress condition.

Justification for the proposal

- ✓ Considering the necessity of Waste to Energy (WTE) processes in the sustainable management of Municipal Solid Waste (MSW) worldwide by reducing and recycling waste as well as using it to produce electricity, the promoters of SVGPPPL has decided to Install a new 14MW WTE power plant.
- ✓ Company has already acquired 20.00 acres of land for establishing the proposed project.
- ✓ As on date company obtained all the required permissions and clearances for setting up the project.
- ✓ The promoters have already infused Rs 21.68 Crore as promoters' contribution in form of equity shares. Further they are agreed for bringing in 100% promoters' contribution upfront.
- ✓ SVGPPPL is going to enter contract with Hitachi Zosen India Private Ltd for supply, erection and commissioning of plant. Contract is proposed to be with suitable liquidated damages and performance guarantees for technical performance parameters.
- ✓ The total debt requirement for the project is estimated to be Rs. 247.00 crore and currently company is funding by Bank/FIs
- ✓ The PLF has been estimated at only 65%-1st year, 75%-2nd year, 80%-3rd year onwards throughout the projected loan repayment period which is achievable.
- ✓ There is present necessity of setting up WTE power plant where Municipal Solid Waste is the major fuel
- ✓ The Life of the machinery estimated is minimum 20-25 years, which is covering entire Debt Service period.
- ✓ The promoters are already experienced in infrastructure business since last 20 years. So they are having a clear knowledge about the business and

moreover they are going to sell their products to Government DISCOM through PPA (Power Purchase Agreement).

- ✓ The estimated and projected financials of the Company are satisfactory.
- ✓ SVGPPPL is poised to grow in the coming years and is expanding its local foot print.
- ✓ Company proposes to appoint more professional manpower to increase the higher PLF of the unit.
- ✓ They are having good net worth to fund this project.

Final Recommendation:

SVGPPPL has the requisite infrastructure facilities in terms of land, machinery, manpower and availability of adequate cash flows to run the project. In the light of the strengths of the Company the assumptions, findings made herein the report and the detailed analysis of the Company's operations and future projections, This is considered that **Sri Venkateswara Green Power Projects Limited (SVGPPPL)**'s proposed project is **Technically Feasible and Economically Viable** and is capable of servicing its debt obligations.

Hence, it is concluded that **"The Proposal is Technically Feasible & Economically Viable"**.

3. Assumptions

The revenue projection is based on the Installed capacity of the Plant and its operating efficiency

1. Debt/Equity Ratio has been considered at 2.29:1.00 Ratio
2. Term loan considered is at Rs. 247.00 Crore from BANK at an interest rate of 10.65%
3. Disbursement of both the term loan proposes with in 22 months starting from starting from July 2025 to April 2027.
4. Interest on Working Capital Loan: 11.90%
5. Loan Repayment Period: 144 Months i.e. Months Staring from June 2028 to May 2040
6. Salvage Value/Terminal Value of the Plant: 10% of Total Capital Investment
7. Installed capacity of the Power Plant: **14 MW**
8. MSW Processing Capacity: **700 MT/Day**
9. Station Heat Rate (Energy required for 1Kwh electricity) **4,000 Kcal/KWH**
10. Gross Calorific Value: **2500 Kcal/Kwh**
11. Revenue are projected based on the following assumptions
 - ☞ Working days per year 365 days
 - ☞ Working hours per days 24 hours
 - ☞ Auxiliary consumption and T&D losses 15%
 - ☞ **Plant Load factor (PLF)**

FY 2025-26:	65.00%
FY 2026-27 :	75.00%
FY 2027-28:	80.00%
FY 2028-29 Onwards:	80.00%
- Note: These load factors are achievable comfortably*
12. Plant Life: 20 Years
13. Operating and Maintenance Cost: 5.00% on Capital Investment and 5.72% Year on Year escalation

14. Income Tax: Income Tax paid by the Generator on the income derived from the power project shall be reimbursed by the Distribution Licensee(s) on submission of challans of payment of Tax to the Income Tax Department.

15. Sales price: Presently company proposing the following tariff rate for the viability of the project

Table 04: Fixed Tariff Rates															
Description	Unit	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Fixed Tariff	Rs/Unit	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42
Variable Tariff	Rs/Unit	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
Total Tariff	Rs/Unit	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50

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By Sri Venkateswara Green Power Projects Limited (SVGPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Table 05: Revenue Calculation															
Description	Unit	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
MSW Processing Capacity	MT/Day	700	700	700	700	700	700	700	700	700	700	700	700	700	700
Installed Capacity	MW	14	14	14	14	14	14	14	14	14	14	14	14	14	14
No. of Units per MW	MU	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Installed Capacity - Generation	MU	91.98	122.64	122.64	122.64	122.64	122.64	122.64	122.64	122.64	122.64	122.64	122.64	122.64	122.64
PLF		65%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
Gross Generation	MU	59.79	98.11	98.11	98.11	98.11	98.11	98.11	98.11	98.11	98.11	98.11	98.11	98.11	98.11
Auxiliary Consumption	18%	8.97	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72
Net Generation	MU	50.82	83.40	83.40	83.40	83.40	83.40	83.40	83.40	83.40	83.40	83.40	83.40	83.40	83.40
Sensitivity	100%														
Working days		250	330	330	330	330	330	330	330	330	330	330	330	330	330
Tariff		11.5	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50
Revenue		40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71

16. Working capital holding period: (As per TSERC Tariff Order)

- O&M expenses 1 month
- Receivables 1 month equivalent to sale of electricity calculated on normative PLF
- Fuel 1 month equivalent to normative PLF
- Maintenance of Spares @1.00% of the capital cost escalated at 5.00% per annum

Table 06: Working Capital Assessment															
		FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Months of Operation	Months	9	12	12	12	12	12	12	12	12	12	12	12	12	12
Current Assets															
O & M	1.00	1.51	1.55	1.59	1.63	1.67	1.71	1.75	1.79	1.84	1.89	1.93	1.98	2.03	2.08
Receivables	1.00	4.45	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23

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Table 06: Working Capital Assessment															
		FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Months of Operation	Months	9	12	12	12	12	12	12	12	12	12	12	12	12	12
Maintenance Spares 1% of Capital Cost	1.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cost	1.00	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09
Total		6.01	8.83	8.87	8.92	8.96	9.00	9.05	9.09	9.14	9.19	9.24	9.29	9.34	9.39
Current Liability															
Creditors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WC Gap		6.01	8.83	8.87	8.92	8.96	9.00	9.05	9.09	9.14	9.19	9.24	9.29	9.34	9.39
WC loan limit	75%	4.51	6.62	6.66	6.69	6.72	6.75	6.79	6.82	6.85	6.89	6.93	6.97	7.00	7.04
WC loan		4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
WC margin		1.51													
Interest	11.90%	0.40	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Table 07: O&M Expenses															
Description		FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Gross Block		353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48
O&M Expenses	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
O&M YOY Escalation	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Total O&M Expenses on Gross block		5.13%	5.25%	5.38%	5.52%	5.66%	5.80%	5.94%	6.09%	6.24%	6.40%	6.56%	6.72%	6.89%	7.06%
O & M Cost		13.59	18.57	19.03	19.51	20.00	20.50	21.01	21.53	22.07	22.62	23.19	23.77	24.36	24.97

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
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At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Profitability

Table 08: Profit Statement														
Particulars	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Revenue	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
PBDIT	23.80	64.97	64.45	63.92	63.37	62.81	62.24	61.66	61.06	60.44	59.81	59.17	58.51	57.84
PBT	-9.76	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
Net Income	-9.76	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
PAT/Sales	-24.38%	24.10%	25.79%	27.67%	29.61%	31.52%	33.43%	35.32%	37.19%	39.04%	40.88%	42.70%	44.51%	45.41%
PBT/Sales	-24.38%	24.10%	25.79%	27.67%	29.61%	31.52%	33.43%	35.32%	37.19%	39.04%	40.88%	42.70%	44.51%	45.41%

4. Detailed Project Report

4.1 Management Analysis

4.1.1 Background of the Company

Sri Venkateswara Green Power Projects Limited (SVGPPL) having CIN No: U40109TG1999PLC109481 incorporated on 07.09.1999, 2015 as 'Sri Venkateswara Hydro Power Projects Limited' and later the name was changed to the current name on 18.07.2008. SVGPPL incorporated as a limited Company with registrar of companies, Hyderabad under the Companies Act, 2013.

The registered office of the company located at 5-9- 22, Flat No.303,3rd Floor, My Home Sarovar Plaza, Secretariat, Saifabad, Hyderabad-500063.

The Company is promoted by Mr. K. Venkateswar Reddy and M/s Nettlinx Limited and present directors of the Company are Mr. Manohar Reddy Loka, Mr. Venkateswara Reddy Kovuri, Mrs. Satya Venkata Laga leela Kumari Tukivakala, Mr Sarveswar Reddy Sanivarapu and Mr. Saraswathula Mohan Babu Sivaramakrishna. The main objective of the company is to carry on the business of 14 MW Waste to Energy (WTE) Project.

Presently company has proposed to develop a 14 MW Waste to Energy (WTE) Project at Yacharam Village & Mandal, Ranga Reddy District, Telangana. SVGPPL has entered into an agreement with Greater Hyderabad Municipal Corporation (GHMC) to setup MSW processing facility with 14 MW Waste to Energy (WTE) power project by processing Municipal waste generated in Hyderabad

Past performance of SVGPPL is as under

Table 09: Past Performance of the Company		
Particulars	FY 22	FY23
Revenue	0.01	0.01
PBDIT	-0.81	-0.97
PBT	-0.83	-0.99
Net Income	-0.83	-0.99
Equity	21.68	21.68
Unsecured Loan	6.60	1.90

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Table 09: Past Performance of the Company		
Particulars	FY 22	FY23
Term Loan	0.00	0.00
Other Current Liabilities	0.54	0.54
Gross block	2.32	2.32
WIP	18.49	18.49
Other Current asset	0.26	0.26
Cash Balance	2.02	1.77

4.1.2 Current Project

SVGPPPL has proposed to develop a 14 MW Waste to Energy (WTE) Project at Yacharam Village & Mandal, Ranga Reddy District, Telangana. SVGPPPL has entered into an agreement with Greater Hyderabad Municipal Corporation (GHMC) to setup MSW processing facility with 14 MW Waste to Energy (WTE) power project by processing Municipal waste generated in Hyderabad.

The Company will set up an incineration based WTE project to process MSW to generate 14 MW of power. SVGPPPL has entered into a Concessional Agreement with GHMC on 10th November 2010 for the supply of 700 TPD Hyderabad MSW to the project site for a concession period of 30 years from commissioning of the plant. As per the terms of the Agreement, SVGPPPL shall receive 700 Tonnes Per Day (TPD) of MSW on a daily basis from GHMC at a royalty of Rs. 25/ton.

4.1.3 Directors Profiles

As per ROC (Registrar of Companies), 07.02.2024 Company has existing 6 experienced directors on its board. The profiles are as follows

Table10: Board of Directors and their Experience					
S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience

Table10: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
1	Mr. Kovvuri Venkateswara Reddy D.O.B: 31.08.1971 PAN NO: AHMPK79200 Father Name: Sita Reddy AADHAR NUMBER: 728107935192 Address: 86-2-3/1, S.V Reddy Street, Manthana Gardens, Rajahmundry (Urban), East Godavari, Andhra Pradesh -533101	Managing Director	52	B. Tech	• He is the promoter and Managing Director of the company. He is a Mechanical Engineering Graduate having two decades of business experience in infrastructure development and power project segments. He is very passionate about environmental business with major focus on waste management. • He has travelled extensively on MSW projects in India and abroad and has gained vast knowledge on waste to energy projects. • He has successful operating business-like retail outlets of Indian Oil Corporation and Indo Burma Petrol Limited as a proprietor, as a partner in a real estate firm and a rerolling mill. Presently, he is completely involved in the operations of SVGreen.

Table10: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
2	Mr. Manohar Reddy Loka PAN NO: ABWPL3926F D.O.B-28.11.1962 Father Name: Son of Narayana Loka Reddy AADHAR NUMBER: 455808333972 Address: 8-2-674/2/B, Road No 13, Banjara Hills, Khairatabad, Hyderabad, Telangana-500034	Director	61	MBBS	• He is the Chairman and Promoter Director of Nettlelinx. He is a Medical Doctor by Profession and has diversified interests in various industry verticals. He holds an MBBS degree from Nagarjuna University and Post-Graduation in Internal Medicine from Luthum Medical Centre. He is a certified Member of National Stock Exchange (NSE). • His interest in other business activities has led to diversification into other businesses like Real Estate and Aquaculture through group subsidiaries Nettlelinx Realty Private Limited and Nettlelinx Aquaculture Private Limited.
3	Mrs. Tukivakala Satya Venkata Naga Leela Kumari PAN NO: ACRPT4712B D.O.B-02.12.1951 Father Name: Venkata Reddy Karri	Director	72	Bachelors	• Mrs.Kumari having more than 4 decades of business experience. • She hails from the Konaseema region of Andhra Pradesh and had been into various businesses across the sectors such as Rice mills, Sugar mills, Vehicle Financing and also building up land banks. • She has her own financing company known as the Leela

Table10: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
	AADHAR NUMBER: 533342364188 Address: 86-2-3/1, S.V Reddy Street, Manthena Gardens, Rajahmundry (Urban), East Godavari, Andhra Pradesh -533101				Kumari Finance Corporation which serves many people from the Godavari belt in providing vehicle finance; She is also a major stake holder in the Kanya Gauri Rice mills and very well known in region for being one among the successful women entrepreneurs in the region.
4	Mr. Saraswatula Siva Rama Krishna Mohan Babu PAN NO: AKRPS5885H D.O.B- 25.08.1957 Father Name: Venkata Subramaniyam Saraswathula AADHAR NUMBER: 782352849146 Address: 8-3-1192/A/2 Plat no- 104 Ashoka Lake view Apartments Kundan Bagh, Begumpet, Hyderabad, Andhra Pradesh -500015	Director	66		- Having 30 years of real-time experience in the Financial Services sector including IPOs, Private Equity, Trading in Bonds (Government and Non-Government), Retail Debt segment, etc. - Had Established a Financial Services Company in 1995, Sameer Financial Services Pvt. Ltd., and acted as a prime Marketing arm to various financial houses like Rajashri Fiscal Services Ltd., Aryaman Financial Services Ltd., Guiltedge Securities Ltd., Shardul Securities Ltd., GE Capital, Almondz Global Securities Ltd., LKP Securities Ltd., AFCO Investment Services Pvt Ltd., etc.

Table10: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
					He is the Promoter Director of Sameer Financial Services Pvt. Ltd., Maithri Advisors & Planners Pvt. Ltd., and Chaaya Resources Centre.
5	Mr. Sanivarapu Sarwewara Reddy PAN NO: AAJRPS3992F D.O.B-02.06.1965 Father Name: Venkat Reddy Sanivarapu AADHAR NUMBER: 928934831260 Address: 8-2-603/23/20 and 21nFlat No -402, HSR Tulips Road No-10, Banjara Hills , opp IAS and IPS Quarters Khairatabad, Banjara Hills , Hyderabad - 500034	Director	58	Company Secretary	- Mr. Reddy is company secretary with an experience of 30 years, - He had worked with companies which are into to solar power production, reality, electrical equipment manufacturing and reality.
6	Mr. Joginipally Venkat Hanumanth Rao PAN NO: ABSPJ3677P D.O.B:20.01.1963 Father Name: Gopala Rao		61		- Mr. J. V. Hanumantha Rao is a businessman and is serving as a Director on the Board of Nettlinx Limited since 2009. - He is an Independent Non-Executive Director, and He is also a Member of Nettlinx

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Table10: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
	AADHAR NUMBER: 700757886886 Address: H.No 16-3-32/9/59, Nehru Nagar, Co- Operative Society, East Marredpally, Maredpalle, Hyderabad - 5000026				Audit Committee. • He holds a postgraduate management degree from Shivaji University. He is a commissioning agent to M/s.Aarti Industries Limited, Mumbai for Andhra Pradesh and Telangana region and successfully running an Indenting agency in Hyderabad for raw materials & amp; API for Pharma Industry. • He also representing as commissioning agent to Nandolia Organics Pvt. Ltd and Valuent Organics Private Limited and is in business for the past 25 Years.

4.1.4 Share Holding Pattern

Existing Shareholding Pattern

- ☞ Authorized Capital: Rs. 25.00 Crore
- ☞ Paid up Capital: Rs. 22.49 Crore
- ☞ No of Shares: 2.50 Crore
- ☞ Face Value/Share: Rs. 10

The details of the existing share holding pattern of the company is as follows

Table 11: Sharing Holding Pattern of the Company			
S. No.	Name	Shareholding %	Promoter
1	Nettlinx Limited	60.00%	Dr. Manohar Loka Reddy

Table 11: Sharing Holding Pattern of the Company			
S. No.	Name	Shareholding %	Promoter
2	KVR & his associates	40.00%	K. Venkateswar Reddy

Nettlinx Limited

Nettlinx is a Class B license holder in providing services as an ISP, ITSP and OSP. The company was set up in 1999 and is a Public Limited Company listed in BSE and NSE. The company offers state-of-the-art Managed Network Services to enterprises across Telangana and Andhra Pradesh. The company operates through a direct presence in 93+ locations and has proved to be one of the best ISPs in providing fully converged network platform i.e. Data, Voice and Video application support.

The chief promoter of the company is Dr. Manohar Loka Reddy. He is the Chairman and Promoter Director of Nettlinx. Aged about 55 years, he is a Medical Doctor by Profession and has diversified interests in various industry verticals. He holds an MBBS degree from Nagarjuna University and Post-Graduation in Internal Medicine from Luthurn Medical Centre. He is a certified Member of National Stock Exchange (NSE).

His interest in other business activities has led to diversification into other businesses like Real Estate and Aquaculture through group subsidiaries Nettlinx Realty Private Limited and Nettlinx Aquaculture Private Limited.

Table 13: Past Performance of Nettlinx Limited		Rs. In Crore
Particulars	2019-20	2018-19
Revenue	28.36	14.91
PBT	2.42	5.62
PAT	1.73	4.03
Equity	35.07	33.29
Term Loan	10.95	10.71
Unsecured Loan	0.00	0.00
Trade Payables	14.94	0.78
Financial Assets	33.67	17.78

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At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Table 13: Past Performance of Nettlinx Limited		Rs. In Crore
Particulars	2019-20	2018-19
Net Block	9.2	8.7
Receivable	17.09	6.69
Advances to Related Parties	4.5	19.24
Cash	0.83	0.03

4.1.5 Vision, Mission and Goal

Table 15: Vision, Mission & Goals	
Vision	To have presence in the renewable energy industry
Mission	To efficiently manage the operations to achieve desired results in the day-to-day operations of the company
Goal	To Complete the present project with in stipulated period of time

4.1.6 SWOT Analysis

Table 16: SWOT Analysis
Strengths
➤ The main promoters having more than 20 years' business experience. ➤ The proposed project located at Survey no 121, 122, 123 & 124, 105/11, 10, 8 Yacharam Village and Mandal, Ranga Reddy District, Telangana State. ➤ Company is having Concession Agreement signed with GHMC for supply of 700 TPD of MSW for 30 years to the Company at the project site. ➤ Presently company has already acquired 25.33 acres of land for the establishment of the project. ➤ The Company has wide network and good channels of distribution. ➤ The Management has good knowledge and understanding of Waste to Energy power plant business. They have visited many WTE plant both in India and abroad. ➤ WTE power plants are "Must Run" projects as per TSERC order, enabling consistent operations. ➤ The project is MSW based project which will utilize MSW to generate power. It will also contribute to clean environment for the city of Hyderabad. ➤ Endeavour of the top management to constantly update the power generation

Table 16: SWOT Analysis

facilities to optimize cost of generation. ➤ Structured organization to meet challenges of the market and Technology. ➤ Financial strength of the promoters and good credit discipline.
Weaknesses
➤ Final PPA with TSSPDCL is yet to be executed. Suitable pre-disbursement condition has been stipulated for signing of PPA. ➤ EPC/Package contracts for the project is yet to be signed. Suitable pre-disbursement condition for signing of EPC/package contracts for the project has been stipulated.
Opportunities
➤ Regulations and Policies supporting clean Power and Alternative fuel Sources. Increased Green Power demand for Green Services is Positive indication such as WTE based Projects. ➤ Rising Living Standards, changes in food habits and life style will improve the waste generation which will boost the WTE projects in terms of Raw Material availability.
Threats
➤ Any changes in the Government Regulations and policies can have an adverse impact on this industry. However, it will impact all the players in the industry.

4.1.7 Key Team Members Profile

Brief details of Key personnel's and their experience is as under

Table 17: Key Technical Person & their Profile

SL.N o	Key Person	Description
1	Dr. Manohar Loka Reddy (Chairman & Promoter Director of Nettlinx Limited)	✓ He has pursued bachelors of Medicine (MBBS) from Nagarjuna University and completed Masters in Internal Medicine from Luthum Medical Centre, USA. Being from a business background family His passion for it has lead him to foray into various diversified businesses. ✓ He had established Nettlinx (BSE Scrip code 511658 / ISIN INE027D01019) group way back in 1999, which is into ISP and has been catering to the networking requirements of the domestic enterprise market. Nettlinx provides state-of-the-art products and solutions for network requirements of organizations. Nettlinx's presence and experience in the field of Internet related services offers our esteemed clients a high degree of satisfaction. ✓ He was also a promoter director of MTAR Technologies Private Limited, which was established in 1970 is a manufacturing company providing total solutions under one roof and delivering high-quality products on time, in fields of Aerospace, Nuclear, Defence, Oil Field and Energy Sectors. MTAR today is one of those few companies that can pride itself on the Since its inception, MTAR has displayed its competency in Manufacturing, Fabrication, Assembly and Testing and has always been sharply focused on

Table 17: Key Technical Person & their Profile

Sl.No	Key Person	Description
		Quality assurance, Extensive R&D, Customized Engineering Solutions and Precision Support.
2	Mr. Rohith Reddy Loka (Managing Director of Nettlinx Limited)	✓ He is alumni of ISB, who earlier earned a Bachelor of Science degree at the Bentley University, Massachusetts. His academic honors include), National Honors Society (Finance) and Omicron Delta Epsilon (International Economics Honors Society). ✓ He then advanced to complete a two-year stint at the John Hancock Financial Services. He joined its Investment Division Rotation Program as a Credit Analyst for the Bond & Corporate Finance Group. He aided the department by recommending investment plans to portfolio managers on private transaction, new issuance and secondary market opportunities. ✓ He had also developed tools to track important statics of varying sectors. He also worked as a Foreign Exchange Trader, wherein he supported the global fixed income portfolios. He also holds various certifications such as Certified Financial risk manager, completed level III of the chartered financial Analyst (CFA) exam, and mutual funds.
3	Mr. K.Venkateswara Reddy (Promoter and Managing Director)	✓ He is the Promoter Director of the company and a Mechanical Engineering Graduate having two decades of business experience in Infrastructure & Power segments. He is very much passionate about environmental business, in focus to the waste management. He has travelled extensively

Table 17: Key Technical Person & their Profile

Sl.No	Key Person	Description
		in India and abroad on waste management. As a technocrat, way back in 90's He has envisaged setting up of WTE plant under SV Green and had patiently awaited for all the WTE project statutory approvals, and now the project is under implementation.
4	Mrs. TSVN Leela Kumari (Director)	✓ She is from a well reputed business family of Godavari District who are into Rice mills, aquaculture, and micro finance business. She is related to the Managing Director Mr. K.Venkateswara Reddy.
5	Mr.Saijee Inavolu (Technical Director)	✓ Possesses exceptionally good knowledge and rich practical experience with above power projects. ✓ Received many appreciation letters and awards for excellent services rendered during tenure of service period with power Industries. ✓ Has worked with Three Public Sectors (Govt of India) 1). Indian Navy (NAVAL DOCK YARD- Ministry of Defence), 2). BOKARO STEEL PLANT - (Ministry of Steels), 3). SOUTHERN PESTICIDES CORP LIMITED – (Ministry of Petro Chemicals) & also worked with many Private Power sectors as Senior Position as Sr Maintenance Engineer, Plant Superintendent, Plant Manager, General Manager, Sr Vice President,-Power. ✓ Has full-fledged practical experienced Power Project Professional and my focus area is concept to commission & smooth Operation & Maintenance of the power projects with nominal maintenance cost with safe operation.

Table 17: Key Technical Person & their Profile

SLN o	Key Person	Description
		✓ Has rich experience & good knowledge with Power sector - Designing, trouble shooting, erection & commissioning, Operation & Maintenance of Biomass, Municipal Solid Waste, Industrial Waste, Co-generation and Coal base Power Projects i.e from concept to commission & Operation and Maintenance. ✓ Has worked with S.V. Sugars, Kanchipuram, Chennai as a Senior Vice President -Power & successfully commissioned 27.3 Mw very old (1973) Modal Power plant and also 18 MW Biomass Power Plant. I also worked with Nizam Sugars, Nizambad and put the 27.3 mw Co-generation power plant in to smooth Operation. ✓ Had solved technical problems of the following power projects and put them in to smooth operation. 1).S.V.Sugars – 27.3 MW Co-gen, 2). Nizam Sugar– 23.0 Mw, 3). Nandha Energy -18 MW Biomass, 4). S.L.S- 6.0 MW Biomass Power, 5). Rithwik Energy – 6.0 MW Biomass, 6). Ultra Power 7.5 MW Poultry Litter & Industrial Waste, 7). Selco International – 6.0 MW - Municipal Solid Waste & 8). 3.0 MW Gas based at Namkal. ✓ Has a very good experience and Technical plans on Operation and Maintenance of the power projects. I will focus on to reducing specific Steam & Fuel consumption, decreasing the Auxiliary consumption, reducing Man Power cost and will be operated & maintained with nominal Maintenance cost at optimum efficiency levels

Table 17: Key Technical Person & their Profile		
Sl.No	Key Person	Description
		(full load capacity) with safe operation of Men & Machinery. (ZERO INJURIES&ZERO ACCIDENTS) ✓ Had been a specialist on Utilities particularly on Boilers, Turbo Generators, Air Compressors, Water Treatment Plant, ETP, Fuel Management. (Worked with High pressure Boilers & Power Plants).

4.1.8 Manpower requirement

The Company needs a team of 200 persons in different Departments as detailed hereunder.

Table 18: Manpower Requirement				
Description	Skilled	Semi-skilled	Unskilled	Total
Administrative staff	-	-	-	35
MSW segregation / RDF Plant	20	15	25	60
Waste to Energy	25	35	10	70
Utility	10	10	5	25
Others (Stores and spares, security etc)	4	6		10
TOTAL				200

4.1.9 Organization Chart

The organization structure of the Company is as under



4.2 Technical Analysis

4.2.1 Location & Benefit

The unit is located at Ranga Reddy District, Telangana

The site is located at Survey no 105/7/1/2, 05/11/1, 105/8 & 105/8/1, 105/10/1, 105/8/3, 105/10/4, 105/11/4 to the existing Sy.Nos. 122, 123 & 125 of Yacharam Village and Mandal, Ranga Reddy District, Hyderabad State.

Yacharam is a mandal in Rangareddi District of Telangana and is located at a distance of around 50 Km from Imlibun Transfer station which will be the possible source from where GHMC may carry MSW to the project site. Yacharam is well connected by road with TSSRTC buses running to the place. It has access to both land line and cell telephony.

Table 19: Project Site description	
Particulars	
Place, District	Yacharam Village, Ranga Reddy District, Hyderabad
Co-ordinates	17°04'01''N & 78°41' 04'' E
State	Telangana
Nearest town/city	Ibrahimpatanam Town (~14 kms)
Nearest Railway Station	Hyderabad (~60 kms)
Nearest Airport	Hyderabad (~50 kms)

Site Visit Observations:

Table 20: Project Site Observation	
Parameters	Observations
Topography	The site topography is observed to be undulating and has hilly terrain. The site will required levelling of land as per the WTE plant layout and the balance of land also needs to be levelled to accommodate road and greenery.

Table 20: Project Site Observation	
Parameters	Observations
Site Approach	The site approach road is a 40 ft. village kutchra road which connects the Nagarjuna Sagar Road at 2.0 km from site. The Kutchra road needs to be developed to facilitate smooth transit of GHMC MSW vehicles to site.
Habitat	No human habitat cluster has been identified adjacent to the site. Hence, there are limited chances of local allegations for the WTE operations.
Surrounding Activity	There is a limestone mining and crushing unit adjacent to the project site, apart from this, there are no other industrial activity adjacent to the site.
Water Source	Krishna water pipeline is passing at 2.5 Km from the site. SVGPPL envisages obtaining Government permission either for sourcing water from Krishna water pipeline or ground water using bore wells.
Power Connectivity	Electric line passes adjacent to the plant boundary and a 33 / 11 KV substation is situated 10.8 km from the project site
MSW Sourcing	Imlibun transfer station is at about 50 km from the site and will be the possible source for GHMC to supply MSW to the site. Apart from the 2.0 km Kutchra approach road, the remaining route has good connectivity from the city to the site

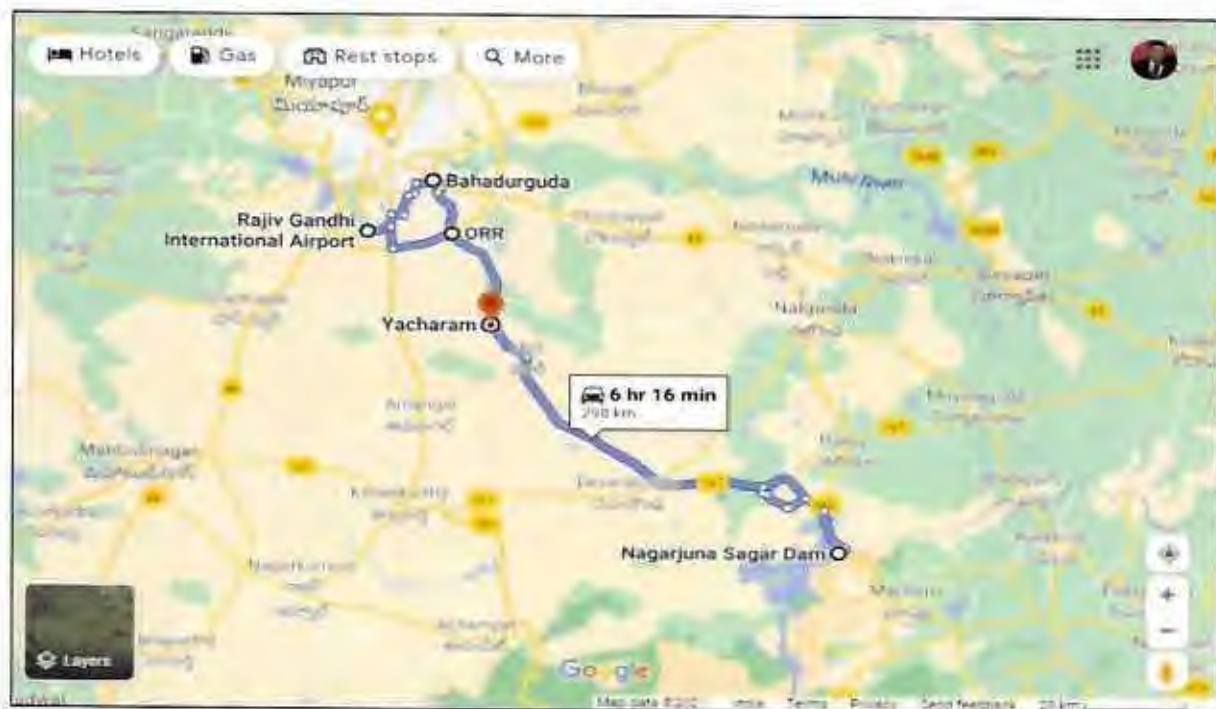
Distances from Project Site

Table 21: Distances from Project Location	
Features	Description
Nearest Road	The site is around 2.0 km from the Nagarjuna Sagar Road and 29 Km from Nehru Outer Ring Road
Nearest Railway station	There is no railway station in Yacharam Mandal within 10 km radius.



	Nearest major railway station is Hyderabad Deccan at 52 km.
Nearest Airport	Rajiv Gandhi International Airport is at 52 Km from the site
Nearest Town	Nearest town is Ibrahimpatanam at 14 km from site
Nearest Village	Jalalmiapalli village at 2.2 Km

Location Map



Land:

The promoters of the SVGPPPL had already acquired 20.00 acres of factory land at Sy. No: 105/7/1/2, 05/11/1, 105/8 & 105/8/1, 105/10/1, 105/8/3, 105/10/4, 105/11/4.

4.2.2 Technology

SVGPPPL proposes to implement the Project using incineration-based technology from Hitachi Zosen India Pvt. Ltd., the India-based arm of Hitachi Zosen Corporation which has strong experience of implementing a large of number of waste-to-energy plants worldwide. Incineration (Controlled combustion) is an efficient way to reduce the waste volume and demand for landfill space.

The Waste to Energy



4.2.3 Process Overview

The proposed plant is based on incineration technology to produce 14 MW of gross power by burning of 700 Ton per Day (TPD) of MSW to be received from Greater Hyderabad Municipal Corporation (GHMC).

The brief process is described as follows:

700 TPD MSW for the project shall be received at site. The waste received shall be unloaded into storage pit for moisture reduction. Incombustible waste from MSW shall then be removed through waste segregation system for processing. Processed waste would be stored in a storage pit and from there it shall be fed into combustor chute using cranes.

Processed waste (RDF) from the combustor chute shall be fed to specially designed grate incinerator. After the burning of waste, ash is removed from bottom of furnace. The bottom ash falls at the end of the grate through a hopper into the bottom ash extractor.

The steam generated in the boiler is supplied to a steam driven turbo-generator set to generate electrical energy. Power generated would be stepped-up and supplied to grid.

The flue gases generated in incineration chamber are passed through low temperature economizer or spray type gas cooler. Here acidic gaseous pollutants are removed by absorption with hydrated lime. Heavy metal compounds and organic pollutants such as dioxins and furans are separated by adsorption onto activated carbon. Water is sprayed in the reactor for temperature regulation. The residues are extracted from bottom of the system and finally outgoing flue gas is supplied to fabric filter.

Broad specifications of Steam boiler, Turbo Generator as per the documents provided by SVGPPPL are as follows:

Table 23: Specification of the Plant		
Particular	Unit	Value/Description
STEAM BOILER		
Number of boilers	No.	1
Boiler combustion technology		Grate combustion system
Maximum Waste throughput (Processed MSW)	t/d	700
Nominal Boiler steam capacity	t/h	66.5
Superheated steam pressure	Bar	46
Superheated steam temperature	°C	410
TURBO GENERATOR		
No. of Turbine	No.	1
Type		Impulse + reaction (multi-stage, extraction cum condensing type)
Power generation capacity		14MW

Table 23: Specification of the Plant		
Particular	Unit	Value/Description
Steam pressure inlet	Bar	44,5
Steam temperature inlet	°C	408
Exhaust steam pressure	Bar	0,15
Exhaust steam temperature	°C	53.08
Generator Type		Synchronous generator

4.3.4 Waste to Energy Process Description

Waste Handling

The collection vehicles post arriving at the plant will be weighted on the weigh bridge for recording net receipts of MSW received at the plant. The waste received will be then fed into the storage pit, the waste will then be fed into waste segregation system to remove inert material.

A drain system is also provided with a pump to extract the water from the storage pit, the drained water is then further sent to the treatment system. Later, a grab crane would be used for clearing the waste from the storage pit, mixing and transferring it to the feed hopper and for stocking the waste.

The grab crane will be remotely controlled from the crane operator's pull pit located in the controlled room at slightly higher level than the feed hopper. The waste grab crane will be equipped with a weight measuring system to auto record the waste flow transported to the feed hopper.

MSW processing section

After the MSW vehicle finishes its weightment at the entry gate, the trucks will then enter the closed reception area. GHMC trucks cover will be opened in the reception area and after visual inspection and will be unloaded in the Storage Pit.

MSW will be fed into the feeding hopper cum vibro feeder by using grab crane. MSW from the hopper

/feeder will be sent into the rotary trammel for innerts removal. Trammel is driven with a hydraulic system, completely covered, and will have replaceable perforated

sheets. Bottom belt conveyors will be provided to carry the innerstrs from the trammel to the innerts treatment plant.

The trammel output will be sent to the vibro screen for further screening. Vibro feeder output will be taken to the fuel pit by a belt conveyor. Ferrous material will be removed by an electromagnetic separator kept over a belt conveyor. Processed MSW / RDF will be stored in the fuel pit for further homogenization. Fuel pit will have 10,000 MT storage capacity.

Grate incineration

Grate incineration includes following equipment:

i. Feed Hopper

The feed hopper purpose is to feed the waste into the furnace and to seal the furnace from outside environment. The slope of the hopper walls and the arrangement of the hopper flap grate designed to prevent arch build-up and to ensure continuous feed to the incineration grate. The height of feed chute allows a sufficiently high waste column that seals the combustion chamber from the waste pit.

ii. Feed hopper cooling

Feed chute and support frame are equipped with a cooling water jacket for cooling the feed chute parts that are exposed to extreme thermal loads. The water tapping shall be taken from Aux cooling tower and circulate water in continuous basis.

iii. Ram feeder

The ram feeder feeds the waste into the incineration grate by using the lower part of the waste column in the feed chute by hydraulically operated ram feeders. The speed of forward movement of the ram feeder defines the waste flow to the grate.

iv. Air cooled grate

The air cooled grate is designed for transport and continuous combustion of waste, good burnt and transport of the bottom ash to ash extractor. The grate size is designed to allow thermal treatment of waste according to combustion diagram.

The inclined forward feed grate is based on a support structure which allows thermal expansion. The grate consists of 3 grate lanes. Each lane consists of 7 elements with a Grate drop after 2 elements. The Grate drop optimizes the combustion by mixing waste of low heating value. Two hydraulic cylinders as per element move the grate forward and backward for transport and riding of waste and transport of bottom ash to the extractor.

v. Combustion air system

Combustion air system feeds and regulates supply of air for the combustion on the grate. Combustion air is aspirate from the waste pit, measured and disturbed to the different consumers (primary air, secondary air & wall air).

Primary air is preheated using steam and a flue gas/air heat exchanger. A flue gas/air heat exchanger is necessary to reach sufficiently high primary air temperatures for burning low calorific waste with high water content.

Combustion air preheated – an air pre heater is installed on the pressure side of the combustion fan. This is used to improve waste combustion.

vi. Secondary Air system

Secondary air system feeds and regulates supply of secondary combustion air to burn out and mix the flue gases. As waste is not homogeneous fuel, flue gases of the first combustion stage above the grate are not completely burnt. The second combustion stage uses tangentially injected secondary air for good gas mixing and adds oxygen for complete gas burnout. Secondary air is extracted from the primary air system at the exit of the high pressure steam pre heater. Flow is measured using a venture tube system and regulated by an automatically operated flap.

The geometry of the combustion chamber and the arrangement of secondary air nozzles (to create swirl flow) are optimized for mixing of combustion gases and flow pattern of flue gases.

✶ Economiser System

The economiser section consists of four (4) tube banks in the 4th pass. It also includes the inlet piping, connecting piping to the drum and drains.

☛ Evaporator System

The evaporator consists of the membrane walls and one evaporator bundle in the 3rd pass with the necessary piping and connection.

☛ Steam Drum

The single steam drum includes steam/waste. Separating baffles or cyclones and all necessary pipes and trim connection. The boiler drum is of welded construction and fabricated from steel plate. The drum features a manhole and all necessary nozzles, connection and openings required for operation, maintenance and testing. All drum nozzles for valves, fitting and tubes are welded to the drum.

☛ Super Heater System

This system consists of four (4) super heaters that include the tube banks and the necessary piping and connections. The final super heater is made of high temperature resistant alloy steel avoid high temperature corrosion.

☛ Flue Gas/Primary Air Heater

The two (2) air heater banks are installed above the four (4) economiser's banks on the 4th pass. The air heaters operate in cross flow.

☛ Turbo generator

The steam generated in the boiler is supplied to a steam drive turbo-generator set. The turbo generator set generates electrical energy to supply to external electrical grid and also to meet the energy requirement of complete plant auxiliaries. By means of a pressure uncontrolled steam extraction, medium pressure steam is taken for process requirement in the plant. After the steam turbine, the expanded steam is condensed in an air cooled condenser. The condensate is returned to the feed water storage tank.

☛ Turbine

The steam flow rate pressure and temperature from the boiler to inlet of turbine is controlled by the combustion controlled system. Exhaust steam from the turbine is condensed in an air cooled condenser. The turbine has been provided with an uncontrolled extraction port to extract medium pressure (MP) steam for process requirements such as de-aerator / feed water tank, MP primary air preheater and sealing air heater. The steam pressure at this,

Water-steam-cycle

i. Feed Water System

The feed water system consists of the de-aerator/feed water storage tank, the two feed water pumps, the associated pipes and valves. Its purpose is to feed the boiler with de-aerated water and to provide spray water as cooling water for the desuperheater of the boiler, the steam pressure reduction station of the turbine bypass and the High Pressure (HP)-Mid pressure (MP) steam pressure reduction station.

ii. Feed Water Tank

The horizontal cylinder tank is supplied with a vertical de-aerator on top. In the de-aerator the returned condensate is heated using 5 bar steam and de-aerated.

iii. Feed Water Pump System

The feed water pump system consists of electrical feed water pumps, the associated pipes and valves. Its purpose is to feed the boiler with de-aerated water, to provide spray water as cooling water for the desuperheater of the boiler, the steam pressure reduction station of the turbine bypass and the high pressure (HP)-medium pressure (MP) steam pressure reduction station.

iv. HP Steam System

The boiler produces high pressure steam, which is during the normal operation taken over for utilization by others. The HP- steam system consists of the live steam piping from the boiler to turbine, the piping from the main steam line to the air cooled condenser via steam pressure reduction station of the 100% turbine bypass, the piping from the main steam line to the HP-Header via the steam pressure reduction station (HP/MP), the piping from the main steam line to the main and start-up air ejector and steam air pre-heater.

v. MP Steam System

The 5 bar steam system supplies steam to the deaerator/feed water tank, air preheater and sealing air heater. If the turbine is in operation, MP steam will be extracted from the turbine to the MP- Header. If the turbine is not in operation, the

MP steam will be supplied from the main steam line via the steam reduction station (HP/MP) to the MP-Header

vi. Condensate System

The condensate system consists of condensate tank, condensate transfer pumps, the steam jet air ejectors including the inter condenser and after condensers of the ejector system, the piping for condensate coming from the air cooled condenser via condensate pumps, the ejector condenser to the de-aerator blow down and drainage condensate from the low pressure system will be collected in the hot well tank and returned to the main condensate tank by the hot well pumps.

vii. Waste Water Treatment

Waste water system will be used for treatment of drain water from waste pit. The effluent from waste pit shall be treated in the aeration for the removal of COD&BOD by the extended aeration activated sludge technology. In the aeration tank aerobic bacteria will be used for the treatment of effluent. Treated effluent from the aeration tank will continuously flow towards clarifiers by gravity and will be dosed with coagulant. Clarifies will be used for continuous mechanical removal of settle able solids from wastes. The clarifier's rejects will be collected in RCC sludge pit the same shall be carried to bottom ash pit through trolley. The clarified water will be pumped in to Multi Grade filter for removal of suspended solids and treated water will be collected at the bottom. The collected water will be transferred to bottom ash water basin and the same shall be used as makeup water for bottom ash handling system.

4.2.5 Clearances & approvals required

Presently, the following licenses / approvals obtained by SVGPPL for the project:

Table 24: Statutory Permission and Clearances			
S. No	Approval / Clearance	Concerned Agency	Status
1.	Sanction of Project	TSREDCO	Obtained vide letter no: TGREDC/MSW/SVGR/2025-26/52 dated 09.04.2025.

Table 24: Statutory Permission and Clearances			
S. No	Approval / Clearance	Concerned Agency	Status
			Presently TREDCO has accepted company's request for extension of Financial Closure from 01.04.2023 to 30.09.2025.
2.	Environmental Clearance	Telangana State Pollution Control Board (TSPCB)	The project does not attract Environmental Clearance as per EIA Notification 2006 its amendment vide D.O. No. 22-19/2017-IA-III dated 03.07.2017. As per the office order no. D.O No. 22- 19 /2017 – IA – III dated 03.07.2017, Activities such as composting, RDF making and Waste to Energy pant (up to capacity of 15 MW) do not attract the provision of EIA notification 2006.
3.	Update Consent to Establish (CFE)	TGPCB	Obtained. Latest CFE vide order through Order No: 234/TGPCB/CFE/RO-RR-i/HO/MSW/2025, dated: 20.06.2025. Validity Period 30.06.2028
4.	NOC from Gram Panchayat	-	Obtained
5.	Construction of Power transmission line	TSSPDCL	Will obtain once work starts
6.	Airport Authority Clearance	Airports Authority of India (AAI)	Obtained on 18.11.2019
7.	Permission for water Usage	-	Yet to be obtained.
8.	Factory Licenses	-	Obtained through Lr. No.D.

Table 24: Statutory Permission and Clearances

S. No	Approval / Clearance	Concerned Agency	Status
			Dis.B3/RR/548/2020, dated: 03.02.2020
9.	Grid Connectivity	Transmission Corporation of Telangana Limited (TSTRANSCO)	Obtained vide Lr.No: CE/Comml&RAC/SE/Comml/DE/Comml/AE-BI & C/F-SVGPP/D. No24/20
10.	Municipal Waste	GHMC (Greater Hyderabad Municipal Corporation)	Obtained by Lr.No.147/AC(H&S)/SWM/GHMC/2019, dated: 03.10.2019
11.	PPA	Telangana State Southern Power Distribution Company (TSSPDCL)	Lr. No.CGM (IPC & RAC)/SE(IPC)/F.SVGPP/D.No 704/17, dated: 05.08.2017

4.2.6 Utilities

❖ Water

The plant will need 500KLD/day of water per day to work at 100% capacity. The total requirement of water will be fulfilled by Bore wells at the factory site. The water requirement will be further reduced while using the recycled water to the plant. The usages of water is given below

Table 25: Water Requirement		
Sl.No.	Purpose	After expansion (KLD)
1	RDF Plant	85.0 KLD
2	DM Plant	95.0 KLD
3	Cooling Water Makeup	250.0 KLD
4	Green Belt Development	20.0 KLD

Table 25: Water Requirement		
Sl.No.	Purpose	After expansion (KLD)
5	Fugitive Dust Suppression	20.0 KLD
6	Domestic	20.0 KLD
7	Service water	10.0 KLD
	Total	500.0 KLD

Waste water generation shall not exceed the following

Table 26: Waste Water Generation		
Sl.No.	Effluents	After expansion (KLD)
1	DM Plant	15.0 KLD
2	Cooling Water Makeup, requirement of turbine etc..	55.0 KLD
3	Service water	12.0 KLD
4	Domestic	8.5 KLD
	Total	90.5 KLD

❖ **Power Requirement**

As per the TSERC order dated 13.06.2016, the Commission has determined the auxiliary consumption to be 11% for a power project using RDF. Hence, considering an auxiliary consumption to be 11%, total in house power requirement will be 1.32 MW.

❖ **Secondary Fuel**

As per the TSERC order dated 13.06.2016, usage of secondary fuel shall be limited to only start-up operations.

❖ **Energy Meter**

Separate energy meter shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control Equipment to record energy consumed.

❖ **Rain water Harvesting (RWH)**

Separate energy meter shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control Equipment to record energy consumed.

❖ ETP & STP

The Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP) shall be constructed and commissioned along with the commissioning of activity. All the Unit of the ETP and STP shall be impervious to prevent ground water pollution.

❖ Air Pollution

The industry shall comply with the following for controlling Air pollution from the following Sources.

Table 27: Air Pollution			
Sl. No	Details of Stack	Stack 1	Stack 3 to 5
a	Attached to	Boiler	D.G. Set
b	Capacity of Boiler/Furnace/Kin/Incinerator/D.G. Set/Others	1*65.9 TPH	3*312KVA
c	Fuel form: Solid/Liquid/Gases	RDF	Diesel
d	Fuel Quantity :(L/KL per day)		
e	Stack Height	60 Mtrs Stack	5 Mtrs. Each
	Above the Ground		
f	Dimension /size in m.		
g	Details of Air pollution control Equipment	Bag house filters	Acoustic enclosure

Table 28: Air Quality		
S.No	Parameters	Acceptable Levels
a	Sulphur dioxide	80 $\mu\text{g}/\text{m}^3$
b	Suspended Particulate Matter	100 $\mu\text{g}/\text{m}^3$
c	Methane	Not to exceed 25 per cent of the lower

Table 28: Air Quality		
S.No	Parameters	Acceptable Levels
		explosive limit (equivalent $650 \mu\text{g}/\text{m}^3$)
d	Ammonia	$400 \mu\text{g}/\text{m}^3$
e	Carbon Monoxide	$02 \text{ mg}/\text{m}^3$ (8 Hour Average)

❖ Solid Waste Generated

Table 29: Solid waste Generated				
Sl. No	Solid waste Generated	Quantity(After Expansion)	Stream	Method of Disposal
1	Organic Woody Shell, Textile, Sand Stones, Sanitary wares and other	120 MT/Day	--	Organic waste is used as fuel. Other waste set to inert treatment plant with in the facility
2	Sand, silt, Biomass	20 MT/Day	--	Sold out for land fill
3	Glass, coconut shells, paper waste	10 MT/Day	--	Send to Authorized Recyclers
4	Fine & lighter particles produced during the primary shredding	35 MT/Day	--	Send to inert treatment plant
5	Stone, leather, Brickbats, Rubber	70 MT/Day	--	Disposed to GHMC

❖ Central Control Room

A CCR building will be constructed. Operation of entire plant from Raw Material unloading to power transfer will be carried out from the Control room.

❖ Fire Fighting System

In order to combat any occurrence of fire in plant premises the fire protection facilities will be provided for various units of the plant.

❖ Workshop

A mechanical and an electrical workshop will be available to take care of the regular maintenance/ repair jobs in the plant.

❖ **Machinery stores**

A store building will be constructed for storing tools, spare parts, consumables, etc. Open area already earmarked for storing machinery and construction materials for the proposed plant.

❖ **Weigh bridge**

One electronic weigh bridge already constructed to take care of the incoming and outgoing materials at the plant.

❖ **Parking**

Adequate parking space provided in the factory premises for the parking of vehicles.

4.2.7 Proposed Factory Layout Plan

SVGPPPL proposes to construct the following area:

Table 30: Factory Layout Plan		
Building & Civil Cost		
Particulars	Sq.Mt	Sq.ft
Security Room	25	269.00
WTP/LAB	200	2152.00
RDF Plan	1500	16140.00
LTP	659.57	7096.97
ITP	979.09	10535.01
Switch Yard	1600	17216.00
Workshop Store/Workers Block	3096.96	33323.29
Weigh Bridge Control Room	30	322.80
Boiler 1 and MSW PIT	3304.44	35555.77
Gate Security Room	20.31	218.54
ACC 1	555.16	5973.52
TG 1	365.69	3934.82
Total area	12336.22	132737.727
		Sq.Mt

Table 30: Factory Layout Plan		
Building & Civil Cost		
Parking Area (Required)	22%	2713.97
Parking Area (Proposed)	60%	7383.28
TOT LOT Area (Required)		7548.55
TOT LOT Area (Proposed)		21931.73

4.2.8 EPC Supplier

SVGPPPL has proposed to enter into final Contract with **Hitachi Zosen India Private Limited (HZIPL)**. The company has received a commercial proposal of Rs. 181.56 crore from Hitachi Zosen India Pvt. Ltd. The Contract is proposed to be signed once the financial closure is achieved. As per the commercial proposal, the plant is expected to be implemented within a period of 20-22 months from the date of NTP.

The salient features of Commercial Proposal submitted by Hitachi Zosen India Private Limited are as under:

Table 31: EPC Contract Terms & Conditions	
SUPPLY CONTRACT	
Scope	Design, Manufacture, Supply, Erection and commissioning of all equipment including pre-processing system required for establishment of 700 TPD waste to energy plant (except civil construction related to site boundary wall, security house, approach road, auxiliary buildings etc.) as mentioned below: - Project Management & Engineering - Erection and Commissioning of Power Plant System such as: - Waste Handling System - Grate Incineration System - Furnace and Boiler system - Primary & Secondary Air System - Turbo Generator system (Turbine, Generator, Air cooled condenser etc.) - Flue Gas system - Bottom Ash Handling System

Table 31: EPC Contract Terms & Conditions

	• Electrical Power System (Switchyard, Transformer, Earthing etc.) • Control and Monitoring System • Water Treatment System Civil Infrastructure for project
Contract Price	Lump sum Contract Price of Rs. 181.56 crore on FOR site basis inclusive of Transit insurance and GST
Terms of Payment	<u>For Supply</u> • 10 % of Contract Price as advance payment (reducing basis) upon signature of contract against submission of <i>Advance Payment Bond</i> • 10 % of Contract Price against submission of GA, P&I drawings and civil load data. • 75 % of Supply price shall be paid on pro-rata on the receipt of goods at site against site, • 5% of Contract price on successful completion of <i>Provisional Acceptance test</i> of the Equipment and <i>against submission of warranty bank guarantee valid for warranty period.</i> <u>For Services</u> • 10% of Contract Price along with IGST/CGST/SGST shall be paid as advance, against submission of <i>advance payment guarantee.</i> • 10% of the Contract Price along with IGST/CGST/SGST shall be paid on mobilization of site for start of erection of the equipment. • 75% of Contract Price along with IGST/CGST/SGST shall be paid on monthly progress of erection certified by Purchaser. • 5% of the Contract Price along with IGST/CGST/SGST shall be paid on completion of commissioning of the plant. <u>Mode of payment</u> The PURCHASER shall arrange to establish an Irrevocable "at sight" Letter of Credit for 90% Contract value on a text acceptable to the CONTRACTOR failing which the project schedule shall be extended proportionately as well as price thereof.

Table 31: EPC Contract Terms & Conditions

Effective Date of Contract	Effective Date of Contract The effective date of contract shall be the date on which the following are completed: • Signing of Contract • Opening of Letter of Credit in favour of CONTRACTOR • Receipt of First Advance payment
Insurance	The CONTRACTOR is responsible for placement and costs of site storage insurance and all necessary project insurances including, for example, Erection All Risk, third party property and surrounding property.

4.2.9 Hitachi Zosen India Pvt. Ltd (HZIPL)

Hitachi Zosen India Pvt. Ltd. is a wholly own subsidiary of Hitachi Zosen Corporation Limited and provides tailored Waste to Energy Solutions for India. Hitachi Zosen Corporation established in 1934, has its presence in the business of Design and construction of environmental systems, industrial plants, industrial machinery, process equipment, infrastructure-related equipment, disaster prevention systems, and precision machinery. With worldwide more than 458 waste-to-energy plants, Hitachi Zosen Group is one the major players in the waste-to-energy technology market. Some of the plants installed are as follows:

Table 32: Hitachi Zosen India Pvt. Ltd		
Location	MSW requirement	Capacity in MW
Riverside, London, UK	763 t/d x 3 lines	65MW
Issy-les-Moulineaux, Paris, France	740t/dx2Lines	52MW
Shanghai Laogang, China	750t/dx4Lines	60MW
Incheon, Korea	750t/dx2Lines	53MW
Tokyo Chuō, Japan	300t/dx2Lines	15MW
Falls Township, USA	750t/dx2Lines	53MW
Osaka Maishima, Japan	450t/dx2Lines	32MW

4.2.10 Function of Major Plant & Machinery

Table 33: Function of Major Plant & Machinery			
	Equipment		Function
1	Steam Turbine & generator		With the pressured steam released through the turbine chamber, the turbines will rotate. The electromagnetic arrangement with the turbine generates electric power
2	Boiler and Condenser & auxiliaries		Generates steam from water using the heat from the firing of the fuel
3	Fuel handling system		Feeds the fuel (Biomass & Coal) from the storage yard
4	Ash handling system		Boiler generates bottom ash and fly ash in the process of burning the fuel. The ash handling system - Removes bottom ash using the grate movement system - Removes the fly ash with the electrostatic precipitating system

Table 33: Function of Major Plant & Machinery

	Equipment		Function
5	Cooling tower		Cooling towers supplies cooling water to the turbine system to • Cool the steam coming out of turbine to the required temperature and pressure. Condensate steam to water. The condensate thus formed shall be re-used as input for the boiler
6	EOT Crane		EOT crane is used for the handling of generators.
7	Air compressor system		Compressed air is required for the control valves
8	Water treatment plant		Boiler needs soft water for the well functioning and longevity. The water treatment plant softens the bore well water and supplies to the boiler

Table 33: Function of Major Plant & Machinery			
	Equipment		Function
9	Switch yard/HT & LT transformers		In order to export the excess power to the grid, a switch yard is required to link the power output to the grid at the junction.
10	DG set		Diesel generator set is required for the backup purposes when there is a failure in the generation plant or when the generation plant is shut down for maintenance.

4.2.11 Implementation Schedule

Presently Company has proposed an implementation schedule of 17-18 months from April, 2024 and proposed commercial operations from 1st October, 2025 for the proposed 14MW Plant. The company is in process of starting land development work from April 2024 onwards. Based on our past experiences in appraisal of this kind of project, it is observed that, plant can be installed and commissioned within a period of 17-18 months.

The implementation schedule for the project is provided below:

Table 34: Proposed Implementation Schedule			
Sl. No	Activity	Commencement	Completion
1	Acquisition of land		Already Acquired
2	Land Development Work	July 2025	August 2025
2	Civil Construction	July 2025	February 2026
3	Plant & Machinery	September 2026	November 2026
4	Delivery at site	November 2026	January 2027

Table 34: Proposed Implementation Schedule			
Sl. No	Activity	Commencement	Completion
5	Erection	January 2027	May 2027
6	Power Connection	January 2027	February 2027
7	Appointment of staff	March 2027	April 2027
8	Trial runs	May 2027	June 2027
9	Commercial productions	July 2027	

4.2.12 Municipal Solid Waste (MSW) Requirement and Arrangement

GHMC had called tenders from interested bidders for concept, design, fund, own, operate and maintain basis for establishment of an MSW processing facilities SVGPPPL had been allocated Integrated Solid Waste management Facility with 12 MW power plant vide G.O.Ms. No. 413 dated 11.06.2008 by MA & UD, Govt. of Telangana (erstwhile united Andhra Pradesh).

Based on the same, SVGPPPL had signed Concession Agreement dated 10.11.2010 with GHMC for supply of 700 Ton per Day (TPD) of MSW for 30 years for establishment of Integrated Municipal Solid Waste management Facility with 14 MW power plant.

The salient feature of Concession Agreement is as below:

Table 35: Major Points Concession Agreement		
SL No	Particular	Terms
1.	Grant of Concession	SVGPPPL is given the right to investigate, study, conceptualize, design, engineer, procure, finance, construct, own, operate and maintain the integrated solid waste management project facility with 14 MW power plant.
2.	Concession Period	SVGPPPL shall receive 700 TPD of MSW generated within territory of GHMC free of cost for a period of 30 years commencing from the COD of plant.
3.	Royalty	SVGPPPL shall pay a royalty of Rs. 25/MT of MSW supplied by GHMC to the project site.

4.2.13 MSW Scenario in Hyderabad

The Greater Hyderabad Municipal Corporation (GHMC) was formed in April 2007 by merging the Municipal Corporation of Hyderabad (MCH) of the Hyderabad, Ranga Reddy and Medak districts covering a total area of 650 km² (250 sq. mi). Greater Hyderabad Municipal Corporation (GHMC) manages the municipal services in Hyderabad city. GHMC is collecting various types of waste such as wet waste, dry waste, bio waste, E-waste, and toxic waste.

Per day generation of MSW in the city has reached to 8,200 MT during 2021-22 of which around 68% of MSW sourced from residence/households, followed by commercials (14%), restaurants & hotels (12%), hospitals & clinics (4%) and industries (2%).

MSW generation in the city grew at a CAGR of 15.6% between 2020-21 and 2021-22 due to improvement in effective garbage collection from the residences of GHMC area through Swatch auto tippers and tricycles. It is anticipated that MSW generation in Hyderabad will reach to a level of 10,200 TPD by 2024-2.

The city has been divided into five zones namely, North, South, East, West, and Central zones. GHMC has strategically constructed 22 transfer stations wherein segregated waste is brought by Swatch auto tippers in and around the city. Majority of the garbage collected from residences in GHMC areas is collected from Swatch Auto Tippers and tricycles. These auto trippers and tricycles carry the garbage to transfer stations where the garbage is shifted to the large capacity vehicle (25 tonnes). Waste from all the collection points eventually gets collected and dumped into the landfill at Jawahar Nagar.

4.2.14 Physical Characteristic of MSW

Table 36: Physical Characteristic of MSW		
S. No	Physical Characteristics	Average (%)
1	Organic Waste	48.22
2	Paper and Cardboard	7.26
3	Plastics	8.61
4	Metals	0.52

Table 36: Physical Characteristic of MSW		
S. No	Physical Characteristics	Average (%)
5	Glass & Ceramics	1.66
6	Rags/Cloth/Cotton	5.7
7	Rubber and Synthetics	1.82
8	Leather	1.29
9	Garden Waste	2.97
10	Stone Debris and boulders	0.8
11	Bio Medical Waste	0.57
12	Sand Silt and Earth	11.62
13	Coconut Shell	0.09
14	Others	8.87

Chemical Characteristics

Chemical properties analyzed for MSW include moisture, carbon content, nitrogen, calorific value and heavy metals. Chemical properties are analyzed to make decision on the most suitable waste processing technology. Calorific value is the indicator of suitability of waste for waste to energy technologies. A detailed chemical property of MSW generated in the city is as indicated below:

Table 37: Chemical Characteristics		
Sl. No	Chemical Property	Range
1	pH	6.24 – 7.15
2	Moisture Content (%)	31.73 – 59.24
3	Carbon Content (%)	7.6 – 15.6
4	Nitrogen mg/Kg	4500 – 7200
5	Zinc, mg/Kg	132 - 272
6	Lead, mg/Kg	10 - 25
7	Nickel, mg/Kg	1 - 6
8	Calorific Value, Kcal/Kg	1250 - 2550

Waste Collection by GHMC

The following activities have been implemented by GHMC towards waste collection:

❖ **Waste collection and transportation**

Door to door collection of waste is accomplished with the help of collection crew using tricycles. The waste collected from residences on regular basis is then placed in nearby dumper bins or secondary open collection pits. The MSW from markets and other common places would be collected through sweeping teams. GHMC use tippers to transport waste from Transfer stations to the disposal site.

❖ **Disposal of Waste**

The final disposal of the waste has to be through a sanitary landfill site, after removal of the recyclable and biodegradable waste. Jawaharnagar and Imlibun are the disposal sites used by GHMC to meet the waste disposal needs.

4.3 Commercial Analysis

4.3.1 Indian Economy Overview

India has emerged as the fastest growing major economy in the world and is expected to be one of the top three economic powers of the world over the next 10-15 years, backed by its strong democracy and partnerships.

India's economy expanded by 6.1 percent in the Q4 of the fiscal year 2022-23, leading to an annual growth rate of 7.2 percent. The growth rate during the January-March period surpassed the 4.5 percent expansion witnessed in the previous quarter of October-December 2022-23.

According to official figures released on May 31, 2023, The estimated Q4 GDP for the current fiscal year stands at ₹43.62 lakh crore, compared to ₹41.12 lakh crore recorded in Q4 of the previous fiscal year 2021-22.

On June 12, 2023, Finance Minister Nirmala Sitharaman's office tweeted that India's GDP touched the \$3.75 trillion mark in 2023. The Ministry also confirmed that India has now become the fifth largest economy in the world, moving from the tenth spot. At \$3,737 billion in current price terms, India's GDP is only lower than the US (\$26,854), China's (\$19,374 billion), and Germany's (\$4,309 billion).

India needs to increase its rate of employment growth and create 90 million non-farm jobs between 2023 and 2030s, for productivity and economic growth according to McKinsey Global Institute. The net employment rate needs to grow by 1.5% per year from 2023 to 2030 to achieve 8-8.5% GDP growth between 2023 and 2030.

In the Union Budget 2022-23, effective capital expenditure is expected to increase by 27% at Rs. 10.68 lakh crore (US\$ 142.93 billion) to boost the economy. This will be 4.1% of the total Gross Domestic Production (GDP).

According to data from the Department of Economic Affairs, as of June02, 2023, foreign exchange reserves in India reached the US\$ 595.067 billion mark, the highest ever, with the Foreign Exchange Assets (FCA) component at around US\$526.201 Billion, Gold Reserves at around US\$45.557 Billion, SDRs (Special Drawing Rights with the IMF) of around US\$18.186 Billion and around US\$5.123 Billion Reserve Position in the IMF, as per Reserve Bank of India's (RBI) weekly

statistical supplement published on 02 June 2023. The Economic survey of India 2014-15 said India could target foreign exchange reserves of US\$750 Billion-US\$1 Trillion with incoming 2026.

(Source: IBEF)

4.3.2 Waste to Energy Overview

The increasing industrialization, urbanization and changes in the pattern of life, which accompany the process of economic growth, give rise to generation of increasing quantities of wastes leading to increased threats to the environment. In recent years, technologies have been developed that not only help in generating substantial quantity of decentralized energy but also in reducing the quantity of waste for its safe disposal.

Types of Waste

There are different types of waste which are generated from our daily or industrial activities such as organic waste, e-waste, hazardous waste, inert waste etc. Organic waste refers to waste which degrades or broken down by microorganisms over time. All organic wastes are essentially carbon based compounds; though they may be diverse in nature and have different degradation rate. Organic waste has significant portion in overall waste generation in industrial/urban/ agricultural sector and therefore it can be used for energy generation.

The organic fraction of waste can be further classified as non-biodegradable and biodegradable organic waste.

- ✓ **Biodegradable waste** consists of organics that can be utilized for food by naturally occurring micro- organisms within a reasonable length of time. The biodegradable organic comprise of agro residue, food processing rejections, municipal solid waste (food waste, leaves from garden waste, paper, cloths/ rags etc.), waste from poultry farms, cattle farm slaughter houses, dairy, sugar, distillery, paper, oil extraction plant, starch processing and leather industries.
- ✓ **Non-Biodegradable organic** materials are organics resistant to biological degradation or have a very low degradation rate. This primarily includes

woody plants, Cardboard, cartons, containers, wrappings, pouches, discarded clothing, wooden furniture, agricultural dry waste, bagasse, rice husk etc.

TECHNOLOGIES AVAILABLE

❖ BIOMETHANATION

Bio methanation is anaerobic digestion of organic materials which is converted into biogas. Anaerobic digestion (AD) is a bacterial fermentation process that operates without free oxygen and results in a biogas containing mostly methane (~60%), carbon dioxide (~40%) and other gases. Bio methanation has dual benefits. It gives biogas as well as manure as end product.

❖ INCINERATION

Incineration technology is complete combustion of waste (Municipal Solid Waste or Refuse derived fuel) with the recovery of heat to produce steam that in turn produces power through steam turbines.

The flue gases produced in the boilers have to be treated by an elaborate air pollution control system. The resultant ash from incineration of solid waste can be used as construction material after necessary processing while the residue can be safely disposed of in a landfill.

This technology is well established technology and has been deployed in many projects successfully at commercial level in India to treat solid wastes like Municipal Solid Waste and Industrial solid Waste etc. and generate electricity.

❖ GASIFICATION

Gasification is a process that uses high temperatures (500-1800o C) in the presence of limited amounts of oxygen to decompose materials to produce synthetic gas (a mixture of carbon monoxide (CO) and hydrogen (H₂)). Biomass, agro-residues, Segregated MSW and RDF pellets are used in the gasifier to produce Syngas. This gas further can be used for thermal or power generation purposes.

❖ PYROLYSIS

Pyrolysis uses heat to break down combustible materials in the absence of oxygen, producing a mixture of combustible gases (primarily methane, complex hydrocarbons, hydrogen, and carbon monoxide), liquids and solid residues. The products of pyrolysis process are: (i) a gas mixture; (ii) a liquid (bio-oil/tar); (iii) a solid residue (carbon black). The gas generated by either of these processes can be used in boilers to provide heat, or it can be cleaned up and used in combustion turbine generators. The purpose of pyrolysis of waste is to minimize emissions and to maximize the gain.

Summary of the sector wise covering urban and industrial sectors mainly for energy potential for India is given as below.

Table 38: Potential of Waste to Energy Power Plant		
Sl.No	Sectors	Energy potential – MW
1	Urban Solid Waste	1247
2	Urban Liquid waste	375
3	Paper (liquid waste)	254
4	Processing and preserving of meat (liquid waste)	182
5	Processing and preserving of meat (solid waste)	13
6	Processing and preserving of fish, crustaceans and molluscs (liquid waste)	17
7	Vegetable Processing (solid waste)	3
8	Vegetable Raw(solid waste)	579
9	Fruit Processing (solid waste)	8
10	Fruit Raw (solid waste)	203
11	Palm Oil (solid waste)	2
12	Milk Processing/Dairy Products (liquid waste)	24
13	Maize Starch (liquid waste)	47
14	Tapioca Starch (liquid waste)	36
15	Tapioca Starch (solid waste)	15
16	Sugar (liquid waste)	49
17	Sugar press mud (solid waste)	200

Table 38: Potential of Waste to Energy Power Plant		
Sl.No	Sectors	Energy potential – MW
18	Distillery (liquid waste)	781
19	Wine Industry	NA
20	Slaughterhouse (solid waste)	48
21	Slaughterhouse (liquid waste)	263
22	Cattle farm (solid waste)	862
23	Poultry (solid waste)	462
24	Chicory (solid waste)	1
25	Tanneries (liquid waste)	9
26	Tanneries (solid waste)	10
Total MW		5690

(Source: Ministry of Renewable Energy)

4.3.3 Municipal Solid Waste Generation Per Day In India

This municipal solid waste is a composition of both degradable and non-degradable materials comprising 30-50% organic matter, 7-10% recyclables, and the rest inert matter. As per Central Pollution Control Board(CPCB) survey, 366 cities in India generated 62.00 million tons of waste in 2022 and are presently generating 147,623 metric tons, a 50% boom in one decade. It's far anticipated that these 366 cities will produce 240 million tons per day (TPD) of MSW by 2040

4.3.4 Overall Solid Waste Management Status

The total quantity of Solid waste generated in the country is 160038.9 TPD of which 152749.5 TPD of waste is collected at a collection efficiency of 95.4%. 79956.3 TPD (50%) of waste is treated and 29427.2 (18.4%) TPD is landfilled. 50655.4 TPD which is 31.7% of the total waste generated remains un-accounted. State-wise details of solid waste management is given below

Table 39: Overall Solid Waste Management Status					
Sl. No.	State	Solid waste generated (TPD)	Collected (TPD)	Treated (TPD)	Landfilled (TPD)
1	Andhra Pradesh	6898	6829	1133	205

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPL)
At Yachuram Village & Mandal, Ranga Reddy District, Telangana*

Table 39: Overall Solid Waste Management Status

Sl. No.	State	Solid waste generated (TPD)	Collected (TPD)	Treated (TPD)	Landfilled (TPD)
2	Arunachal Pradesh	236.51	202.11	Nil	27.5
3	Assam	1199	1091	41.4	0
4	Bihar	4281.27	4013.55	Not provided	No
5	Chhattisgarh	1650	1650	1650	0
6	Goa	226.87	218.87	197.47	22.05
7	Gujarat	10373.79	10332	6946	3385.82
8	Haryana	5352.12	5291.41	3123.9	2167.51
9	Himachal Pradesh	346	332	221	111
10	Jammu & Kashmir	1463.23	1437.28	547.5	376
11	Jharkhand	2226.39	1851.65	758.26	1086.33
12	Karnataka	11085	10198	6817	1250
13	Kerala	3543	964.76	2550	Not Provided
14	Madhya Pradesh	8022.5	7235.5	6472	763.5
15	Maharashtra	22632.71	22584.4	15056.1	1355.36 (Unscientifically disposed= 6221.5)
16	Manipur	282.3	190.3	108.6	81.7
17	Meghalaya	107.01	93.02	9.64	83.4
18	Mizoram	345.47	275.92	269.71	0
19	Nagaland	330.49	285.49	122	7.5
20	Odisha	2132.95	2097.14	1038.31	1034.33
21	Punjab	4338.37	4278.86	1894.04	2384.82
22	Rajasthan	6897.16	6720.476	1210.46	5082.16
23	Sikkim	71.9	71.9	20.35	51.55
24	Tamil Nadu	13422	12844	9430.35	2301.04
25	Telangana	9965	9965	7530	991
26	Trīpura	333.9	317.69	214.06	12.9
27	Uttarakhand	1458.46	1378.99	779.85	-
28	Uttar Pradesh	14710	14292	5520	0
29	West Bengal	13709	13356	667.6	202.23
30	Andaman and	89	82	75	7

Table 39: Overall Solid Waste Management Status

Sl. No.	State	Solid waste generated (TPD)	Collected (TPD)	Treated (TPD)	Landfilled (TPD)
	Nicobar Islands				
31	Chandigarh	513	513	69	444
32	DDDNH	267	267	237	14.5
33	Delhi	10990	10990	5193.57	5533
34	Lakshadweep	35	17.13	17.13	Nil
35	Puducherry	504.5	482	36	446
	TOTAL	160038.9	152749.5	79956.3	29427.2

Source: Central Pollution Control Board

Table 40: Solid Waste Generation Per Capita

Year	Solid Waste Generation Per Capita(gm/day)
2015-16	118.68
2016-17	132.78
2017-18	98.79
2018-19	121.54
2019-20	119.26
2020-21	119.07

Source: Central Pollution Control Board

4.3.5 Indian Power Sector Market Size

India ranks 3rd in renewable energy country attractive index in 2021 and 3rd largest energy consuming country in the world.

India stands 4th globally in Renewable Energy Installed Capacity (including Large Hydro), 4th in Wind Power capacity & 4th in Solar Power capacity (as per REN21 Renewables 2022 Global Status Report).

The country has set an ambitious target to achieve a capacity of 175 GW worth of renewable energy by the end of 2022, which expands to 500 GW by 2030. This is the world's largest expansion plan in renewable energy.

India was the second largest market in Asia for new solar PV capacity and third globally (13 GW of additions in 2021). It ranked fourth for total installations (60.4 GW), overtaking Germany (59.2 GW) for the first time.

India's installed renewable energy capacity has increased 396% in the last 8.5 years and stands at more than 159.95 Giga Watts (including large Hydro), which is about 40% of the country's total capacity (as on 31st March 2022). The installed solar energy capacity has increased by 19.3 times in the last 8 years, and stands at 56.6 GW as of 1st June 2022. The installed Renewable energy capacity (including large hydro) has increased from 76.37 GW in March 2014 to 159.95 GW in May 2022, i.e. an increase of around 109.4%. The installed power capacity in the country is around 408.72 GW as of 30th November 2022.

India achieves 166GW of renewable energy capacity till October 2022. India has achieved its NDC target with total non-fossil based installed energy capacity of 159.95 GW which is 41.4% of the total installed electricity capacity.

(Source: <https://www.investindia.gov.in/>)

4.3.6 Existing MSW based WTE Plants in India

Details of existing waste to energy plants in India are as shown below.

State	Company / Operator	Location	Installed Capacity (MW)	Raw Material Requirement (TPD)
Delhi	Jindal Urban Infra. Pvt. Ltd.	Okhla	16 MW	~1,950 TPD
Delhi	IL&FS Environment Infra. & Servs. Ltd.	Ghaziपुर	12 MW	1,300 TPD
Delhi	Ramky Energy (Delhi MSW Solutions Ltd)	Narela – Bawana	24 MW	2,400 TPD (2×600 TPD × 2)
Telangana	Ramky Group (HI MSW Ltd)	Jawaharnagar (Phase I) Hyderabad	19.8 MW	1,200 TPD
Maharashtra	Solapur Bio-energy Systems Pvt. Ltd.	Solapur	3 MW	400 TPD
Andhra Pradesh	Shriram Energy Systems Ltd	Vijayawada	6 MW	650 TPD MSW + 250 TPD RDF

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At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Table 41: Existing Waste to Energy Plants in India				
State	Company / Operator	Location	Installed Capacity (MW)	Raw Material Requirement (TPD)
Telangana	IL&FS / Ramky Group (?)	Karimnagar	12 MW	1,100 TPD
Andhra Pradesh	Shriram Energy Systems Ltd. & SELCO International Ltd.	Vijayawada & Hajipur (Guntur ctor)	6 MW & ~15 MW	650 MSW + 250 RDF; ~1,600 MSW feeding 15 MW plant
Madhya Pradesh	Ramky Group	Rewa / Jabalpur	6 MW / 11 MW	310 TPD / 600 TPD
Maharashtra	Essel Infra / Pune Bio-Energy Systems	Pune / PCMC (Pimpri-Chinchwad)	~14 MW	700-800 TPD
Gujarat	Abellon / Hanjer Biotech Energies	Jamnagar / Surat (Galla)	7-15 MW	650-1000 TPD
Haryana	Sonipat Cluster Pvt Ltd	Sonipat, Haryana	8 MW	800 TPD
Telangana	Ramky/HI MSW Ltd	Jawaharnagar Phase I	19.8 MW	1,200 TPD
Telangana	Hyderabad MSW Energy Sol. Pvt Ltd	Jawaharnagar Phase II	24 MW	2*600 TPD RDF
Andhra Pradesh	Shriram Energy / SELCO	Vijayawada	6 MW	650 MSW + 250 RDF
Andhra Pradesh	Jindal (Inspected June 2025)	Guntur	20 MW	1,600 TPD
Madhya Pradesh	Ramky MSW Holding Ltd	Rewa	6 MW	310 TPD
Madhya Pradesh	Essel Infra	Jabalpur	11.5 MW	600 TPD
Maharashtra	Pune Bio-Energy / Essel Infra	Pune	14 MW	800 TPD
Maharashtra	PCMC WtE (Essel/others)	Pimpri-Chinchwad	14 MW	700-800 TPD
Gujarat	Abellon/Hanjer Biotech Energies	Jamnagar	7.5 MW	650 TPD

(Source: MNRE, MoUD)

4.3.7 Existing MSW based WTE Plants in Telangana

Table 42: Existing MSW based WTE Plants in Telangana			
Particulars	RDF Power	Ramky Enviro	SV Green
Promoters (Government/Private)	Private (Under PPP Mode with GHMC)	Private (Under PPP Mode with GHMC)	Private

Table 42: Existing MSW based WTE Plants in Telangana			
Particulars	RDF Power	Ramky Enviro	SV Green
Location	Bibinagar, Telangana	Jawaharnagar, Hyderabad, Telangana	Yacharam, Telangana
Installed Capacity (MW)	11	24 (Under Phase-I)	12
Consumption of Raw Material per MW (TPD)	700	1400	700
Sourcing of Raw Material	GHMC	GHMC	GHMC
Technology Adopted for WTE	MSW->RDF Combustion	MSW – RDF Mass burning/Combustion	RDF Combustion
Technology Source	Indigenous and Import	Indigenous and Import	Indigenous and Import
Current status of the Project	Implemented	Implemented	under Process

(Source: MNRE, MOUD)

4.3.8 MSW Rules 2016

The solid waste generated in an area except industrial and agricultural waste termed as municipal solid waste (MSW) as per MSW rules 2106.

MSW Defined as "solid waste" means and includes solid or semi-solid domestic waste, sanitary waste, commercial waste, institutional waste, catering and market waste and other non-residential waste, street sweepings, silt removed or collected from the surface drains, horticulture waste, agriculture and dairy waste, treated bio-medical waste excluding industrial waste, bio-medical waste and e-waste, battery waste, radio-active waste generated in the area under the local authorities and other entities mentioned in rule 2 as mentioned in MSW Rules 2016 document.

Major Features

- ✓ The source of segregation of waste has been mandated to channelize the waste to wealth by 3R model (recovery, reuse, and recycle).
- ✓ Responsibilities of generators have been introduced to segregate waste in to three streams, as wet, dry and domestic hazardous waste and handover these segregated wastes to authorized waste collectors or local collecting bodies.
- ✓ Generator will have to pay user fee to waste collector and charge fine on non-segregation of waste.
- ✓ The concept of partnership in Swatch Bharat has been introduced. Bulk and institutional generators, market associations, event organizers and hotel and restaurant have been made direct responsible for segregation and sorting waste and manage waste in partnership with local bodies.
- ✓ All resident welfare, market associations, gated communities and institution with an area of 5,000 sq.m should segregate waste at source into valuable dry waste and handover recyclable material to either the authorized waste pickers or the authorized recyclers or to the urban local bodies (ULB)
- ✓ The bio-degradable waste should be processed, treated, and disposed of through composting or bio-methanation within the premises as far as possible. The residual waste shall be given to the waste collectors or agency as directed by the local authority.
- ✓ All manufacturers of disposable products who sell or market their products in such packing material which are non-biodegradable should put in place a system to collect back the packing waste generated due to their production.
- ✓ The concept of RDF, types of waste generated and the need for WTE are also mentioned in the MSW Rules, 2016.

4.3.9 Government Regulations for MSW and WTE

The Ministry of Environment and Forests (MOEF) is taking care of issues related to solid waste management (SWM) together with Central and State Pollution Control Boards. There are various rules framed under Environment Protection Act-1986 for improving management of solid waste. SWM falls under state list as it is considered as public health and sanitation as per Indian constitution. Due to its local nature, SWM is the responsibility of Urban Local Bodies (ULB). The legislations follow as under:

- ✓ Environment Protection Act – 1986
- ✓ Hazardous Waste Management and Handling Rules – 1989
- ✓ Manufacturing, Storage, and Transportation of Hazardous Waste Rules – 1989
- ✓ Bio-Medical Waste Management and Handling Rules – 1998 & 2016
- ✓ Municipal Solid Waste Management and Handling Rules – 2000 & 2016
- ✓ Plastic Waste Management and Handling Rules – 2011 & 2016
- ✓ E-Waste Management and Handling Rules – 2011 & 2016

4.3.10 MNRE Policy

MNRE has promoted the national programme for the recovery of energy from industrial and urban waste. Since this programme seeks to promote setting up of waste-to-energy plants, various financial incentives and other eligibility criteria have been proposed by the MNRE to encourage the participation in waste-to-energy projects. These are listed below

- ✓ Financial assistance is provided by way of interest subsidy for commercial projects
- ✓ Financial assistance is provided on the capital cost for demonstration projects that are innovative in terms of generation of power from municipal/ industrial waste.
- ✓ Financial assistance is provided for power generation in STPs.
- ✓ Financial incentives are provided to municipal corporations for supplying garbage free of cost at the project site and for providing land.
- ✓ Incentives are given to the state nodal agencies for promotion, co-ordination and monitoring of such projects.

- ✓ Financial assistance provided for carrying out studies on waste to energy projects, covering full costs of such studies.
- ✓ Assistance is provided in terms of training courses, workshops and seminars and awareness generation.

4.3.11 Advantage and disadvantage of WTE

Advantages

- ☞ WTE energy reduces the demand of fossil fuel based energy, maximizes the recycle, reuse of solid waste to generate power.
- ☞ WTE generates reliable energy from a renewable fuel source, thus reducing dependence on fossil fuels which is a major contributor to Green House Gas (GHG) emissions.

Disadvantages

- ☞ WTE is still a new concept in the country; Most of the proven and commercial technologies in respect of urban waste are required to be imported;
- ☞ The cost of the projects especially based on bio-methanation, pyrolysis technology is high as critical equipment for a project is required to be imported.
- ☞ Lack of conducive policy guidelines from State Governments in respect of allotment of land, supply of long term garbage and assurance of power purchase and evacuation facilities.

4.3.12 Upcoming WTE Plants in India

Ministry of Urban Development (MOUD) has received 52 proposals from 22 states with potential to generate 405.3 MW of electricity under Swachh Bharat Mission (SBM), which are currently under various stages of construction or tendering.

Table 43: Upcoming WTE Plants in India			
SL. No.	State	No. of Plants	Total Proposed capacity (MW)
1	Andhra Pradesh	11	85

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Table 43: Upcoming WTE Plants in India			
SL. No.	State	No. of Plants	Total Proposed capacity (MW)
2	Assam	1	5
3	Bihar	1	12
4	Chhattisgarh	2	10
5	Delhi	1	1.6
6	Gujarat	3	30.5
7	Haryana	3	18.5
8	Himachal Pradesh	1	1.7
9	J&K	1	6.5
10	Jharkhand	2	23
11	Karnataka	2	20
12	Kerala	1	10
13	Madhya Pradesh	5	32
14	Maharashtra	3	28.5
15	Manipur	1	1
16	Odisha	1	11.5
17	Punjab	2	16
18	Rajasthan	3	26
19	Tamil Nadu	1	8
20	Telangana	1	11
21	Uttar Pradesh	5	25
22	West Bengal	1	22.5
	Total	52	405.3
<i>Source: MNRE</i>			

4.3.13 Power Purchase Agreement (Draft) between TSSPDCL and SV Green

The entire power will be transferred to TSREDCL through PPA agreement. SV Green has also entered in to an agreement with TSREDCL on 15.10.2016. Some of the major observations based on the review of agreement are as follows

- ✓ The developer shall establish 14 MW capacity power project in an integrated Municipal Solid Waste Management Facility based on Municipal Solid Waste (RDF).
- ✓ The developer shall obtain all the necessary clearance and approvals to establish and operate the plant to which TNREDCL shall facilitate the procurement from the Concerned Authority.
- ✓ Abide by the rules, regulations and proceeding of Telangana State Electricity Regulation Commission (TSERC), GHMC and other related department from time to time.
- ✓ Financial Closure shall be completed within a period of six months from the date of signing the agreement or with such extended period as granted by TNREDCL. The Consultants awaits status of extended period granted by TNREDCL.
- ✓ Delay in implementation commissioning of the plant attracts a penalty of INR 20000 per MW or any amount decided from time to time for each fortnight delay, provided such delay shall not exceed 3 months. Delay exceeding 3 months attracts termination of the agreement.
- ✓ Performance guarantee is defined as INR 1200000 which is refundable on successful commissioning of the plant.
- ✓ TNREDCL has the right to terminate the agreement with a 30 days prior notice for non- compliance.
- ✓ TNREDCL assures no Financial assistance, however developer is entitled to grant or subsidy as per the policy guidelines of GOI and Government of Telangana.
- ✓ Dispute resolution is defined as amicable by both parties in first instance and in case of no resolution within 30 days the developer may appeal to

Chairman of the Board of Director of TNREDCL whose decision shall be final and binding.

- ✓ Duration is defined as 20 years from COD. The agreement can be further renewed with a prior notice of 90 days and subject to the consent of the TSERC.

4.4 Financial Analysis

4.4.1 Project Cost

As per our estimates the proposed project cost is arrived at Rs. 355.00 Cr which will be funded through a term loan of Rs 247.00 Cr, Promoter Contribution of Rs.108.00 Crores. The project cost comprises of land& Site Development Work, Civil works & building work, plant and machinery, & other Miscellaneous Assets. The soft cost components include Preliminary & Pre operative expenses, Contingency, working capital margin etc. The details are shown as under:

Table 44: Project Cost		
Project cost	Rs. in Crore	Percentage
Hard cost		
Land & Site development	1.42	0.40%
Civil works	85.95	24.21%
Plant & Machinery	181.56	51.15%
Miscellaneous fixed assets	21.50	6.06%
Soft Cost		
Preliminary & Pre operative expenses	16.37	4.61%
Contingency	14.44	4.07%
Interest during Construction	32.24	9.08%
Margin for working capital	1.51	0.43%
Total	355.00	100%

4.4.1.1 Land & Land Development Cost

Company has already purchased 20.00 Acres of land by spending Rs. 1.63 Crore (including Stamp duty) at Yacharam Village & Mandal, Ranga Reddy District, Telangana. The land and land development cost has been estimated at Rs. 1.42 Crore.

The land development activity includes removal of hills, big rocks, bushes; land leveling, digging, filling along with construction of approach road to the extent of 1.8 k.m from highway to project site area is estimated at Rs. 9.50 Crore. The cost of land and site development is Rs. 11.14 crore which comes to ~Rs. 93 lakh/MW. TSERC in orders has considered cost of land at Rs. 5 lakh/MW against Rs. 93 lakh/MW present cost. The details of the land area and its development is as follows

Table 45: Details of Land					
	Area (Acres)	Rs. In Laes	Stamp Duty	Total (Laes)	Rs in Crore
Survey No: 105/7/1/2	1.33	14.6	0.877	15.48	0.15
Survey No: 105/11/1	5.16	43.2	2.593	45.79	0.46
Survey No: 105/8 & 105/8/1	3.23	14.3	1.717	16.02	0.16
Survey No: 105/10/1	4.13	17.3	2.077	19.38	0.19
Survey No: 105/8/3 105/10/4 & 105/11/4	5.14	42.8	2.57	45.37	0.45
Total	20.00	132.2		142.03	1.42

Table 46: Land & Development Cost				
Sl. No.	Particulars	Size of the Land	Rate/Acre (Rs.)	Total cost
1	Own Purchase Land	20.00	815000	1.42
	Total Cost			1.42

4.4.1.2 Civil work & Building Cost

The Proposed civil works is estimated at Rs. 85.95 Crores which includes construction of works like Admin & auxiliary buildings, water treatment plant, Effluent treatment plant, civil & structural works power plant, civil & structural works for MSW-RDF pit etc. This is as per the approved lay out plan. Our Civil Engineer has been verified the proposed layout plan and the area required for the

installation of the Plant & machinery and found that the area is sufficient. He also verified the civil construction cost with ongoing market rate and found that the proposed rate is reasonable and as per market. The detail of the construction cost is shown below:

Table 47: Building & Civil Cost					
Particulars	Sq.Mt	Sq.ft	Rate/Sq.ft	Amount (Cr.)	
Security Room	25	269.00	2000	0.054	
WTP/LAB	200	2152.00	6500	1.399	
RDF Plant	1500	16140.00	6500	10.491	
LTP	659.57	7096.97	5500	3.903	
ITP	979.09	10535.01	5500	5.794	
Switch Yard	1600	17216.00	1900	3.271	
Workshop Store/Workers Block	3096.96	33323.29	2100	6.998	
Weigh Bridge Control Room	30	322.80	2000	0.065	
Boiler 1 and MSW PIT	3304.44	35555.77	5500	19.556	
Gate Security Room	20.31	218.54	2000	0.044	
ACC 1	555.16	5973.52	5500	3.285	
TG 1	365.69	3934.82	5500	2.164	
Total area	12336.22	132737.727		57.024	
Add: Taxes			12%	6.84	
Total				63.87	
		Sq.Mt	Sq.ft	Rate/Sq.ft	Amount (Cr.)
Parking Area (Required)	22%	2713.97	29202.30		
Parking Area (Proposed)	60%	7383.28	79444.09	700	5.56
TOT LOT Area (Required)		7548.55	81222.40		
TOT LOT Area (Proposed)		21931.73	235985.41	700	16.52
Sub Total					22.08
Total Civil Construction Cost					85.95

4.4.1.3 Plant and Machinery

Total cost for Plant and Machinery is estimated at Rs. 181.56 Crores which includes Incinerator and Boiler, Steam Turbine, Alternator and other accessories, Boiler & Turbine-Generator BoP & Auxiliary /Additional units (MSW Processing & Effluent Treatment unit) etc. The cost is arrived based on the Quotation submitted by the company. The correctness of the cost and standing has been verified by our credit analyst with from others similar line of project. The list of plant & machinery is as given in the table below

Table 48: Details of Plant & Machinery	
Details of Plant & Machinery	Amount (Cr.)
Incinerator and Boiler	51.49
Steam Turbine, Alternator and other accessories	13.55
Boiler & Turbine-Generator BoP	74.59
Erection, Testing & Commissioning	10.84
Sub-Total (Power Generation)	150.46
Auxiliary / Additional units (MSW Processing & Effluent Treatment unit)	31.10
Total P&M cost (Cr.)	181.56

The detailed equipment list has been attached in annexure.

4.4.1.4 Miscellaneous Fixed Assets Cost

The miscellaneous fixed assets are inclusive of outdoor switchyard equipment and power evacuation system. The estimate for the Fixed Asset is Rs. 21.50 crore. The details are given below:

Table 49: Miscellaneous Fixed Assets	
Particulars	Amount
Plant side switch yard, line, Bay at S/s	10.00
Grid - Online communication system	5.69
Vehicles - Tractors, Trucks etc.	3.00
Office Furniture and Computers	1.43
DG Set & Misc. Electrical Works	1.38
Total	21.50

4.4.1.5 Preliminary and Preoperative Cost

The preliminary and pre-operative expenses include Start-Up & Miscellaneous Expenditure, trial run expenses etc. Following tables show the details. The P& P cost estimated at Rs. 16.48 Crore. The details are as follows

Table 50: Preliminary & Preoperative Expenses				
S.No	Description			Amount
1	Electricity connection Deposit and other charges			0.17
2	Legal Consultancy Fee & PMC			1.00
3	Loan Processing Fees Documentation	1.00%	247.00	2.47
4	Salaries and other expenses during implementation			1.75
5	Insurance			0.25
6	Trial run expense			1.00
7	Travel and Miscellaneous			0.62
8	Statutory Permission and Clearances			9.11
	Total			16.47

4.4.1.6 Contingency

Contingency expenses are estimated at Rs. 14.64 Crore which includes Land Development, Civil Works Plant & Machinery Cost, and Miscellaneous Assets as under to take care of any escalation in the cost. The details are as follows

Table 51: Contingency Cost			
	Cost	Percentage	Rs in Cr
Land Development	0.00	5.00	0.00
Civil works	85.95	5.00	4.30
Plant & Machinery	181.56	5.00	9.08
Miscellaneous fixed assets	21.50	5.00	1.07
Total	289.01		14.44

4.4.1.7 Interest during Construction (IDC)

IDC (Interest during Construction) has been worked out at Rs. 32.24 Cr for the project for 24 Months period starting from July 2025 to April 2027 at an interest rate of 10.65% P.A.

4.4.1.8 Working Capital Margin (WCM)

The margin money has been estimated as 25% of projected net working capital requirement of Project in the first full year of operation i.e. in 2027-28. For the purpose of estimates, the current assets comprising of receivables of 1 month, O&M expenses of 1 month, maintenance spares requirement equal to 1% of Capital cost and fuel cost for 1 month equivalent to PLF has been assumed. Accordingly Working Capital Gap has been estimated at Rs. 6.01 Crore in FY 2027-28 and Maximum permissible working capital limit has been estimated at **Rs. 4.50 Crore.**

4.4.2 Means of Finance

Following table shows the details of means of finance.

Table 52: Means of Finance			
	Amount in Cr.	Already infused	Percentage
Promoters' contribution	108.00	21.68	30.42%
Term loan II-Bank	247.00		69.58%
Total	355.00	21.68	100%
D/E Including Unsecured Loan	2.29:1.00		

4.4.3 Term Loan Disbursement Schedule

Term loan is projected to be disbursed in 22 monthly installments depending upon the progress of the project. The disbursement is expected to be with in 22 Months starting from July 2025 to April 2027.

Table 53: Term Loan Disbursement Schedule					
	Q1	Q2	Q3	Q4	Total
2025-26	-	45.00	40.00	40.00	125.00
2026-27	25.00	25.00	25.00	25.00	100.00
2027-28	22.00	-	-	-	22.00
Total					247.00

4.4.4 Term Loan Repayment Schedule

Repayment of Term Loan of Rs. 247.00 Crore will be repaid in 144 Months i.e. Starting from June 2028 to May 2040 after 13 Months moratorium starting from May 2027 to May 2028. The Month wise detailed repayment is as follows:

Table 54: Term Loan of Rs. 217.36 Crore Repayment Schedule													
	April	May	June	July	August	September	October	November	December	January	February	March	Total
2028-29	-	-	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
2029-30	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	19,800
2030-31	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2031-32	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2032-33	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2033-34	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2034-35	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2035-36	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2036-37	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2037-38	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2038-39	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2039-40	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	20,872
2040-41	1,739	1,739	-	-	-	-	-	-	-	-	-	-	3,479
Total													247.00

4.4.6 Break Even Analysis

The project is tested in three scenarios for calculation of breakeven point, in addition to the base case. Since the Company is continuously increasing its capacity utilization every year, the breakeven point for sales and cash is gradually increasing year over year. The breakeven point for cash and sales is at an acceptable level throughout the projected period. The level of breakeven sales and cash breakeven are tabulated below:

Table 55: Break Even Analysis														
Year	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Break Even sales	52.54	62.57	60.78	58.78	56.72	54.65	52.87	50.49	48.41	46.32	44.23	42.13	40.03	38.85
Break Even Sales (%)	131.26%	72.16%	70.10%	67.79%	65.41%	63.02%	60.63%	58.24%	55.83%	53.42%	51.01%	48.59%	46.16%	44.81%
Cash Break Even	35.32	41.89	40.02	37.95	35.80	33.65	31.49	29.32	27.15	24.97	22.78	20.58	18.37	17.09
Cash Break Even (%)	88.24%	48.31%	46.16%	43.77%	41.29%	38.81%	36.32%	33.82%	31.31%	28.80%	26.27%	23.73%	21.19%	19.71%
IF DECREASE IN SALES BY 5.00%														
Break Even sales	53.33	63.08	61.29	59.29	57.22	55.15	53.07	50.98	48.89	46.80	44.70	42.59	40.47	39.30
Break Even Sales (%)	139.90%	76.39%	74.23%	71.80%	69.30%	66.78%	64.26%	61.74%	59.21%	56.67%	54.13%	51.57%	49.01%	47.59%
Cash Break Even	39.63	46.68	44.61	42.31	39.92	37.53	35.13	32.72	30.31	27.88	25.44	22.99	20.53	19.11
Cash Break Even (%)	94.05%	51.14%	48.88%	46.35%	43.74%	41.12%	38.49%	35.85%	33.20%	30.55%	27.87%	25.19%	22.50%	20.94%
IF INCREASE IN VARIABLE COST BY 5.00														
Break Even sales	53.20	63.06	61.27	59.27	57.20	55.12	53.04	50.96	48.87	46.77	44.67	42.57	40.45	39.28
Break Even Sales (%)	133.13%	72.72%	70.66%	68.33%	65.97%	63.57%	61.18%	58.77%	56.36%	53.94%	51.52%	49.09%	46.65%	45.30%
Cash Break Even	35.83	42.21	40.34	38.26	36.11	33.94	31.77	29.59	27.41	25.21	23.01	20.79	18.57	17.28
Cash Break Even (%)	89.51%	48.68%	46.53%	44.13%	41.64%	39.15%	36.64%	34.13%	31.61%	29.08%	26.53%	23.98%	21.41%	19.93%
IF RM COST ALONE INCREASE BY 5.00%														
Break Even sales	52.60	62.60	60.81	58.81	56.75	54.68	52.60	50.52	48.44	46.35	44.26	42.16	40.05	38.88
Break Even Sales (%)	131.40%	72.10%	70.13%	67.83%	65.45%	63.06%	60.67%	58.27%	55.87%	53.46%	51.04%	48.62%	46.19%	44.84%
Cash Break Even	35.36	41.91	40.04	37.97	35.82	33.67	31.51	29.34	27.17	24.98	22.79	20.59	18.38	17.10
Cash Break Even (%)	88.34%	48.33%	46.18%	43.79%	41.31%	38.83%	36.34%	33.84%	31.33%	28.81%	26.29%	23.75%	21.20%	19.73%

4.4.8 Risk rating Related Ratios

We have verified the different financial ratios of the Company. It is observed that the financial performance of the Company is stable during the period of repayment of loan.

Table 57: RISK RATING RELATED RATIOS														
	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41

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Table 57: RISK RATING RELATED RATIOS

	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Current Ratio	0.91	1.71	2.52	3.33	4.24	5.20	6.23	7.32	8.47	9.69	10.97	12.31	13.62	14.92
TOL/TNW (times)	2.31	2.64	2.95	3.24	3.52	3.79	4.05	4.31	4.56	4.81	5.06	5.31	5.56	5.81
PAT/Net Sales (%)	24.38	24.10	25.79	27.67	29.61	31.52	33.43	35.32	37.19	39.04	40.88	42.70	44.51	46.31
PBDIT/Interest (times)	1.18	2.48	3.66	4.90	6.20	7.57	8.95	10.35	11.76	13.18	14.61	16.05	17.50	18.95
ROCE (%) (PBDIT/TA)	6.63	17.87	17.51	17.21	16.85	16.42	15.93	15.40	14.83	14.23	13.61	12.99	12.36	11.73
INV+REC /Sales (days)	41	30	30	30	30	30	30	30	30	30	30	30	30	30
Retained profit / Total assets	-2.75	5.75	6.07	6.46	6.83	7.14	7.42	7.65	7.83	7.97	8.07	8.13	8.15	8.15
Net Cash Accrual / TOL	1.41	15.87	17.76	20.35	23.56	27.57	32.74	39.66	49.42	64.22	89.33	141.39	214.24	314.24

Comments:

- Current ratio is estimated at 1.71 in FY 2028-29 i.e. more than the benchmark level of 1.33
- TOL/ TNW is decreasing Year on Year from FY 2027-28 and it is less than 3 as per Bank policy from FY27 onwards by treating unsecured loan as quasi equity.
- PAT is showing increasing trend due to increased revenue & stabilized cost structure.
- PBDIT/Interest is continuously increasing trend from FY 28 onwards due to repayment of loan and increase in margins
- ROCE (%) (PBDIT/TA) is showing increasing trend due to increased revenue & stabilized cost structure.

4.4.9 DSCR

The DSCR (Gross) and DSCR (Net) for the Company for the proposed project is at acceptable level at 1.64 and 2.07 respectively against Minimum Average gross DSCR requirement is 1.25. The project is tested by us in three scenarios and it is found that the Gross DSCR is always above 1.00. In this scenario we may conclude that revenue generation capacity of the Company still being greater than 1.00 times of the debt servicing capacity under stress condition which is acceptable.

Table 58: DSCR in different scenarios

	Details	Gross	Net
1	DSCR In Base case	1.93	2.55
2	Scenario-I (Decrease in Revenue by 5%)	1.79	2.32

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Table 58: DSCR in different scenarios			
	Details	Gross	Net
3	Scenario-II (Increase in Operational cost by 5%)	1.89	2.49
4	Increase in Raw Material cost by 5.00%	1.93	2.54
	Increase in Raw Material cost & Decrease in Sales by 1.00%	1.69	2.50

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Annexure 01: Bank Term Loan Schedule

Term Loan Schedule							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing bal	Average Bal	Interest
		Loan amount	247.00	Crore			
		Interest Rate	10.65%				
		Disbursement	24	Months starting from July 2025 to April 2027			
		Moratorium	12	Months starting from May 2027 to May 2028			
		Repayment Period	144	Months Starting from June 2028 to May 2040			
		Door to Door Period	180	Months starting from July 2025 to May 2040			
			15 Years				
FY 26	April	0.000			0.000	0.000	0.000
	May	0.000			0.000	0.000	0.000
Q1	June	0.000			0.000	0.000	0.000
	July	0.000	45.00		45.000	22.500	0.200
	August	45.000			45.000	45.000	0.399
Q2	September	45.000			45.000	45.000	0.399
	October	45.000	40.00		85.000	65.000	0.577
	November	85.000			85.000	85.000	0.754
Q3	December	85.000			85.000	85.000	0.754
	January	85.000	40.00		125.000	105.000	0.932
	February	125.000			125.000	125.000	1.109
Q4	March	125.000			125.000	125.000	1.109
				0.000			6.235
FY 27	April	125.000	25.00		150.000	137.500	1.220
	May	150.000			150.000	150.000	1.331
Q1	June	150.000			150.000	150.000	1.331
	July	150.000	25.00		175.000	162.500	1.442
	August	175.000			175.000	175.000	1.553
Q2	September	175.000			175.000	175.000	1.553
	October	175.000	25.00		200.000	187.500	1.664
	November	200.000			200.000	200.000	1.775
Q3	December	200.000			200.000	200.000	1.775
	January	200.000	25.00		225.000	212.500	1.886
	February	225.000			225.000	225.000	1.997
Q4	March	225.000			225.000	225.000	1.997
				0.000			19.525
FY 28	April	225.000	22.00		247.000	236.000	2.095
	May	247.000			247.000	247.000	2.192

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Term Loan Schedule							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing bal	Average Bal	Interest
Q1	June	247.000			247.000	247.000	2.192
	July	247.000			247.000	247.000	2.192
	August	247.000			247.000	247.000	2.192
Q2	September	247.000			247.000	247.000	2.192
	October	247.000			247.000	247.000	2.192
	November	247.000			247.000	247.000	2.192
Q3	December	247.000			247.000	247.000	2.192
	January	247.000			247.000	247.000	2.192
	February	247.000			247.000	247.000	2.192
Q4	March	247.000			247.000	247.000	2.192
				0.000			19.729
FY 29	April	247.000			247.000	247.000	2.192
	May	247.000			247.000	247.000	2.192
Q1	June	247.000		1.500	245.500	246.250	2.185
	July	245.500		1.500	244.000	244.750	2.172
	August	244.000		1.500	242.500	243.250	2.159
Q2	September	242.500		1.500	241.000	241.750	2.146
	October	241.000		1.500	239.500	240.250	2.132
	November	239.500		1.500	238.000	238.750	2.119
Q3	December	238.000		1.500	236.500	237.250	2.106
	January	236.500		1.500	235.000	235.750	2.092
	February	235.000		1.500	233.500	234.250	2.079
Q4	March	233.500		1.500	232.000	232.750	2.066
				15.000			25.640
FY 30	April	232.000		1.650	230.350	231.175	2.052
	May	230.350		1.650	228.700	229.525	2.037
Q1	June	228.700		1.650	227.050	227.875	2.022
	July	227.050		1.650	225.400	226.225	2.008
	August	225.400		1.650	223.750	224.575	1.993
Q2	September	223.750		1.650	222.100	222.925	1.978
	October	222.100		1.650	220.450	221.275	1.964
	November	220.450		1.650	218.800	219.625	1.949
Q3	December	218.800		1.650	217.150	217.975	1.935
	January	217.150		1.650	215.500	216.325	1.920
	February	215.500		1.650	213.850	214.675	1.905
Q4	March	213.850		1.650	212.200	213.025	1.891
				19.800			23.654
FY 31	April	212.200		1.739	210.461	211.330	1.876
	May	210.461		1.739	208.721	209.591	1.860

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Term Loan Schedule							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing bal	Average Bal	Interest
Q1	June	208.721		1.739	206.982	207.852	1.845
	July	206.982		1.739	205.243	206.112	1.829
	August	205.243		1.739	203.503	204.373	1.814
Q2	September	203.503		1.739	201.764	202.634	1.798
	October	201.764		1.739	200.025	200.894	1.783
	November	200.025		1.739	198.285	199.155	1.767
Q3	December	198.285		1.739	196.546	197.416	1.752
	January	196.546		1.739	194.807	195.676	1.737
	February	194.807		1.739	193.067	193.937	1.721
Q4	March	193.067		1.739	191.328	192.198	1.706
				20.872			21.488
FY 32	April	191.328		1.739	189.589	190.458	1.690
	May	189.589		1.739	187.849	188.719	1.675
Q1	June	187.849		1.739	186.110	186.980	1.659
	July	186.110		1.739	184.370	185.240	1.644
	August	184.370		1.739	182.631	183.501	1.629
Q2	September	182.631		1.739	180.892	181.761	1.613
	October	180.892		1.739	179.152	180.022	1.598
	November	179.152		1.739	177.413	178.283	1.582
Q3	December	177.413		1.739	175.674	176.543	1.567
	January	175.674		1.739	173.934	174.804	1.551
	February	173.934		1.739	172.195	173.065	1.536
Q4	March	172.195		1.739	170.456	171.325	1.521
				20.872			19.265
FY 33	April	170.456		1.739	168.716	169.586	1.505
	May	168.716		1.739	166.977	167.847	1.490
Q1	June	166.977		1.739	165.238	166.107	1.474
	July	165.238		1.739	163.498	164.368	1.459
	August	163.498		1.739	161.759	162.629	1.443
Q2	September	161.759		1.739	160.020	160.889	1.428
	October	160.020		1.739	158.280	159.150	1.412
	November	158.280		1.739	156.541	157.411	1.397
Q3	December	156.541		1.739	154.802	155.671	1.382
	January	154.802		1.739	153.062	153.932	1.366
	February	153.062		1.739	151.323	152.193	1.351
Q4	March	151.323		1.739	149.584	150.453	1.335
				20.872			17.042
FY 34	April	149.584		1.739	147.844	148.714	1.320
	May	147.844		1.739	146.105	146.975	1.304

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Term Loan Schedule							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing bal	Average Bal	Interest
Q1	June	146.105		1.739	144.366	145.235	1.289
	July	144.366		1.739	142.626	143.496	1.274
	August	142.626		1.739	140.887	141.757	1.258
Q2	September	140.887		1.739	139.148	140.017	1.243
	October	139.148		1.739	137.408	138.278	1.227
	November	137.408		1.739	135.669	136.539	1.212
Q3	December	135.669		1.739	133.930	134.799	1.196
	January	133.930		1.739	132.190	133.060	1.181
	February	132.190		1.739	130.451	131.320	1.165
Q4	March	130.451		1.739	128.711	129.581	1.150
				20.872			14.819
FY 35	April	128.711		1.739	126.972	127.842	1.135
	May	126.972		1.739	125.233	126.102	1.119
Q1	June	125.233		1.739	123.493	124.363	1.104
	July	123.493		1.739	121.754	122.624	1.088
	August	121.754		1.739	120.015	120.884	1.073
Q2	September	120.015		1.739	118.275	119.145	1.057
	October	118.275		1.739	116.536	117.406	1.042
	November	116.536		1.739	114.797	115.666	1.027
Q3	December	114.797		1.739	113.057	113.927	1.011
	January	113.057		1.739	111.318	112.188	0.996
	February	111.318		1.739	109.579	110.448	0.980
Q4	March	109.579		1.739	107.839	108.709	0.965
				20.872			12.596
FY 36	April	107.839		1.739	106.100	106.970	0.949
	May	106.100		1.739	104.361	105.230	0.934
Q1	June	104.361		1.739	102.621	103.491	0.918
	July	102.621		1.739	100.882	101.752	0.903
	August	100.882		1.739	99.143	100.012	0.888
Q2	September	99.143		1.739	97.403	98.273	0.872
	October	97.403		1.739	95.664	96.534	0.857
	November	95.664		1.739	93.925	94.794	0.841
Q3	December	93.925		1.739	92.185	93.055	0.826
	January	92.185		1.739	90.446	91.316	0.810
	February	90.446		1.739	88.707	89.576	0.795
Q4	March	88.707		1.739	86.967	87.837	0.780
				20.872			10.373
FY 37	April	86.967		1.739	85.228	86.098	0.764
	May	85.228		1.739	83.489	84.358	0.749

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By Sri Venkateswara Green Power Projects Limited (SVGPPL)
At Yucharam Village & Mandal, Ranga Reddy District, Telangana*

Term Loan Schedule							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing bal	Average Bal	Interest
Q1	June	83,489		1,739	81,749	82,619	0.733
	July	81,749		1,739	80,010	80,880	0.718
	August	80,010		1,739	78,270	79,140	0.702
Q2	September	78,270		1,739	76,531	77,401	0.687
	October	76,531		1,739	74,792	75,661	0.671
	November	74,792		1,739	73,052	73,922	0.656
Q3	December	73,052		1,739	71,313	72,183	0.641
	January	71,313		1,739	69,574	70,443	0.625
	February	69,574		1,739	67,834	68,704	0.610
Q4	March	67,834		1,739	66,095	66,965	0.594
				20.872			8.151
FY 38	April	66,095		1,739	64,356	65,225	0.579
	May	64,356		1,739	62,616	63,486	0.563
Q1	June	62,616		1,739	60,877	61,747	0.548
	July	60,877		1,739	59,138	60,007	0.533
	August	59,138		1,739	57,398	58,268	0.517
Q2	September	57,398		1,739	55,659	56,529	0.502
	October	55,659		1,739	53,920	54,789	0.486
	November	53,920		1,739	52,180	53,050	0.471
Q3	December	52,180		1,739	50,441	51,311	0.455
	January	50,441		1,739	48,702	49,571	0.440
	February	48,702		1,739	46,962	47,832	0.425
Q4	March	46,962		1,739	45,223	46,093	0.409
				20.872			5.928
FY 39	April	45,223		1,739	43,484	44,353	0.394
	May	43,484		1,739	41,744	42,614	0.378
Q1	June	41,744		1,739	40,005	40,875	0.363
	July	40,005		1,739	38,266	39,135	0.347
	August	38,266		1,739	36,526	37,396	0.332
Q2	September	36,526		1,739	34,787	35,657	0.316
	October	34,787		1,739	33,048	33,917	0.301
	November	33,048		1,739	31,308	32,178	0.286
Q3	December	31,308		1,739	29,569	30,439	0.270
	January	29,569		1,739	27,830	28,699	0.255
	February	27,830		1,739	26,090	26,960	0.239
Q4	March	26,090		1,739	24,351	25,220	0.224
				20.872			3.705
FY 40	April	24,351		1,739	22,611	23,481	0.208
	May	22,611		1,739	20,872	21,742	0.193

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At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Term Loan Schedule							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing bal	Average Bal	Interest
Q1	June	20.872		1.739	19.133	20.002	0.178
	July	19.133		1.739	17.393	18.263	0.162
	August	17.393		1.739	15.654	16.524	0.147
Q2	September	15.654		1.739	13.915	14.784	0.131
	October	13.915		1.739	12.175	13.045	0.116
	November	12.175		1.739	10.436	11.306	0.100
Q3	December	10.436		1.739	8.697	9.566	0.085
	January	8.697		1.739	6.957	7.827	0.069
	February	6.957		1.739	5.218	6.088	0.054
Q4	March	5.218		1.739	3.479	4.348	0.039
				20.872			1.482
FY 41	April	3.479		1.739	1.739	2.609	0.023
	May	1.739		1.739	0.000	0.870	0.008
Q1	June	0.000		0.000	0.000	0.000	0.000
	July	0.000		0.000	0.000	0.000	0.000
	August	0.000		0.000	0.000	0.000	0.000
Q2	September	0.000		0.000	0.000	0.000	0.000
	October	0.000		0.000	0.000	0.000	0.000
	November	0.000		0.000	0.000	0.000	0.000
Q3	December	0.000		0.000	0.000	0.000	0.000
	January	0.000		0.000	0.000	0.000	0.000
	February	0.000		0.000	0.000	0.000	0.000
Q4	March	0.000		0.000	0.000	0.000	0.000
				3.479			0.031
				247.000			209.662

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At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Annexure 02: Operating Statement

Operating Statement														
Particulars	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
GROSS SALES														
Domestic sales	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
Revenue income														
Export Sales														
Total	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
Less excise duty														
Net sales (Item 1 - Item 2)	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
% age rise (+) or fall (-) in net sales compared to previous year (annualised)	#DIV/0!	116.62	-	-	-	-	-	-	-	-	-	-	-	-
Cost of Sales														
Raw materials (including stores and other items used in the process of manufacture)	0.69	0.72	0.74	0.77	0.79	0.82	0.84	0.87	0.89	0.92	0.95	0.97	1.00	1.02
(a) Imported														
(b) Indigenous	0.69	0.72	0.74	0.77	0.79	0.82	0.84	0.87	0.89	0.92	0.95	0.97	1.00	1.02
Other spares	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
(a) Imported														
(b) Indigenous	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Power and fuel														
Direct labour (Factory wages & salary)	1.55	1.58	1.61	1.64	1.68	1.71	1.74	1.78	1.81	1.85	1.89	1.92	1.96	2.00
Other mfg. Expenses	13.79	19.00	19.47	19.94	20.43	20.93	21.44	21.97	22.51	23.06	23.62	24.20	24.80	25.41
Depreciation	13.43	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90
SUB-TOTAL (I TO VI)	29.45	39.20	39.72	40.26	40.80	41.36	41.94	42.52	43.12	43.73	44.36	45.01	45.66	46.34
ADD: Opening stocks-in-Process	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub-total	29.45	39.20	39.72	40.26	40.80	41.36	41.94	42.52	43.12	43.73	44.36	45.01	45.66	46.34
Deduct: Closing stocks-in-process														
Cost of Production	29.45	39.20	39.72	40.26	40.80	41.36	41.94	42.52	43.12	43.73	44.36	45.01	45.66	46.34
Add: Opening stock of finished goods														
SUB-TOTAL	29.45	39.20	39.72	40.26	40.80	41.36	41.94	42.52	43.12	43.73	44.36	45.01	45.66	46.34
Deduct closing stock of finished goods														
SUB-TOTAL (Total cost of Sales)	29.45	39.20	39.72	40.26	40.80	41.36	41.94	42.52	43.12	43.73	44.36	45.01	45.66	46.34
Selling general and administrative														

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Operating Statement														
Particulars	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
expenses	0.20	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
SUB-TOTAL (5-6)	29.65	39.64	40.16	40.69	41.24	41.80	42.37	42.95	43.55	44.17	44.80	45.44	46.10	46.77
Operating profit before interest	10.37	47.07	46.55	46.02	45.47	44.91	44.34	43.75	43.15	42.54	41.91	41.27	40.61	39.94
(3-7)														
Working Capital Interest	0.40	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Term Loan Interest	19.73	25.64	23.65	21.49	19.26	17.04	14.82	12.60	10.37	8.15	5.93	3.70	1.48	0.03
Total Interest	20.13	26.18	24.19	22.02	19.80	17.58	15.35	13.13	10.91	8.69	6.46	4.24	2.02	0.57
Operating profit after interest (8-9)	(9.76)	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
Add other non- operating income														
Misc. income														
Sale of scrap														
Profit on sale of machinery														
Agriculture income														
Sub-total () income)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deduct other non- operating expenses														
P&P expense, including	-	-	-	-	-	-	-	-	-	-	-	-	-	-
all book entries written off														
Loss on sale of assets	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others														
Sub-total () expenses)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net of other non- operating income/expenses	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit before tax/loss (10+1) (or) [	(9.76)	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
Provision for taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prior Years Adjustment (if any) [														
Net profit/loss for the year (12-13)	(9.76)	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
(a) Equity dividend paid-amt														
(Already paid) B.S. provision)														
(b) Dividend Tax Including Surcharge														
(c) Dividend Rate														
(d) Transfer to DTL														
Retained profit (14- 15)	(9.76)	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
Retained profit/Net profit (% age)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Annexure 03: Liability statement

Liability Statement																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
CURRENT LIABILITIES																
Short-term borrowings from																
bank including bills purchased,																
discounted & excess borrowing																
placed on repayment basis)																
(i) From applicant banks	-	-	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
(ii) From other banks																
(iii) Of which BP & BD																
SUB TOTAL	-	-	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Short term borrowings from others																
Sundry Creditors (Trade)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Advance payments from custo-																
mers/depositors from dealers																
Provision for taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dividend payable																
Other statutory liabilities																
(due within one year)																
Deposit/installments of TL	-	-	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	-
IDPGs/Debentures/etc due <12m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IPST Loan - 12 m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other current liabilities & provisions due within 1 Yr)																
Other current liabilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Creditors for capital goods																
Liability for Expenses																
Liabilities for other Expenses																
Liability for Capital Goods																
Expenses Payable																
SUB-TOTAL (B)	-	-	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	-
TOTAL CURRENT LIABILITIES	-	-	19.50	24.30	25.37	25.37	25.37	25.37	25.37	25.37	25.37	25.37	25.37	25.37	7.98	4.50
TERM LIABILITIES																
Debentures (not maturing within one year)																
Preference shares (redeemable after one year)																
Term loans(excluding instalment)	125.00	225.00	232.00	212.20	180.33	170.46	149.58	128.71	107.84	86.97	66.10	45.22	24.35	3.48	0.00	0.00

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Liability Statement																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
payable within one year)																
Sales Tax (Deferred Credits)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(excluding instalments due within one year)																
Long Purchase Loan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Creditors for capital goods																
Other Term Liabilities																
Unsecured Loans from Directors/Inds	-	-	8.00	8.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL TERM LIABILITIES	125.00	225.00	240.00	220.20	201.33	180.46	159.58	158.71	117.84	96.97	76.10	55.22	34.35	13.48	10.00	10.00
TOTAL OUTSIDE LIABILITIES	125.00	225.00	259.50	244.50	226.70	205.83	184.96	164.08	143.21	122.34	101.47	80.60	59.72	38.85	17.98	14.50
NET WORTH																
Ordinary share capital	43.20	97.20	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00
Capital reserve																
General reserve																
Capital Subsidy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Investment Allowance Reserve																
Share Premium																
Surplus (+) or deficit (-) in	-	-	(9.76)	11.14	33.50	57.50	85.17	110.50	139.48	170.11	202.35	236.21	271.66	308.68	347.28	386.65
Profit & Loss Account																
Deferred Tax Liability (DTL)																
NET WORTH	43.20	97.20	98.24	119.14	141.50	165.49	191.16	218.50	247.48	278.10	310.35	344.20	379.65	416.68	455.27	494.64
TOTAL LIABILITIES	168.20	322.20	357.74	363.64	368.20	371.32	376.12	382.58	390.69	400.44	411.81	424.80	439.37	455.53	473.25	509.14

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Annexure 04: Asset Statement

Asset Statement																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Cash and bank balances	(1.59)	(11.37)	13.24	34.26	56.72	76.75	98.45	121.81	146.83	173.48	201.75	231.64	263.12	296.18	330.80	367.60
Fixed Deposits with Banks																
(i) Receivables other than deferred & exports (include bills purchased and discounted by banks)	-	-	4.45	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23
(ii) Export receivables (include bills purchased and discounted by banks)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Installments of deferred receivables (due within one yr.)																
Inventory	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(i) Raw materials (including stores & other items used in the process of manufacture)																
(a) Imported																
(b) Indigenous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Stock-in-Process	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(iii) Finished goods	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(iv) Other Consumable Spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(a) Imported																
(b) Indigenous																
Advance to suppliers of raw materials & stores and spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Advance payment of taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Current assets																
(i) Advances to workers																
(ii) Pre-Paid Expenses																
(iii) Interest Receivable																
(iv) Other Current assets	-	-	-	-	-	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00
(v) TUF concession Receivable (Specify major items)	-	-	-	-	-	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00
TOTAL CURRENT ASSETS	(1.59)	(11.37)	17.68	41.48	67.95	84.97	107.67	132.04	158.05	185.70	214.98	245.87	278.34	312.40	348.03	401.82
FIXED ASSETS																
Gross Block (Land & Building, machinery, work-in-process)	169.79	353.56	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48	353.48
Depreciation to date	-	-	13.43	31.33	49.23	67.13	85.04	102.94	120.84	138.74	156.65	174.55	192.45	210.35	228.26	246.16
NET BLOCK	169.79	353.56	340.05	322.15	304.25	286.35	268.44	250.54	232.64	214.74	196.83	178.93	161.03	143.13	125.22	107.32
OTHER NON-CURRENT ASSETS																
Investment/bonds/debts/advances/ deposits which are not current assets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(i) Investment in subsidiary Co./affiliates																

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Asset Statement																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
b) Other Investments																
(i) Advances to suppliers of capital goods & contractors	-	-														
(ii) Deferred receivables (maturity exceeding one year)																
(iv) Others (a) Definers > 6 months																
(b) Security Deposits																
c) Project Surplus																
Non-consumables stores & spares																
Other non-current assets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OTHER NON-CURR. ASSETS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Intangible assets (patents, goodwill, prefin. expenses, bad/doubtful exp. not provided for etc)																
TOTAL ASSETS (34+37+41+42)	168.20	322.20	357.74	363.64	368.20	371.32	376.12	382.58	390.69	400.44	411.81	424.80	439.37	455.53	473.25	509.14

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Annexure 05: Financial Indicators

Financial Indicators															
Particulars	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Domestic Sales (Gross)	0.00	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
Export Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Sales	0.00	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
% rise/fall (+) to net sales	#DIV/0!	#DIV/0!	116.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Operating Profit	0.00	-9.76	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.57
Profit Before tax	0.00	-9.76	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.57
PBT/ Sales (%)	#DIV/0!	-24.38	24.10	25.79	27.67	29.61	31.52	33.43	35.32	37.19	39.04	40.88	42.70	44.51	45.41
Profit After Tax	0.00	-9.76	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.57
Cash Accrual	0.00	3.67	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.13	51.76	53.35	54.93	56.50	57.27
PBDIT	-	23.80	64.97	64.48	65.92	67.37	68.81	69.24	70.66	71.06	72.44	73.81	75.17	76.51	77.84
Paid Up Capital	97.20	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00
TNW	97.20	98.24	119.14	141.50	165.49	191.16	218.50	247.48	278.10	310.35	344.20	379.65	416.68	455.27	494.64
Adjusted TNW	97.20	98.24	119.14	141.50	165.49	191.16	218.50	247.48	278.10	310.35	344.20	379.65	416.68	455.27	494.64
TOL/TNW (times)	2.31	2.64	2.05	1.60	1.24	0.97	0.75	0.58	0.44	0.33	0.25	0.16	0.09	0.04	0.03
Adjusted TOL/TNW	2.31	2.64	2.05	1.60	1.24	0.97	0.75	0.58	0.44	0.33	0.25	0.16	0.09	0.04	0.03
NWC	-13.37	-1.82	17.18	38.58	59.60	82.30	106.07	132.68	160.33	189.61	220.49	252.97	287.03	340.05	397.32
Current Ratio	#DIV/0!	0.91	1.71	2.52	3.35	4.24	5.20	6.23	7.32	8.47	9.69	10.97	12.31	13.62	14.92
TTL/TNW	2.31	2.64	1.85	1.42	1.09	0.83	0.63	0.48	0.35	0.25	0.16	0.09	0.03	0.02	0.02
Current ratio without TL repay	#DIV/0!	3.93	9.22	14.21	18.89	23.95	29.34	35.12	41.27	47.77	54.64	61.85	69.42	77.34	85.29
TOL/TNW (including TSL as	2.31	2.37	1.86	1.47	1.12	0.87	0.67	0.52	0.39	0.29	0.20	0.13	0.07	0.02	0.01
Quasi Equity)															
Other Ratios															
Operating Cost/sales %	#DIV/0!	124.4	75.0	74.2	72.3	70.4	68.5	66.6	64.7	62.8	61.0	59.1	57.3	55.5	54.0
Net Sales/TTA (times)	0.00	0.11	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.18	0.17
PBDIT	0.00	23.80	64.97	64.48	65.92	67.37	68.81	69.24	70.66	71.06	72.44	73.81	75.17	76.51	77.84
EFFICIENCY RATIOS															
Net Sales/ Total Tangible	0.00	0.13	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.18	0.17
Assets (times)															
PBT/ Total Tangible Assets (%)	0.00	-2.73	5.75	6.97	6.46	6.83	7.14	7.42	7.65	7.83	7.97	8.07	8.13	8.15	7.73
Operating Cost to sales (%)	#DIV/0!	124.38	75.00	74.21	72.33	70.39	68.48	66.57	64.68	62.81	60.96	59.12	57.30	55.49	54.00
Bank Finance/ Cr Assets (%)	0.00	29.45	10.85	7.04	5.30	4.38	3.41	2.85	2.42	2.09	1.83	1.62	1.44	1.29	1.12
Inventory + Receivables to net	#DIV/0!	40.56	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42
Sales (days)															
Figures in <i>Italics</i> represents estimates taken at the time of the last renewal															
PBDIT	0.00	23.80	64.97	64.48	65.92	67.37	68.81	69.24	70.66	71.06	72.44	73.81	75.17	76.51	77.84
RISK RATING RELATED RATIOS															
Current Ratio	#DIV/0!	0.91	1.71	2.52	3.35	4.24	5.20	6.23	7.32	8.47	9.69	10.97	12.31	13.62	14.92
TOL/TNW (times)	2.31	2.64	2.05	1.60	1.24	0.97	0.75	0.58	0.44	0.33	0.25	0.16	0.09	0.04	0.03
PA/T/Net Sales (%)	#DIV/0!	-24.38	24.10	25.79	27.67	29.61	31.52	33.43	35.32	37.19	39.04	40.88	42.70	44.51	45.41
PBDIT/Interest (times)	#DIV/0!	1.18	2.48	2.66	2.90	3.20	3.57	4.05	4.70	5.60	6.96	9.25	13.95	29.00	102.12
ROCE (%) (PBDIT/TTA)	0.00	6.65	17.87	17.51	17.21	16.85	16.42	15.93	15.40	14.83	14.23	13.61	12.99	12.36	11.36

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Financial Indicators															
Particulars	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
DSV (REC)/Sales (days)	60/01	41	50	50	50	50	50	50	50	50	50	50	50	50	50
Retained profit/Total assets	0.00	-2.73	-5.75	-6.07	-6.46	-6.83	-7.14	-7.42	-7.65	-7.83	-7.97	-8.07	-8.13	-8.15	-7.77
Net Cash Accrual / TOL	0.00	-1.41	-15.87	-17.76	-20.35	-23.56	-27.57	-32.74	-39.66	-49.42	-64.22	-89.33	-141.39	-114.34	-394.98

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Annexure 06: ABF Statement

ABF Statement														
Particulars	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Total CA	17.68	41.38	63.95	84.97	107.67	132.04	158.05	185.70	214.98	245.87	278.34	312.40	348.03	401.82
Other CL (Except Bank Borrow)	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	0.00
Working Capital Gap	2.68	21.68	43.08	64.10	86.80	111.17	137.18	164.83	194.11	224.99	257.47	291.53	344.55	401.82
Net Working Capital (Act/Pro)	-1.82	17.18	38.58	59.60	82.30	106.67	132.68	160.33	189.61	220.49	252.97	287.03	340.05	397.32
Assessed Bank Finance	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
NWC to TCA (%)	-10.27	41.42	60.32	70.14	76.44	80.78	83.95	86.34	88.20	89.68	90.88	91.88	97.71	98.88
Bank Finance to TCA %	25.45	10.85	7.04	5.30	4.18	3.41	2.85	2.42	2.09	1.83	1.62	1.44	1.29	1.12
S Cr To TCA (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other CL to TCA (%)	84.82	47.73	32.64	24.56	19.38	15.81	13.21	11.24	9.71	8.49	7.50	6.68	1.00	0.00
Inv. To Net sales (days)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rec. to gross sales (days)	40.56	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42
S Cr To purchases (days)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Annexure 07: Fund Flow Statement

Fund Flow Statement																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
SOURCES																
Net Profit (After Tax)	0.00	0.00	0.00	20.00	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.88	35.45	37.03	38.59	39.17
Depreciation	0.00	0.00	13.43	17.00	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90
Increase in Capital	43.20	54.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Increase in FI Incl public deposits	125.00	100.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Decrease in																
i.) Fixed Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ii.) Other Non- Current Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	168.20	154.00	39.23	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27
USES																
Net Loss	0.00	0.00	9.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec in Term Liab incl. Pub. Dep.	0.00	0.00	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	0.00
Increase in																
i.) Fixed Assets	169.79	163.78	19.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ii.) Other Non current assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dividend Payment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Others																
Total	169.79	163.78	44.68	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	0.00
(Summary)																
Long Term Surplus/Deficit	-1.59	-9.78	-5.45	19.00	19.39	21.02	22.70	24.36	26.02	27.65	29.28	30.88	32.48	34.06	35.62	37.27
Increase/decrease in Curr. Assets	-1.59	-9.78	29.05	23.80	23.46	21.02	22.70	24.36	26.02	27.65	29.28	30.88	32.48	34.06	35.62	37.27
Inc./Dec. in CL other than BB	0.00	0.00	15.00	4.80	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17.39	-5.48
Inc./Dec. in WC Gap	-1.59	-9.78	14.05	19.00	21.39	21.02	22.70	24.36	26.02	27.65	29.28	30.88	32.48	34.06	35.62	37.27
Net Surplus (+) / Deficit (-)	0.00	0.00	-19.50	0.00	-2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inc./Dec. in Bank Borrowings	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNDS FLOW STATEMENT																
Long Term Sources	168.20	154.00	39.23	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27
Long Term Uses	169.79	163.78	44.68	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	0.00
Surplus/Deficit	-1.59	-9.78	-5.45	19.00	19.39	21.02	22.70	24.36	26.02	27.65	29.28	30.88	32.48	34.06	35.62	37.27
Movement of TNW (Corporate)																
Opening balance	0.00	43.20	97.20	98.24	119.14	141.30	165.49	191.16	218.50	247.48	278.10	310.55	344.20	379.65	416.68	455.27
Add																
(-) Profit/(-) Loss after Tax	0.00	0.00	-9.76	20.00	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.17
(-) Increase in Capital	43.20	54.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(-) Inc. (-) Inc in Intangible Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(-) Inc. (-) (-) Dec in Reserves																

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Fund Flow Statement																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
v. Adjust prior year expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Less																
Div. Paid/Incl Div Tax/ Withdrawals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TNW	43.20	97.20	98.24	119.14	141.50	165.49	191.16	218.50	247.48	278.10	310.35	344.20	379.65	416.68	455.27	494.64

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Annexure 08: Break Even Analysis

Break Even Point														
Year	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Sales	40.03	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71
Raw Material	0.69	0.72	0.74	0.77	0.79	0.82	0.84	0.87	0.89	0.92	0.95	0.97	1.00	1.02
Spare and consumables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Power and Fuel	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Direct Labour	1.55	1.58	1.61	1.64	1.68	1.71	1.74	1.78	1.81	1.85	1.89	1.92	1.96	2.00
Other Manufacturing Expenses	13.74	10.00	19.47	19.94	20.43	20.93	21.44	21.97	22.51	23.06	23.62	24.20	24.80	25.41
Depreciation	13.43	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90
Selling General & Admin Expen	0.20	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Interest - WC	0.40	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Interest - Term Loan	19.73	25.64	23.65	21.49	19.26	17.04	14.82	12.60	10.37	8.15	5.93	3.70	1.48	0.03
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Difference in stock	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	49.79	65.81	64.35	62.71	61.04	59.37	57.72	56.09	54.46	52.85	51.26	49.68	48.12	47.34
Fixed Cost	40.97	54.16	52.42	50.51	48.55	46.59	44.64	42.70	40.76	38.83	36.91	35.00	33.09	31.96
Variable Cost	8.81	11.65	11.93	12.21	12.49	12.78	13.08	13.39	13.70	14.02	14.35	14.68	15.02	15.37
Contribution	31.22	75.06	74.78	74.50	74.22	73.92	73.63	73.32	73.01	72.69	72.36	72.03	71.68	71.33
Operating Profit	(9.76)	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
Profit	(9.76)	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59	39.37
Break Even sales	52.54	62.57	60.78	58.78	56.72	54.65	52.57	50.49	48.41	46.32	44.23	42.13	40.03	38.85
Break Even Sales (%)	131.26%	72.16%	70.10%	67.79%	65.41%	63.02%	60.63%	58.24%	55.83%	53.42%	51.01%	48.59%	46.16%	44.81%
Cash Break Even	33.32	41.89	40.02	37.95	35.80	33.65	31.40	29.32	27.15	24.97	22.78	20.58	18.37	17.09
Cash Break Even (%)	88.24%	48.31%	46.16%	43.77%	41.29%	38.81%	36.32%	33.82%	31.31%	28.80%	26.27%	23.73%	21.19%	19.71%
IF DECREASE IN SALES BY 5.00%														
Contribution	29.22	70.72	70.45	70.17	69.88	69.59	69.29	68.98	68.67	68.35	68.03	67.69	67.35	67.00
Fixed Cost	40.97	54.16	52.42	50.51	48.55	46.59	44.64	42.70	40.76	38.83	36.91	35.00	33.09	31.96
Variable Cost	8.81	11.65	11.93	12.21	12.49	12.78	13.08	13.39	13.70	14.02	14.35	14.68	15.02	15.37
Break Even sales	53.33	63.08	61.29	59.29	57.22	55.15	53.07	50.98	48.89	46.80	44.70	42.59	40.47	39.30
Break Even Sales (%)	139.90%	76.39%	74.23%	71.80%	69.30%	66.78%	64.26%	61.74%	59.21%	56.67%	54.13%	51.57%	49.01%	47.50%
Cash Break Even	39.63	46.68	44.61	42.31	39.92	37.53	35.13	32.72	30.31	27.88	25.44	22.99	20.53	19.11
Cash Break Even (%)	94.05%	51.14%	48.88%	46.35%	43.74%	41.12%	38.49%	35.85%	33.20%	30.55%	27.87%	25.19%	22.50%	20.94%
IF INCREASE IN VARIABLE COST BY 5.00														
Contribution	40.78	74.47	74.10	73.89	73.59	73.29	72.97	72.65	72.32	71.99	71.64	71.29	70.93	70.57
Fixed Cost	40.97	54.16	52.42	50.51	48.55	46.59	44.64	42.70	40.76	38.83	36.91	35.00	33.09	31.96

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Break Even Point													
Year	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40
Variable Cost	9.25	12.24	12.52	12.82	13.12	13.42	13.74	14.06	14.39	14.72	15.07	15.42	15.78
Break Even sales	53.29	63.06	61.27	59.27	57.20	55.12	53.04	50.96	48.87	46.77	44.67	42.57	40.45
Break Even Sales (%)	133.13%	72.72%	70.66%	68.35%	65.97%	63.57%	61.18%	58.77%	56.36%	53.94%	51.52%	49.09%	46.65%
Cash Break Even	35.83	42.21	40.34	38.26	36.11	33.94	31.77	29.59	27.41	25.21	23.01	20.79	18.57
Cash Break Even (%)	89.51%	48.68%	46.53%	44.13%	41.64%	39.15%	36.64%	34.13%	31.61%	29.08%	26.53%	23.98%	21.41%
IF RM COST ALONE INCREASE BY 5.00%													
Contribution	31.18	25.02	24.75	24.46	24.18	23.88	23.58	23.28	22.96	22.64	22.31	21.98	21.63
Fixed Cost	40.97	54.16	52.42	50.51	48.55	46.59	44.64	42.70	40.76	38.83	36.91	35.00	33.09
Variable Cost	8.85	11.69	11.96	12.24	12.53	12.82	13.12	13.43	13.75	14.07	14.40	14.73	15.07
Break Even sales	52.60	62.60	60.81	58.81	56.75	54.68	52.60	50.52	48.44	46.35	44.26	42.16	40.05
Break Even Sales (%)	131.40%	72.19%	70.13%	67.83%	65.45%	63.06%	60.67%	58.27%	55.87%	53.46%	51.04%	48.62%	46.19%
Cash Break Even	35.36	41.91	40.04	37.97	35.82	33.67	31.51	29.34	27.17	24.98	22.79	20.59	18.38
Cash Break Even (%)	88.34%	48.33%	46.18%	43.70%	41.31%	38.83%	36.34%	33.84%	31.33%	28.81%	26.29%	23.75%	21.20%

Annexure 09: Sensitivity DSCR Analysis

Sensitivity Analysis														
Particulars	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	Total
Decrease in Revenue by 5.00%														
Net Sales	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	1127.21
Term Loan Interest	25.64	23.65	21.49	19.26	17.04	14.82	12.60	10.37	8.15	5.93	3.70	1.48	0.03	164.17
Decrease in sales by	82.37	82.37	82.37	82.37	82.37	82.37	82.37	82.37	82.37	82.37	82.37	82.37	82.37	1070.85
Difference	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	56.36
Cash Accrual	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27	629.14
Adj Cash Accrual	34.46	35.93	37.56	39.24	40.90	42.55	44.19	45.81	47.42	49.02	50.60	52.16	52.94	572.78
T.L.Repayment	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	247.00
Net DSCR	2.30	1.81	1.80	1.88	1.96	2.04	2.12	2.19	2.27	2.35	2.42	2.50	15.22	2.32
Gross DSCR	1.48	1.37	1.39	1.46	1.53	1.61	1.70	1.80	1.91	2.05	2.21	2.40	15.09	1.79
Increase in Operating cost by 5.00%														
Net Sales	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	1127.21
Operating Cost	19.72	20.21	20.71	21.22	21.75	22.29	22.84	23.40	23.98	24.57	25.17	25.79	26.43	298.07
Operational cost increase by	20.70	21.22	21.74	22.28	22.83	23.40	23.98	24.57	25.18	25.80	26.43	27.08	27.75	312.97
Difference	0.99	1.01	1.04	1.06	1.09	1.11	1.14	1.17	1.20	1.23	1.26	1.29	1.32	14.90
Cash Accruals	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27	629.14
Adj Cash Accrual	37.81	39.25	40.86	42.51	44.15	45.77	47.38	48.98	50.56	52.12	53.67	55.21	55.95	614.23
T.L.Repayment	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	247.00
Net DSCR	2.52	1.98	1.96	2.04	2.12	2.19	2.27	2.35	2.42	2.50	2.57	2.64	16.08	2.49
Gross DSCR	1.56	1.45	1.47	1.54	1.61	1.70	1.79	1.90	2.02	2.17	2.33	2.54	15.95	1.89
Increase in Raw Material cost by 5.00%														
Net Sales	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	1127.21
Raw Material Cost	0.72	0.74	0.77	0.79	0.82	0.84	0.87	0.89	0.92	0.95	0.97	1.00	1.02	11.29
RM cost increase by	0.75	0.78	0.80	0.83	0.86	0.89	0.91	0.94	0.97	0.99	1.02	1.05	1.07	11.86
Difference	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.56
Cash Accruals	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27	629.14
Adj Cash Accrual	38.76	40.23	41.86	43.53	45.20	46.85	48.48	50.10	51.71	53.30	54.88	56.45	57.22	628.57
T.L.Repayment	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	247.00
Net DSCR	2.58	2.03	2.01	2.09	2.17	2.24	2.32	2.40	2.48	2.55	2.63	2.70	16.45	2.54
Gross DSCR	1.58	1.47	1.50	1.56	1.64	1.73	1.82	1.94	2.06	2.21	2.38	2.59	16.31	1.93
Increase in Raw Material cost & Decrease in Sales by 1.00%														
Net Sales	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	1127.21
Decrease in sales by	85.84	85.84	85.84	85.84	85.84	85.84	85.84	85.84	85.84	85.84	85.84	85.84	85.84	1115.93
Difference	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	11.27

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Sensitivity Analysis														
Particulars	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	Total
R M Cost	0.72	0.74	0.77	0.79	0.82	0.84	0.87	0.89	0.92	0.95	0.97	1.00	1.02	11.29
RM cost increase by	0.72	0.75	0.77	0.80	0.83	0.85	0.88	0.90	0.93	0.95	0.98	1.01	1.03	11.41
Difference	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11
Cash Accruals	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27	629.14
Adj. Cash Accruals	37.93	39.39	41.02	42.70	44.36	46.01	47.65	49.27	50.88	52.47	54.05	55.62	56.40	617.75
T.L.Repayment	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	247.00
Net DSCR	2.53	1.99	1.97	2.05	2.13	2.20	2.28	2.36	2.44	2.51	2.59	2.66	16.21	2.50
Gross DSCR	1.40	1.44	1.48	1.53	1.58	1.64	1.70	1.77	1.84	1.92	2.00	2.09	2.13	1.69

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Annexure 10: DSCR Analysis

DSCR Statement														
Particulars	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	Total
Net Sales	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	86.71	1127.21
Sources														
Cash-Accrual	38.80	40.26	41.90	43.57	45.24	46.89	48.52	50.15	51.76	53.35	54.93	56.50	57.27	629.14
Capital subsidy														0.00
TL Interest	25.64	23.65	21.49	19.26	17.04	14.82	12.60	10.37	8.15	5.93	3.70	1.48	0.03	164.17
Total Sources	64.44	63.92	63.38	62.84	62.28	61.71	61.12	60.52	59.91	59.28	58.64	57.98	57.30	793.31
Obligations														
TL Instalment	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	247.00
Total Repayment obligation	15.00	19.80	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	20.87	3.48	247.00
TL Interest	25.64	23.65	21.49	19.26	17.04	14.82	12.60	10.37	8.15	5.93	3.70	1.48	0.03	164.17
Total	40.64	43.45	42.36	40.14	37.91	35.69	33.47	31.25	29.02	26.80	24.58	22.35	3.51	411.17
Gross DSCR	1.59	1.47	1.50	1.57	1.64	1.73	1.83	1.94	2.06	2.21	2.39	2.59	16.33	1.93
Net DSCR	2.59	2.03	2.01	2.09	2.17	2.25	2.32	2.40	2.48	2.56	2.63	2.71	16.46	2.55

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By Sri Venkateswara Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Annexure 11: Margin of Security

Margin of Security																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
WDV of Fixed Assets	169.79	333.56	340.05	322.15	304.25	286.35	268.44	250.54	232.64	214.74	196.83	178.93	161.03	143.13	125.22	107.32
TL Outstanding	125.00	225.00	247.00	232.00	212.20	191.33	170.46	149.58	128.71	107.84	86.97	66.10	45.22	24.35	3.48	0.00
Margin	44.79	108.56	93.05	90.15	92.05	95.02	97.99	100.96	103.93	106.90	109.87	112.84	115.81	118.78	121.75	124.72
Security Margin (%)	26.38	32.55	27.36	27.98	30.25	33.18	36.50	40.30	44.67	49.78	55.82	63.06	71.92	82.99	97.22	100.00
Average Security Margin (%)		51.25														

*DPR on Setting up a 14 MW Waste to Energy Power Plant based on Municipal Solid Waste
By SV Green Power Projects Limited (SVGPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Annexure 12: IRR

IRR																
Particulars	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41
Cash outflow																
Capital employed	168.20	154.00	32.80													
Total (a)	168.20	154.00	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Available Cash Flow																
PAT	0.00	0.00	0.00	-9.76	20.90	22.36	23.99	25.67	27.33	28.98	30.62	32.25	33.85	35.45	37.03	38.59
Finance Cost	0.00	0.00	0.00	20.13	26.18	24.19	22.02	19.80	17.58	15.35	13.13	10.91	8.69	6.46	4.24	2.02
Depreciation	0.00	0.00	0.00	13.43	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90
Loss/ Increase in Capex																
Salvage Value 10% of Capital Cost																107.32
Free cash flow	0.00	0.00	0.00	23.80	64.97	64.43	63.92	63.37	62.81	62.24	61.66	61.06	60.44	59.81	59.17	165.83
Net Cash inflow	-168.20	-154.00	-32.80	23.80	64.97	64.43	63.92	63.37	62.81	62.24	61.66	61.06	60.44	59.81	59.17	165.83
IRR (after tax)	11.14%															

ANNEXURE-II

MSW SUPPLY AGREEMENT

BETWEEN

Greater Hyderabad Municipal Corporation (GHMC)

AND

Hyderabad Integrated MSW Limited (HIMSW)

AND

M/s. Sri Venkateswara Green Power Projects Limited,
(Formerly known as M/s Sri Venkateswara Hydro Power projects limited)
(SVGPPPL)



తెలంగాణ తేలంగానా TELANGANA

Trans Id: 250621154214363110
Date: 21 JUN 2025, 03:45 PM
Purchased By:
K. VENKATESWARA REDDY
S/o. SITA REDDY
R/o HYDERABAD
For Whom
SRI VENKATESWARA GREEN POWER PROJECTS LTD

BP
Karpur
HKKURIA KALPANA
LICENSED STAMP VENDOR
Lic. No: 15-10-010/2019
Ren. No: 15-10-072/2024
PLOT NO 1188 SRI SWAMY
AYYAPPA CO-OP HOUSING
SOCIETY MADHAPUR
SERLINGAMPALLY MANDAL
RANGAREDDY DIST
PIN 500006722

SUPPLY AGREEMENT

THIS SUPPLY AGREEMENT (Agreement) was entered and agreed on this 24th day of June, 2025 ('Effective date') at Hyderabad, Telangana.

BETWEEN:

Greater Hyderabad Municipal Corporation (GHMC)

AND

Hyderabad Integrated MSW Limited (HIMSW)

(A Company incorporated under the Companies Act, 1956 having its registered office at Level 11B, Aurobindo Galaxy, Hyderabad Knowledge City, Hitech City Road, Hyderabad-500081, India represented by its Authorized person hereinafter referred to as "HIMSW")


Commissioner
Greater Hyderabad Municipal Corporation





OFFICE OF THE
DISTRICT REGISTRAR
RANGA REDDY DISTRICT
26 APR 2025
STAMPS DEPOT



AND

Sri Venkateswara Green Power Projects Limited (SVGPPL)

(Formerly Known as Sri Venkateswara Hydro Green Power Projects Limited, incorporated under the Companies Act, 1956 having its registered office 5-9-22 303, 3rd Floor, My home sarovar plaza, Secretariat road, Saifabad, Hyderabad-500063 represented by its Authorised person, Hereinafter referred to as "SVGPPL").

1. The Ministry of Environment Forest and Climate Change (MOEFCC) Government of India (GOI) made Rules called the Municipal Solid Waste (Management and Handling) Rules 2000 & Solid Waste Management Rules 2016 (SWM Rules- 2016) by exercising powers conferred under Sections 3, 6 and 25 of the Environment (Protection) Act 1986, (Act 29 of 1986) which makes it mandatory for every Municipality/ Municipal Corporation to implement a Scientific Solid Waste Management System for processing and disposal of Solid Waste generated within its territorial area. In processing of MSW, suitable technology or combination of technologies shall be adopted. The inert material obtained subsequent to processing of MSW ought to be disposed in sanitary landfills.
2. As per SWM Rules 2016, the Concessioneing Authority is responsible for collection, storage, segregation, transportation, processing and disposal of Municipal Solid Waste generated within its jurisdiction.
3. In order to develop and implement a viable and environmentally sustainable integrated MSW management system in Hyderabad, GHMC selected SV Green duly following due process and the government issued G O Ms No 413 MA&UD dated 11.06.2008, Govt. of AP. SV Green entered into an agreement dated 10th November, 2010 with GHMC to that effect, as per which SV Green is entitled to receive 700 tons of MSW per day generated/ collected within the territorial limits of GHMC for establishing 12 MW power plant. Subsequently, No Objection was accorded by GHMC vide Lr no SWM/0031/2015/EE-SWM/02 dated 09.06.2025 for enhancement of the capacity of the Waste to Energy Plant to 14 MW.
4. Simultaneously, GHMC contemplated an Integrated Municipal Solid Waste Management project for collection, transportation, processing and disposal of


Commissioner
Greater Hyderabad Municipal Corporation



MSW as per MSW (Management & Handling) Rules 2000 for which the Government issued G.O.Ms. 859 MA&UD (f) dt.20.12.2008 under Public-Private Partnership mode. Subsequently, after following due tendering process, M/s Ramky Enviro Engineers Ltd (now M/s Re-Sustainability Ltd) emerged as successful bidder and a Concession Agreement dated 21.02.2009 was entered between Concessioneing Authority and M/s Ramky Enviro Engineers Ltd hereinafter referred to as IMSWM Project's Concession Agreement as per approval vide G.O. Ms. No 136 MA&UD (f) dated 19.02.2009. Novation Agreement was entered on 01.02.2012 between the Concessioneing Authority, M/s Ramky Enviro Engineers (REEL) Ltd and M/s Hyderabad Integrated MSW (HiMSW) Ltd with M/s HiMSW being the Special Purpose Vehicle formed by REEL to undertake and perform all its obligation and exercise the rights of the Concessionaire under the Concession Agreement for the IMSWM Project.

5. This agreement is being made to supply and transport 700 tons of MSW per day, for free of cost to the SV Green's Yacharam WTE power project site.

OBJECTIVE:

Supply and transport of 700 tons of MSW per day by HIMSW to SVGPPL's Yacharam Project site, where SVGPPL plans to establish a SWM facility to process and handle 700 TPD of MSW.

The Parties hereto enter into this Supply Agreement under these presents to record the terms and conditions.

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

ARTICLE 1: DEFINITIONS AND INTERPRETATION

- 1.1 **Definitions:** In this agreement, the following words and expressions shall, unless repugnant to the context or meaning thereof, have the meaning hereinafter respectively ascribed to them hereunder:

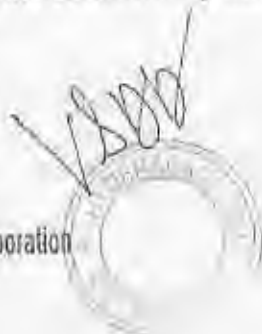
- "Agreement" shall mean this Agreement.
- "TGPCB" shall mean the Telangana Pollution Control Board.


Commissioner
Greater Hyderabad Municipal Corporation



- **"Applicable Laws"** shall mean all Laws in force and effect as of the date hereof including SWM Rules, Environment Laws and Amendments or re-enactments which may be promulgated or brought into force and effect hereafter in Telangana and in India.
- **"Authorization"** means any approval, consent, exemption, permit, registration or waiver, and any renewal or variation of any of them, howsoever described, necessary for the Project facilities.
- **"Concession Agreement"** The agreement between GHMC and Ramky Enviro Engineers Limited, dated 21.02.2009, and Amendment Agreement between GHMC and Hyderabad Integrated MSW Limited.
- **"Hazardous Waste"** shall have the meaning as defined under the Hazardous Wastes (Management and Handling) Rules, 1989 and as amended thereto.
- **"Material Adverse Effect"** shall mean a material adverse effect on the ability of the parties to exercise any of its rights or to perform/discharge any of its duties/obligations under and in accordance with the provisions of this agreement and/or the legality, validity, binding nature or enforceability of this agreement.
- **"Material Breach"** shall mean a breach by either Party of any of its obligations under this agreement which has or is likely to have a Material Adverse Effect on the Project and which such Party shall have failed to cure within seven days of notice.
- **"MSW Rules"** shall mean the Solid Wastes Management Rules 2016 and includes any amendments thereto or any regulations made there under or any revised Rules superseding the existing Rules.
- **"Municipal Solid Waste" or "MSW"** shall have the meaning ascribed to it in the SWM Rules, 2016 and any amendments thereto or any revised Rules superseding the existing Rules.
- **"Parties"** shall mean the parties to this Agreement and "Party" shall mean either of them, as the context may admit or require.


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 Greater Hyderabad Municipal Corporation



- **"Project":** shall mean the processing, Waste-to-Energy and other infrastructure as may be required to properly manage the 700 TPD of MSW with all applicable environmental rules and norms, to be established by SVGPPL at the designated location at Yacharam.
- **"Project Site":** shall mean the location at Yacharam where SVGPPL plans to undertake the development of the Project.
- **"Tipping Fee"** shall mean the amounts payable by GHMC to HIMSW as per Concession Agreement dated 21.02.2009.

1.2 Interpretation: in this agreement, unless the context otherwise requires,

- i) any reference to a statutory provision shall include such provision as is from time to time modified or re-enacted or consolidated so far as such modification or re-enactment or consolidation applies to, or is capable of being applied to any transactions entered into hereunder;
- ii) references to applicable law shall include the Laws, Acts, Ordinances, Rules, Regulations, Notifications, Guidelines or Byelaws which have the force of law;
- iii) the words importing singular shall include plural and vice versa, and words denoting natural persons shall include Partnership, firms, Companies, Corporations, joint ventures, Trusts, Associations, Organizations or other entities
- iv) the headings are for convenience of reference only and shall not be used in, and shall not affect, the construction or interpretation of this Agreement;
- v) the words "include" and "including" are to be construed without limitation;
- vi) any reference to day, month or year shall mean a reference to a calendar day, calendar month or calendar year respectively;
- vii) the schedules to this Agreement form an integral part of this agreement as though they were expressly set out in the body of this Agreement;


Commissioner
 Greater Hyderabad Municipal Corporation



- viii) any reference at any time to any agreement, deed, instrument, license or document of any description shall be construed as reference to that agreement, deed, instrument, license or other document as amended, varied, supplemented, modified or suspended at the time of such reference;
- ix) references to recitals, articles, sub-articles, clauses, or schedules in this agreement shall, except where the context otherwise requires, be deemed to be references to recitals, articles, sub-articles, clauses and schedules of or to this agreement;
- x) any agreement, consent, approval, authorization, notice, communication, information or report required under or pursuant to this agreement from or by any party shall be valid and effectual only if it is in writing under the hands of duly authorized representative of such party in this behalf and not otherwise;
- xi) any reference to any period commencing "from" a specified day or date and "till" or "until" a specified day or date shall include both such days or dates;

ARTICLE 2:- CONDITIONS PRECEDENT

- i. SVGPPL shall comply with the Solid Waste Management Rules, 2016 and other applicable environmental regulations and standards as may be applicable from time to time, in line with the practices adopted by HiMSW and ensure that no environmental rules are flouted while handling the MSW.
- ii. SVGPPL shall establish the Project and all associated infrastructure, achieving COD within 36 months from date of signing of this Agreement with HiMSW and any extended time thereof as to be decided by GHMC on valid grounds.

ARTICLE 3: TERM OF THE AGREEMENT

- i. This Agreement shall be effective from the date of execution hereof and shall continue to be valid in line with HiMSW's Concession Agreement ("Term") or such other extended term as may be mutually agreed between them and upon such extension; the extended period shall constitute the Term.


Commissioner
Greater Hyderabad Municipal Corporation



ARTICLE 4 HIMSW's OBLIGATIONS

- i. HiMSW shall carry out the collection and transportation of 700 metric tons of Raw MSW /mixed MSW directly from the transfer stations or from its designated areas within GHMC limits.
- ii. M/s HiMSW shall endeavor to ensure that the non-conforming waste such as hazardous waste, bio medical waste, construction & demolition waste, silt/sand /residues from storm water drains, silt from sewerage, silt/sludge/residues/rejects from sewage treatment plants/effluent treatment plants, human fecal matter/ sludge or silt from septic tanks, small & big dead animal /carcass/offal's /cadavers, bulky waste, ash, is not supplied with MSW to the SVGPPL's WTE project site at Yacharam
- iii. The quantity of MSW to be supplied by HIMSW shall be limited to 700 TPD.
- iv. In case M/s HiMSW fails to transport the required quantity of MSW/semi processed MSW/RDF per day, GHMC shall have the right to arrange alternative transportation to SVGPPL's site.

ARTICLE 5 : SVGPPL's OBLIGATIONS

- i. SVGPPL hereby undertakes to accept 700 tonnes of MSW supplied to their Yacharam Project Site.
- ii. SVGPPL is liable to process and dispose of supplied MSW to its Project responsibly and scientifically, including proper handling of the rejects, leachate and other residues.
- iii. SVGPPL shall not be entitled to any tipping fee from GHMC in respect of fulfilling the obligations arising out of this agreement.
- iv. Unloading charges, manpower cost and any other applicable costs for delivering the fresh MSW inside site premises of SVGPPL shall be solely borne by SVGPPL.
- v. All the statutory permits and approvals have to be obtained by the SVGPPL for processing and handling the MSW at site.


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vi. **SVGPPL** undertakes to allow the vehicles of **HIMSW**, which comes to deliver the **MSW** in their **Yacharam Project Site**.

vii. While processing the **MSW**, **SVGPPL** shall follow the **SWM Rules 2016** and other key environmental rules and guidelines in line with best practices as adopted by **HIMSW** and ensure that no environmental rules are flouted.

viii. If **SVGPPL** fails to establish the facility within the given time frame, **HIMSW** shall stand relieved of their obligations and any adverse environmental or other impact arising due to the waste supplied at **SVGPPL** site will not be attributable to **HIMSW**. Any damages or adverse obligations that are put on **HIMSW** will be borne by **SVGPPL**, including but not limited to development of infrastructure that arises due to the failure of **SVGPPL** in discharging their obligations, and **GHMC** shall not hold **HIMSW** responsible for any failure by **SVGPPL**.

ARTICLE 6 : GHMC's OBLIGATION

- i. **GHMC** will not be liable to pay **HIMSW** any tipping fee for the Processing & Disposal component for 700 TPD supplied to **SVGPPL**.
- ii. **GHMC** shall pay applicable collection and transportation tipping fee to **HIMSW** for the 700 TPD in accordance with their Concession Agreement.
- iii. **GHMC** shall not pay any tipping fee to **SVGPPL** for the processing and handling of **MSW** including disposal of rejects, as the case may be. Any additional charges will be borne by **SVGPPL**. Further, a royalty of 25 rupees/MT (metric tonne) will be paid to **GHMC** by **SVGPPL**.
- iv. If **GHMC** or **SVGPPL** engage **HIMSW** for additional services like processing or disposal of **MSW**, such applicable charges will be paid by the relevant Party to **HIMSW** in line with **HIMSW's** Concession Agreement.


Commissioner
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ARTICLE 7: TERMINATION

- i. This Agreement supersedes all previous written or oral understanding between the Parties in relation to the subject matter of this Agreement.
- ii. Neither Party shall be entitled to terminate this Agreement during the Term, without the prior written consent of the GHMC.
- iii. In the event of failure of discharge of obligations by **SVGPPPL**, GHMC shall decide on termination of this agreement and the decision of GHMC will be binding on all parties.

ARTICLE 8: DISPUTE RESOLUTION

- i. Save where expressly stated to the contrary in this agreement, any dispute, difference or controversy of whatever nature between the parties, howsoever arising under, out of or in relation to this agreement, (the "Dispute") shall in the first instance be attempted to be resolved amicably in accordance with the procedure set forth in below para.
- ii. Either Party may require such dispute to be referred to the authorized personnel, as communicated by each of the parties, of the HIMS and SVGPPPL for the time being, for amicable settlement. Upon such reference, the parties shall meet at the earliest mutual convenience and in any event within 15 (fifteen) days of such reference to discuss and attempt to amicably resolve the Dispute. If the dispute is not amicably settled within 15 (fifteen) days of such meeting between the two, the same shall be referred to the Commissioner, GHMC and the decision of the Commissioner, GHMC shall be final and binding on all parties.

ARTICLE 9: MISCELLANEOUS

I. Governing Law and Jurisdiction

This agreement shall be governed by the laws of India. The Courts at Hyderabad shall have jurisdiction over all matters arising out of or in relation to this agreement.


Commissioner
Greater Hyderabad Municipal Corporation



ii. **Waiver**

Waiver by any party of any default by the other party in the observance and performance of any provision of or obligations under this agreement:

- a. shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions or obligations under this agreement;
- b. shall not be effective unless it is in writing and executed by a duly authorized representative of such party; and
- c. shall not affect the validity or enforceability of this agreement in any manner.

Neither the failure by either party to insist on any occasion upon the performance of the terms, conditions and provisions of this agreement or any obligation hereunder nor time or other indulgence granted by a party to the other party shall be treated or deemed as waiver/breach of any terms, conditions or provisions of this agreement.

iii. **Amendments**

This agreement and the schedules together constitute a complete and exclusive understanding of the terms of the agreement between the parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless agreed to by all the Parties hereto and evidenced in writing.

iv. **Notices**

Unless otherwise stated, notices to be given under this agreement including but not limited to a notice of waiver of any term, breach of any term of this agreement and termination of this agreement, shall be in writing and shall be given by hand delivery, recognized national couriers, mail, telex or facsimile transmission and delivered or transmitted to the parties at their respective addresses set forth in the description above

v. **Severability**

Each and every obligation under this agreement shall be treated as a separate obligation and shall be severally enforceable as such and in


Commissioner
Greater Hyderabad Municipal Corporation



the event of any obligation or obligations being or becoming unenforceable in whole or in part. To the extent that any provision or provisions of this agreement are unenforceable they shall be deemed to be deleted from this agreement, and any such deletion shall not affect the enforceability of the remainder of this agreement not so deleted provided the fundamental terms of the agreement are not altered.

If any provision of this agreement is held to be invalid or unenforceable but would be valid or enforceable if some part of the provision were deleted, or the period of the obligation reduced in time, or the range of activities or area covered, reduced in scope, the provision in question shall apply with the minimum modifications necessary to make it valid and enforceable.

Further, the parties may negotiate in good faith with a view to agreeing upon one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable. Provided failure to agree upon any such provisions shall not be subject to dispute resolution under this Agreement or otherwise.

VI Confidentiality

Each party shall keep confidential all non-public information relating to this agreement, including any such information received from any other party in the course of negotiation or conclusion of this agreement, provided, however, that the receiving party may disclose such information:

- a. To its officers, directors, employees, advisors and consultants who need to know such information and as may be required by any competent legal authority;
- b. That has come into the public domain through no breach of this clause by the disclosing party.


Commissioner
Greater Hyderabad Municipal Corporation



- c. To the extent that such information is required to be disclosed by any applicable law or required to be disclosed to any Governmental authority to whose jurisdiction the party making disclosure is subject or with whose instructions it is customary to comply;

vii. **Counterparts**

This agreement may be executed in three counterparts, each of which when executed and delivered shall constitute an original of this agreement but shall together constitute one and only the agreement.

In witness whereof the parties have executed and delivered this agreement as of the date first above written.

Greater Hyderabad Municipal Corporation.

(GHMC)

Signature:

24/6/25
Commissioner

Name of the Authorized Person: Greater Hyderabad Municipal Corporation

Common Seal of the GHMC:

Hyderabad Integrated MSW Limited.

(Re Sustainability Limited)

Signature:

VBS
Name of the Authorized Person:

(Vamsuram S Venkatesan)

Date of Board Resolution:

Common Seal of the HIMSW:

SVGPPPL(Sri Venkateswara Green Power Projects Limited)

Signature:

EOMorendy
Name of the Authorized Person:



Date of Board Resolution:

Common Seal of the SVGPPL:

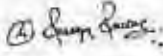
Witness:

Signature:

Name of the Witness:  R. SREENIVASH REDDY

Address of the Witness Executive Engineer, SWH, GTHC

Witness:

Signature: 

Name of the Witness: CH. PANDU RANGA REDDY

Address of the Witness HIMSA LTD, Ramky House
Rajbhawan Road, Somajiguda
HYDERABAD - 500082

Witness:

Signature:

Name of the Witness:  CH. SATYA PRASAD.

Address of the Witness ADMIN. MANAGER,
SVGREEN POWER PROJECTS LTD

ANNEXURE - III

GOVERNMENT OF ANDHRA PRADESH

ABSTRACT

Integrated Municipal Solid Waste Management - Establishment of Integrated Municipal Solid Waste management facility with 12 MW Waste to Energy (WTE) Plant based on Municipal Solid Waste (MSW) by M/s Sri Venkateswara Hydro Power Projects Limited - Recommendation of the State Level Official Committee - Accepted - Orders - Issued.

MUNICIPAL ADMINISTRATION AND URBAN DEVELOPMENT (I2) DEPARTMENT

G.O. Ms.No. 413

Dated: 11.06.2008.

Read the following:-

1. G.O. Rt.No.122 MA, Municipal Administration and Urban Development (F2) Department Dated: 15.02.2001.
2. G.O. Ms. No, 655 MA, Municipal Administration and Urban Development (J2) Department Dated: 05.07.2005.
3. From the Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad Lr.No.147/AC(H&S)/GHMC/2008, Dated: 01.03.2008.
4. Minutes of the State Level official Committee meeting held on 26.03.2008.
5. From the Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad Lr.No.147/AC(H&S)/GHMC/2008, Dated: 09.05.2008.

ORDER :

The Technical Committee constituted in the G.O. first read above, has recommended the Waste to Energy proposal based on Municipal Solid Waste of M/s Sri Venkateswara Hydro Power Projects Limited. The State Level Official Committee in its meeting held on 26.03.2008 has cleared the proposal of M/s Sri Venkateswara Hydro Power Projects Limited for establishment of Integrated Municipal Solid Waste management facility with 12 MW Power Plant at Arutal Village, Manchal Mandal, Ranga Reddy District, with the Municipal Solid Waste of Greater Hyderabad Municipal Corporation subject to certain conditions.

2. The Commissioner, Greater Hyderabad Municipal Corporation in the letter fourth read above has reported that in compliance of the minutes of the SLOC, M/s Sri Venkateswara Hydro Power Projects Limited has submitted a representation for supply of 1000 MTs of MSW for establishment of Integrated Municipal Solid Waste management facility with 12 MW Power Plant and also accepted the conditions as fixed in the SLOC meeting. The Greater Hyderabad Municipal Corporation has decided to supply of 700 MTs of MSW per day to M/s Sri Venkateswara Hydro Power Project Limited on par with the M/s RDF Power Projects towards establishment of Integrated Municipal Solid Waste management facility with 12 MW Power Plant. The Standing Committee of GHMC in its Resolution No.30, Dated:03.05.2008 have accepted the proposal. The General Body of the GHMC in its Resolution No.07, Dated:03.05.2008 has considered the resolution of the Standing Committee and recommended to the Government subject to obtaining the clearances for the Project from other Departments and to enter in to MoU with the GHMC. The Commissioner, GHMC has therefore requested the Govt. to accord permission to M/s Sri Venkateswara Hydro Power Projects Ltd. for establishment of Integrated Municipal Solid Waste management facility with 12 MW Power Plant and entering into MoU with GHMC.

3. Government after careful consideration of the matter here by accord permission to establish Integrated Municipal Solid Waste management facility with 12 MW Power Plant by M/s Sri Venkateswara Hydro Power Projects Limited at Arutal Village, Manchal Mandal, Rangareddy District with the following terms and conditions:

- i. The Project Company shall adhere to the Municipal Solid Waste (Management and Handling) Rules, 2000 and A.P. Pollution Control Board guidelines during the construction and operational phase and obtain necessary licenses from the concerned agencies as required under rules.
- ii. The Greater Hyderabad Municipal Corporation will deliver the MSW to the Plant site on free of cost.
- iii. The Greater Hyderabad Municipal Corporation will supply 700 MTs of MSW per day.
- iv. The Project Proponent shall pay a royalty of Rs.25/- per Metric Ton of MSW (un-segregated) supplied by the GHMC.
- v. The Entrepreneur must show the ownership of the land at the places cleared by the APPCB and also should process all the components of garbage including inert in accordance with MSW Rules, 2000 including deposition in sanitary landfill wherever required.
- vi. The Entrepreneur should obtain the Environmental clearance for establishment of Integrated Municipal Solid Waste management facility from the APPCB/GOI a.t.c., which are mandatory as per MSW (M&H) Rules, 2000 at their own cost.
- vii. Sale of Power and the output from the above facility is the sole responsibility of the entrepreneur.
- viii. The Project Proponent shall deliver their processed rejects to the common SLF set up by GHMC at their own cost up to a distance not exceeding 20 Km from their plant.
- ix. GHMC will not collect any charges from the agency for disposing the processed rejects at their common SLF.
- x. The Entrepreneur shall obtain financial closure within 90 days from the date of signing of power purchase agreement.
- xi. The Entrepreneur shall establish and commission the plant within 18 months from the date of financial closure.
- xii. The entrepreneur would be responsible for design, engineering, finance, construction and operation of the facilities.
- xiii. Mechanism for weighing garbage received from the Greater Hyderabad Municipal Corporation should be provided by the entrepreneur.

- xiv. The State Level Official committee shall decide the tipping fee and relevant conditions for integrated facility after power purchase agreement concluded by the entrepreneur.
 - xv. The entrepreneur shall furnish Rs.5.00 lakh per MW as refundable performance guarantee to the GHMC after entering Power purchase Agreement, repayable partly at the time of financial closure and partly at the time of kick-off of the Project.
 - xvi. The penalties in case of short fall in Municipal Solid Waste supply by GHMC and short fall in processing of Municipal solid Waste by Entrepreneur shall be charged per tonn basis with escalation every year and applicable to both GHMC and Entrepreneur subject to force majeure conditions.
4. The Commissioner, Greater Hyderabad Municipal Corporation shall take immediate action for implementing the above Municipal Solid Waste project.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

Dr. C.V.S.K. SARMA

EX-OFFICIO PRINCIPAL SECRETARY TO GOVERNMENT

To

The Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad
M/s Sri Venkateswara Hydro Power Projects Limited, Hyderabad.

Copy to:

The Commissioner & Director of Municipal Administration,
Andhra Pradesh, Hyderabad.
The Energy Department.
The Environment, Forests, Science and Technology Department.
The Engineer-in-Chief (Public Health), A.C. Guards, Hyderabad.
The Managing Director, Non Conventional Energy Development
Corporation of Andhra Pradesh, Pisag Complex, Nampally, Hyderabad.
The Managing Director, A.P. TRANSCO, Vidhyut Soudha,
Khairatabad, Hyderabad.
Member Secretary, A.P. Pollution Control Board, Paryavaran Bhavan,
A-III, Industrial Estate, Sanathnagar, Hyderabad.
The Director General of Environment Protection,
Training and Research Institute, Gachibowli, R.R. District.
The P.S. to M (MA).
The P.S. to Principal Secretary to Govt., MA & UD Dept.
The P.S. to Secretary to Govt., (P), MA & UD Dept.
The P.A. to Joint Secretary to Govt.
SF/ SC.

//FORWARDED:: BY ORDER//

SECTION OFFICER

ANNEXURE-IV

CONCESSION AGREEMENT

BETWEEN

Greater Hyderabad Municipal Corporation (Formerly known as
Municipal Corporation of Hyderabad)
Hyderabad. Andhra Pradesh.

(Concessioneing Authority)

AND

M/s.Sri Venkateswara Green Power Projects Limited ,
(Formerly known as M/s Sri Venkateswara Hydro Power projects
limited)

Hyderabad. Andhra Pradesh.

(Concessionaire)

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V. VENKESHAM AM 207344

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170430 K.V.S.N. Reddy

C. G. COLONY, CHIMALGIRI,

SECUNDER AB - 500012

W/o. D/o Vee Reddy

W/o SRI VENKATESWARA Green Power Projects

CONCESSION AGREEMENT

THIS CONCESSION AGREEMENT (Agreement) made, entered and agreed on this 10th day of November, 2010 at Hyderabad, Andhra Pradesh.

BETWEEN:

Greater Hyderabad Municipal Corporation
(Formerly known as Municipal Corporation of Hyderabad)
Hyderabad, Andhra Pradesh

Hereinafter referred to as "Concessional Authority" (CA) which expression shall mean and include its successors, assigns, representatives, members, agents of the FIRST PART

AND

M/s. Sri Venkateswara Green Power Projects Limited

(Formerly known as M/s Sri Venkateswara Hydro Power Projects Limited, incorporated under the Companies Act, 1956 on the 7th day of September, 1999 and got certificate of commencement of business on the 2nd day of July 2000, having its registered office at 83-2-3/1, Sangeta Venkata Reddy Street, J.N. Road, Mantina Gardens, Rajahmundry 533 136, East Godavari District, A.P. and having its Corporate office: 2-2-647/72/G/22, Hardik Kallash 301, SBI Colony, Bagh Amberpet, Hyderabad - 500 013

represented by its Authorized person

Herein referred to as "Concessionaire" which expression unless repugnant to the context includes its Directors, Representatives, Successors and assigns of the other part.



WHERE AS

1. The Ministry of Environment and Forest (MOEF) Government of India (GOI) made Rules called the Municipal Solid Waste (Management and Handling) Rules 2000 (MSW Rules) by exercising powers conferred under Sections 3,6and 25 of the Environment (Protection) Act 1986, (Act 29 of 1986) which makes it mandatory for every Municipality / Municipal Corporation to implement scientific solid waste management system for process and disposal of solid waste generated within its territorial area. In processing of MSW suitable technology or combination of technologies shall be adopted, The non- biodegradable inert waste not suitable for biological or recycling process ought to be sent for landfill and biodegradable waste for composting or vermi-composting or producing refuse derived fuel ,or fuel pelletization or energy generation .
2. The C.A is responsible for processing and disposal of Municipal Solid Waste generated within the territorial Municipal area as per MSW (M&H) Rules 2000
3. The CA desired the establishment of an MSW processing facilities within its territorial Jurisdiction called tenders form interested bidders for concept, design, fund, own, operate and maintain (CDFBOOM) basis on notification no.147/H&S/M.C.H /2004 dated 20-9-2004.
4. The First Party through the Commissioner of Municipal corporation of Hyderabad, Government of Andhra Pradesh invited proposals from interested bidders for and on behalf of C.A. for implementing the MSW Management Projects and in response thereto the GHMC received proposals from the bidders including the Concessionaire for implementing projects.
5. The Commissioner of Municipal Corporation of Hyderabad evaluated the aforesaid proposals and forwarded to the State Government for consideration. The Government has accepted the proposals submitted by the Concessionaire and issued Orders Vide G.O.Ms.No. 413 dated 11th June, 2008, MA&UD, Govt. of A.P permitting the Concessionaire to establish MSW Processing Projects, based on MSW.
6. The Concessionaire has entered into a .agreement no.____dated:22/10/2010 with C.A thereby the Concessionaire entitled to receive MSW generated / collected within the territorial limits of C.A for establishing 12 MW power plant .



7. In pursuance of Concession granted by C.A for supply of 700 tons per day MSW free of cost to the project site. The Concessionaire accepted to establish, operate and maintain Non-conventional Energy Project, i.e. Municipal Solid Waste based 12 MW Power Plant at Survey No.122, 123, 124 & 124 at Yacharam Village & Mandal, Near Ibrahimpatnam, R.R. District or any other suitable site with its own funds to process, recycle convert MSW into power by removing hazardous and recyclable material after obtaining necessary permission from Pollution Control Board/ State Government.

The parties hereto are required to enter into this Concession Agreement under these presents to record the terms, conditions and covenants of concessions.

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

ARTICLE 1: DEFINITIONS AND INTERPRETATION

1.1 Definitions: In this agreement, the following words and expressions shall, unless repugnant to the context or meaning thereof, have the meaning hereinafter respectively ascribed to them hereunder:

- i) **"Agreement"** shall mean this Concession Agreement and includes any amendments hereto made in accordance with the provisions hereof further includes the Offtake Agreement entered between parties.
- ii) **"APPCB"** shall mean the Andhra Pradesh Pollution Control Board.
- iii) **"Applicable Laws"** shall mean all Laws in force in India and effect as of the date hereof including MSW Rules, Environment Laws and Amendments or re-enactments which may be promulgated or brought into force and effect hereafter in Andhra Pradesh and in India including Judgements, decrees, Injunctions, Writs or orders of any court including Court of Record as may be in force and effect during subsistence of this Agreement.
- iv) **"Applicable Permits"** shall mean all clearances, licenses, registrations, permits, authorizations, consents, sanctions and approvals required to be obtained or maintained by the Concessionaire under all Applicable Laws, in connection with the CDFBOOM of the Project facilities during the subsistence of this agreement.



- v) **"Appointed Date"** shall mean the date of this agreement.
- vi) **"Assured Waste Quantity"** shall mean the assured quantity of MSW required to be supplied by CA in accordance with the agreement herein.
- vii) **"Authorization"** means any approval, consent, exemption, permit, registration or waiver, and any renewal or variation of any of them, howsoever described, necessary to CDFBOOM for the integrated MSW Project facilities.
- viii) **"Authorised Person"** shall mean for Concessioneing Authority is Municipal Commissioner or any other officer authorized by the Commissioner . And for Concessionaire Managing Director or any director by Board Resolution of the Company.
- ix) **"Urban Local Area"** means the whole of the urban area falling within the jurisdiction of the CA as the Government of Andhra Pradesh may by notification specify from time to time;
- x) **" CA"** shall mean the Authorised Officer duly representing the **Greater Hyderabad Municipal Corporation**
- xi) **"Concession"** shall have the meaning ascribed thereto in Article 2.1.
- xii) **"Concessionaire"** shall mean **M/s.Sri Venkateswara green Power Projects Limited** and includes its successors and permitted assigns expressly approved and granted concession in writing by CA.
- xiii) **COD or commercial operations date** means the date notified by the concessionaire as the date on which the plant is ready to commence commercial operations after successfully completing the testing.
- xiv) **"Construction Works"** shall mean all works and things required to be constructed by the Concessionaire and forming part of the MSW processing facilities
- xv) **"Drawings"** shall mean all of the drawings, designs, calculations and documents pertaining to the Project in accordance with the Development Specifications and Operations Specifications and the applicable Laws.



- xvi) **"Emergency"** shall mean a condition or situation that is likely to endanger the safety of the individuals on or about the project facilities or which poses an immediate threat of material damage to any of the project facilities.
- xvii) **"Encumbrance"** shall mean any encumbrance such as mortgage, charge, pledge, lien, hypothecation, security interest, assignment, privilege or priority of any kind having the effect of security or other such obligations and shall include without limitation any designation of loss payees or beneficiaries or any similar arrangement under any insurance policy pertaining to the project, physical encumbrances, claims for any amounts due on account of taxes, cesses, electricity, water and other utility charges and encroachments on the project facilities.
- xviii) **"Environmental Laws"** means all Laws pertaining to the protection of natural resources, the environment, the health and safety of the public, according to Environment (Protection) Act, 1986, The Air (Prevention and Control of Pollution) Act, 1981, The Water (Prevention and Control of Pollution) Act, 1974 and any other Central, State or Local law, regulation, rule, ordinance or order that govern:
- the existence, cleanup and/or remedy of contamination on real property;
 - the emission or discharge of hazardous substances into the environment;
 - the control of hazardous substances; or
 - the use, generation, transport, treatment, storage, disposal, removal or recovery of hazardous substances, including building materials;
- xix) **"Expiry Date"** shall mean the date on which earlier of the two events occurs:
- Expiry of the agreement by efflux of time at the end of 30 (thirty) years, from COD, or on expiry of renewed agreement period, if renewed as per the terms, or
 - Early termination of the agreement
- xx) **"Financing Documents"** shall mean collectively the documents evidencing Lenders' commitment for financing the project.
- xxi) **"Financial Year"** shall mean the period commencing from April 1 of any given year to March 31 of the succeeding year.



- xxii) **"Financing"** means the aggregate amounts provided by way of loan, lease finance, or otherwise to the Concessionaire by the Banks, Financial Institutions or others for the development, establishment, design, finance, upgrading, implementation, construction, operation and maintenance of the project facilities.
- xxiii) **"Force Majeure" or "Force Majeure Event"** shall mean an act, event, condition or occurrence as specified in Article 8.
- xxiv) **"GoI"** shall mean the Government of India.
- xxv) **"GoAP"** shall mean the Government of Andhra Pradesh.
- xxvi) **"Good Industry Practice"** shall mean the exercise of that degree of skill, diligence, prudence and foresight in compliance with the duties, undertakings and obligations under this agreement which would reasonably and ordinarily be expected of a skilled and an experienced person engaged in the implementation, operation and maintenance or supervision or monitoring thereof of a work similar to that of the Project.
- xxvii) **"Government Agency"** means Central /state /government or any department, Commission, Board, Authority, Instrumentality or Agency under the local control of central or state government or any other local Municipal bodies or institutions having jurisdiction over all or any part of the project or the performance of all or any of the services or obligations of the concessionaire under or pursuant to this Agreement.
- xxviii) **"Hazardous Waste"** shall have the meaning as defined under the Hazardous Wastes (Management and Handling) Rules, 1989 and as amended thereto.
- xxix) **"Implementation Period"** shall mean the period from the effective date to COD.
- xxx) **"Processing"** shall mean the process by which MSW is transformed into electricity, new or recycled products including processes like all manner of composting, production of Refuse Derived Fuel (RDF), Pellets and material recycling.
- xxxi) **"Lenders"** shall mean financial institutions and banks who have provided funds to the Concessionaire for financing the project or any part of the project.



- xxxii) **"MSW Receiving Point"** means the delivery location indicated to the Concessionaire by the CA for collection of MSW.
- xxxiii) **"MSW Rules"** shall mean the Municipal Solid Wastes (Management and Handling) Rules, 2000 and includes any amendments thereto or any regulations made there under.
- xxxiv) **"Municipal Solid Waste" or "MSW"** shall have the meaning ascribed to it in the MSW Rules, 2000 and supplied by CA.
- xxxv) **"Operations Period"** shall mean the period commencing from COD and ending with the expiry date.
- xxxvi) **"Parties"** shall mean the parties to this Agreement and "Party" shall mean either of them, as the context may admit or require.
- xxxvii) **"Project sites"** shall mean the sites approved by CA for establishing project by the Concessionaire
- xxxviii) **"Pelletisation"** shall have the same meaning mentioned in MSW Rules 2000,
- xxxix) **"Recycle"** shall have the same meaning mentioned in MSW Rules 2000.
- xi) **"Rupees" or "INR"** refers to the lawful currency of the Republic of India,
- xli) **"Sanitary Landfill"** shall mean the area within the landfill facilities, designed with protective measures against pollution of ground water, surface water and air by dust, windblown litter, bad odour, fire hazard, bird menace, pests or rodents, greenhouse gas emissions, slope instability and erosion, and utilised for disposal of landfill waste.
- xlii) **"Scheduled Project Completion Date"** shall mean the completion of the project facilities which shall be within 18 months from the date of financial closure.
- xliii) **"Security Deposit"** shall mean the guarantee for performance of its obligations to be provided by the Concessionaire in accordance with Article 5.1.



xliv) **"Sites or Sites"** means the land or lands at outskirts of the City belongs to Concessionaire for the purpose of the project.

xlv) **"Tax"** shall mean all taxes payable by the Concessionaire by whatever name called for the establishment, operation and management of the project and includes all taxes, fees, cesses, levies that may be payable by the Concessionaire under all applicable laws.

xlvi) **"Tests"** shall mean the tests to be carried out by Concessionaire in accordance with the Development Specifications or the Operations Specifications and provisions of Article 5.4.2.

xlvii) **"Tipping Fee"** shall mean the amounts payable by the Concessionaire for land filling of rejects as decided by the state level official committee.

xlviii) **"Waste Processing Facilities"** shall mean the project facilities for Processing the MSW to be designed, engineered and constructed, in accordance with the development specifications.

xlix) **"Workers"** shall means workers and labour engaged by the Concessionaire for transportation, landfill ,composting producing RDF ,Bio-gas,and generating energy purpose.

1.2 Interpretation: in this agreement, unless the context otherwise requires,

- i) any reference to a statutory provision shall include such provision as is from time to time modified or re-enacted or consolidated so far as such modification or re-enactment or consolidation applies to, or is capable of being applied to any transactions entered into hereunder;
- ii) references to applicable law shall include the Laws, Acts, Ordinances, Rules, Regulations, Notifications, Guidelines or Bylaws which have the force of law;
- iii) the words importing singular shall include plural and vice versa, and words denoting natural persons shall include Partnership, firms, Companies, Corporations, joint ventures, Trusts, Associations, Organizations or other entities
- iv) the headings are for convenience of reference only and shall not be used in, and shall not affect, the construction or interpretation of this Agreement;



- v) the words "include" and "including" are to be construed without limitation;
- vi) any reference to day, month or year shall mean a reference to a calendar day, calendar month or calendar year respectively;
- vii) the schedules to this Agreement form an integral part of this agreement as though they were expressly set out in the body of this Agreement;
- viii) any reference at any time to any agreement, deed, instrument, license or document of any description shall be construed as reference to that agreement, deed, instrument, license or other document as amended, varied, supplemented, modified or suspended at the time of such reference;
- ix) references to recitals, articles, sub-articles, clauses, or schedules in this agreement shall, except where the context otherwise requires, be deemed to be references to recitals, articles, sub-articles, clauses and schedules of or to this agreement;
- x) any agreement, consent, approval, authorization, notice, communication, information or report required under or pursuant to this agreement from or by any party shall be valid and effectual only if it is in writing under the hands of duly authorized representative of such party in this behalf and not otherwise;
- xi) any reference to any period commencing "from" a specified day or date and "till" or "until" a specified day or date shall include both such days or dates;

ARTICLE 2

CONCESSION

2.1 The Concession

Subject to and in accordance with the terms and conditions set forth in this agreement, the Concessioneing Authority hereby grants, permits and authorizes the Concessionaire, "the Concession",

- a) to investigate, study, conceptualise, design, engineer, procure, finance, construct, own, operate and maintain the project facilities at its own cost, and



- b) to perform, exercise and enjoy the duties / obligations, the rights, powers, benefits, privileges, authorizations and entitlements as set forth in this agreement
- c) to receive 700 tonnes of MSW generated within territory of CA free of cost to their project site.
- d) the concessionaire shall pay a royalty of Rs.25/- per metric ton of MSW supplied by the C.A to their project site
- e) since GHMC has already entered into agreement with M/s Ramky for integrated solid waste management project and entire solid waste transporting vehicles are to be transferred to M/sRamky on as it is where it is condition. The transport of MSW to the venkateswara Green Power Projects from Jawahar Nagar or any other site or transfer station designated by the CA will be done by M/S Ramky and this has to be dealt by a separate tri-partiate agreement between M/s Ramky, GHMC and venkateswara Green power projects. In the event of any disputes , the decision of the CA will be final and binding on all parties.

2.2 Concession Period

The quantity of assured supply of waste shall be 700 MTs of Municipal Solid Waste net per day for a period of 30 years

The Concession hereby granted is for the period commencing from the COD and ending on the Expiry Date ("the concession period") during which the Concessionaire is authorized to own, operate and maintain the project in accordance with the provisions hereof.

Provided that in the event of termination, the concession period shall mean and be limited to the period commencing from the COD and ending with the termination date.

2.3 Acceptance of Concession

In consideration of the exclusive rights, privileges, benefits and claims conferred and vested upon the Concessionaire, and other good and valuable consideration expressed herein, the Concessionaire hereby accepts the Concession Agreement and agrees and undertakes to dutifully perform / discharge all of its duties, liabilities and obligations in accordance with the provisions hereof.



ARTICLE 3: PROJECT SITES

3.1 Approval of project sites

CA shall within ninety days from the appointed date approve the places located at the outskirts of the Town/City belongs to the Concessionaire for purpose of implementing the project as per the recommendation from the AP pollution control board.

3.3 Applicable Permits

The Concessionaire shall obtain and maintain all the applicable permits, licenses, approvals, permissions, sanctions etc., in such sequence as is consistent with the requirements of the project during implementation, operation, maintenance and management. The Concessionaire shall be solely responsible and shall always be in compliance with the terms and conditions subject to which the applicable permits have been issued.

ARTICLE 4: PROJECT ENGINEER

4.1 Nomination of Project Engineer

4.1.1. CA shall immediately and in any case not later than 15 days from the appointed date, nominate an officer as an officer to carryout roles and responsibilities of Project Engineer and communicate the details of the same to the Concessionaire and from time to time in case of change of incumbent.

4.1.2. The Project Engineer shall nominate an officer or officers who could act in the event of the said officer being away from the office.

4.2 Duties and Obligations of Project Engineer

4.2.1. Project Engineer shall be the representative of CA to review, oversee, monitor, coordinate activities and issue certain directions related to the project.

4.2.2. The Project Engineer is expected to play a positive and independent role in discharging his overseeing and monitoring functions, thereby facilitating the smooth implementation and operation of the project. Broadly, the role and responsibility of the Project Engineer is to review, monitor, control and all other functions where required by the agreement, and shall specifically include:



- a. Review and monitoring of project execution by Concessionaire as per the agreed time schedules and in accordance with this agreement and ascertain that the project facilities constructed by Concessionaire are ready within agreed time for operations and issue a Readiness Certificate/Provisional Readiness Certificate
- b. Review and monitoring of project operation and maintenance by Concessionaire that it is in accordance with this agreement and ascertain that the Concessionaire is not acting prejudicial to the interests of the project or the project facilities including the review of the procedures and practices.
- c. Certify on a daily basis, the following quantum of MSW:
 - i. issued to the Concessionaire.
 - ii. accepted by Concessionaire
 - iii. processed at the waste processing facilities
 - iv. rejects from concessionaire to C.A landfill site.

4.2.3. Acts of Project Engineer as far as it is within the rights and obligations set out for him in the agreement shall be deemed to be the acts of CA.

4.3 Dispute Resolution between Project Engineer and the Concessionaire

Save where expressly stated to the contrary in this agreement, any dispute, difference or controversy of whatever nature between the Concessionaire and the Project Engineer, however arising under, out of or in relation to this agreement including disputes with regard to any acts decision or opinion of the Project Engineer and so notified in writing by either Concessionaire or Project Engineer shall in the first instance be attempted to be resolved by the Additional Commissioner (H&S). Where it is not so resolved to the satisfaction of the parties, then the dispute shall be referred to the Commissioner, whose decision in the matter shall be final, conclusive and binding.

ARTICLE 5: CONCESSIONAIRE'S OBLIGATIONS

In addition to and not in derogation or substitution of any of its other obligations under this agreement, the Concessionaire shall have the following obligations:

5.1 Payment of Royalty

The concessionaire shall pay a royalty of Rs.25/- per metric ton of MSW supplied by the C.A to their project site



5.1.1 : Security Deposit

- The Concessionaire shall, for due and punctual performance of its obligations hereunder relating to the project, furnish Rs.5.00 lakhs per MW as refundable performance guarantee to the Greater Hyderabad Municipal Corporation after entering Power purchase Agreement, repayable partly(50%) at the time of financial closure and partly (50%) at the time of kick-off of the Project.

5.2 Financing Arrangement

5.2.1. The Concessionaire shall at its cost, expense and risk make such financing arrangements as would be necessary to implement the project and to meet all of its obligations under this agreement, in a timely manner.

5.2.2. The Concessionaire shall, at its own cost, endeavour to obtain carbon credits for the project by adopting greenhouse gas mitigation measures and shall also carry out all such activities including preparation of design report under clean development mechanism. The Concessionaire shall enjoy all the benefits of such carbon credits accruing to the project during the Concession Period.

5.2.3. Sale of Power and the output from the above facility is the sole responsibility of the Company.

5.3 Concessionaire's obligations during Pre-Commencement of Construction Works

5.3.1. Prior to commencement of any construction works, the Concessionaire shall finalize an implementation plan for the project ("Implementation Plan") and submit it to CA for record, follow-up and discussion. The implementation plan shall, inter alia, include:

- a. A detailed schedule of implementation for putting up and operationalising the project facilities, which shall specify at least four major milestones and the time frame including the financial closure i.e The Company shall obtain financial closure within 90 days from the date of signing of power purchase Agreement. The Power Purchase Agreement shall be done within 180 days of signing of Agreement.



- b. The Concessionaire shall commission the plant within 18 months from the date of financial closure.
- c. The Critical Path Method (CPM) / Programme Evaluation and Review Technique (PERT) charts or similar activity planning technique/ method for monitoring. This would cover all stages/ aspects of implementation of the project facilities including design and engineering, procurement of materials and equipment, installation, construction and testing;
- d. Manpower deployment plan, including the designation of key personnel for the management and supervision of all project-related activities. (This would include the designation of suitably qualified personnel for areas such as contract administration and supervision, construction management, safety, environmental management, plant and equipment maintenance, procurement, materials management and quality control);
- e. A broad method statement for key items (including earth works, concrete works, structural concrete work, and road works) setting out the methodology of construction, materials and construction equipment mobilization/ utilization plans;
- f. Details of the quality assurance and quality control procedures;
- g. Format of the monthly project progress report for giving details of the physical progress in implementation of the project facilities and operations and maintenance activities undertaken ("Monthly Project Progress Report").

5.3.2. Prior to commencement of construction of any of the Project Facilities, the concessionaire shall have:

- a. obtained all such applicable permits, sanctions, approvals etc., as are necessary to commence construction of such project facilities;
- b. finalized such drawings with necessary approvals and the Implementation schedule;
- c. Mobilized the requisite resources, personnel and organization necessary for the same and designated and appointed suitable officers/ representatives as it may deem appropriate with responsibility to supervise implementation of the project and for exchange of information with the Project Engineer and CA



5.3.3. Concessionaire shall immediately **upon commencement** of construction works submit information of commencement to the Project Engineer and CA of the same.

5.4 Obligations during Construction

5.4.1. The Concessionaire shall

- a. ensure that the construction of the project facilities is undertaken with minimal inconvenience to traffic or public.
- b. the Concessionaire shall prepare its own drawings for the project, and shall be solely responsible for the adequacy of the drawings in accordance with development specification and applicable laws.
- c. take precautions to avoid inconvenience to, damage to, destruction of or disturbance to any third party rights and properties including public property;
- d. ensure adequate safety of the personnel deployed at the project site which would include measures such as the provision and maintenance of barricades, and illumination during night;
- e. be in compliance with the applicable laws and applicable permits obtained for the project including the clearances to be obtained from CA, if any;
- f. adhere to the implementation plan;
- g. deploy adequate number of qualified and competent personnel having relevant experience and skills for implementation of the project and interaction with the Project Engineer / CA.
- h. take adequate insurance for the implementation of the project to cover all claims etc., by employees, public, etc.
- i. take adequate insurance during the operation of the project to cover all claims etc., by employees, public, etc.

5.4.2 Tests

- a. Various tests ("Tests") would be undertaken for the project as per the standards prescribed under MSW Rules and Bureau of Indian Standards. Where no testing methods are specified by the said standards, details of the tests to be carried out and specifications to be achieved for the respective project facilities/construction works or part thereof shall be prepared and submitted to CA prior to such tests.



- b. The Concessionaire shall mobilize such, labour, electricity, fuels, stores, apparatus and Instruments as are normally required for examining, measuring and testing any materials or plant and shall supply samples of materials to undertake tests.

5.4.3 The Concessionaire shall mobilize adequate numbers of labour, equipment, plants and machinery to ensure adherence to the project implementation plan.

5.4.4. The Concessionaire shall arrange for all the material requirements for the project and disposal of all material wastes. The applicable permits in this regard would have to be obtained by the Concessionaire. All operations shall be carried out by the Concessionaire with minimum degradation of the environment. All excessive and unsuitable excavated materials shall be stacked at appropriate dumping places or otherwise disposed of by the Concessionaire with the prior approval of CA.

5.4.5. Prior to making the request for the issue of Readiness Certificate or Provisional Readiness Certificate, the Concessionaire shall submit to the Project Engineer/CA the following:

- a. the Operations and Maintenance Manual for the Project setting out in detail the standards, schedules, procedures, type, periodicity and other details of the operation and maintenance activities to be carried out for the project during the operations period so as to meet the operations specifications as well as details of the management information system to be incorporated, reports to be submitted and procedure for reviews,
- b. the completion certificate duly certified by the Concessionaire stating that the project facilities have been completed according to the applicable laws and an undertaking that the entire responsibility lies with the Concessionaire in respect of defects/damages/failure etc., in the project facilities, if any.; and
- c. Operations & Maintenance Plan ("O&M Plan") for the next year of operations.
- d. Insurance Policy for the project, manpower etc.

5.4.6 Each year, eight weeks before the anniversary of the COD, the Concessionaire shall submit an Operations & Maintenance Plan ("O&M Plan") for the next year of operations.



5.5 After Completion of Construction

Upon completion of construction but prior to issue of the Readiness Certificate, the Sites shall be cleared of all construction equipment, surplus materials, debris and temporary installations and shall be left in tidy and clean manner.

5.6 Reporting Requirements and Documents to be provided

5.6.1. During the period of construction of the project ("Implementation Period"), the Concessionaire shall submit to C.A, Bi- Monthly Project Progress Reports (for alternate calendar month or part thereof) within 7 (five) working days of the last day of the month. The report shall review the progress made, identify slippages, if any, and project the future activities to be undertaken (including rectifications), operations and maintenance activities undertaken and would, inter alia, include the following:

- a. Listing of working drawings/sketches submitted
- b. Listing of the "As Built" drawings submitted
- c. Progress of pre-construction activities - mobilization of plant and equipment, personnel, site office, utility relocation etc.
- d. Concessionaire's compliance inspection report, if any required
- e. Constraints in construction
- f. Project data with contract detail and sectional completion details
- h. Tests carried out, if any, and results thereof
- i. Remedial measures taken by the Concessionaire following such tests, where required
- j. Review of milestones and reasons for delay, if any
- k. Suspension of construction, if any, its reasons, duration and the steps undertaken to resume construction
- l. All actual or potential deviations from the Implementation Plan
- m. Disagreements/ Disputes, if any, and proposed measures to be taken
- n. Maintenance activities carried out by the Concessionaire
- o. Injury to any personnel, its severity, cause and remedial measure(s) taken to avoid recurrence
- p. Brief report of any accident / incident within the site, injury/fatality, property damage, cause of accident and actions taken to avoid recurrence
- q. Notes of meetings between the Concessionaire and Project Engineer/ CA highlighting critical decisions taken or agreements reached.

5.6.2. Within one month of issue of Readiness Certificate or the Provisional Readiness Certificate, as the case may be, the Concessionaire shall submit to CA the following documents, free of cost:



- a. three hardcopies and two copies in electronic form (two Compact Discs) of the "as-built" drawings of the construction works which have been completed as on COD, including, but without limitation, an "as-built" survey illustrating the layout of the project and setback lines, if any, of the buildings and structures forming part of project facilities reflecting the project as actually designed, engineered and constructed. Such "as-built" drawings shall be detailed, accurately scaled and sequentially numbered, covering all relevant engineering features, which in relation to structures shall also include cross sections in each drawing;
- b. copies of all geo-technical, meteorological reports, if any;
- c. three hardcopies and two copies in electronic form (two Compact Discs) of the Operations and Maintenance Manual.

5.7 Project Facilities Completion and Readiness Certificate for COD

5.7.1. The Concessionaire shall adhere to the minimum development specifications and achieve COD on or before the scheduled project completion date.

5.7.2. All necessary tests shall be conducted by Concessionaire for all the components of the project facilities. If the tests are successful and the project facilities can be safely and reliably commenced for operation with the self certification by the Concessionaire, the Project Engineer shall issue Readiness Certificate which shall mean that the project facilities are ready for accepting waste for activities related to processing and power generation

5.7.3. The Project shall be deemed to be complete and ready to receive MSW for processing only when the Provisional Readiness Certificate or the Readiness Certificate is issued by the Project Engineer in accordance with the provisions hereof.

5.8 Project Implementation: Operation and Maintenance

5.8.1. The Concessionaire shall operate and maintain the project facilities in accordance with the operations specifications as set out in Schedule 3 for the processing of MSW

- a. In order to prevent pollution problems the Concessionaire at project place the following shall be complied with :a) The incoming wastes at sites shall be maintained prior to further processing. If such storage is done in an open area, it should be provided with impermeable base with facility for collection of leachate and surface water run-off into lined drains leading to leachate treatment and disposal facility.



- b. Necessary precautions shall be taken to minimize fire hazard.
- c. In case of breakdown or maintenance of Plant, waste intake shall be stopped
- d. Pre-process and post process rejects shall be removed from the processing facility on regular basis and shall not be allowed to pile at the site. Non-recyclable shall be sent for landfill site as indicated by the CA.
- e. The window area shall be provided at compost process plant with impermeable base.
- f. Ambient air quality monitoring shall be regularly carried out particularly for checking odour nuisance at down wind direction on the boundary of processing plant.

5.9 Insurance The Concessionaire shall at its cost and expense, purchase and maintain, during the concession period all insurances in respect of the project facilities and the workmen / employees in accordance with the good industry practice. The Concessionaire shall maintain a register of entry in order of premiums paid towards the project facilities and the workmen / employees and proof of payments made shall be submitted to CA whenever requested for.

5.10 Application of Insurance Proceeds Subject to the provisions of the financing documents and unless otherwise provided herein, the proceeds of all insurance policies received shall be promptly applied by the Concessionaire towards repair, renovation, restoration or reinstatement of the project facilities or any part thereof which may have been damaged or destroyed. The Concessionaire may designate the lenders as the loss payees under the insurance policies or assign the insurance policies in their favour as security for the financial assistance provided by them to the project. The Concessionaire shall carry out such repair, renovation, restoration or reinstatement to the extent possible in such manner that the project facilities after such repair, renovation, restoration or reinstatement be as far as possible in the same condition as it were prior to such damage or destruction, normal wear and tear excepted.

5.11 Un-insurable Risks If during the concession period, any risk which has been previously insured becomes un-insurable due to the fact that the insurers have ceased to insure such a risk and therefore insurance cannot be maintained/re-instated in respect of such risk, the concessionaire shall not be deemed to be in breach of its obligations regarding insurance under this agreement.



5.12 Environmental Compliance The Concessionaire shall, at all times, ensure that all aspects of the project facilities and processes employed in the construction, operation and maintenance thereof shall conform with the laws pertaining to environment, health and safety aspects including rules such as MSW Rules, policies and guidelines related thereto. The Concessionaire shall obtain and maintain from time to time all necessary clearances from the APPCB or any other similarly empowered Government Agencies and for this purpose shall carry out the necessary environmental impact assessment studies and implement appropriate environment management plans in respect of the project facilities.

5.13 Weighbridge

5.13.1. Daily Information

a. The CA shall indicate the weigh bridge location and its accuracy. The CA may also permit the Concessionaire to install weigh bridge at the concessionaire cost at the project site, which is capable of accurately measuring all types of MSW and landfill quantities to enable the parties to determine all quantities and make all calculations, referred to in this agreement. If additional weigh bridge is located at the MSW disposal point and the landfill site by the CA and there is any difference of calculation, it shall be sorted by the Project engineer. If there are any disputes on this, the decision of the Commissioner is final.

b. The Concessionaire shall provide data to the CA on a monthly basis for each of the items referred to in the preceding clause (a) in a form reasonably acceptable to the parties.

5.13.2. Accuracy of Weighbridge

a. The Concessionaire shall, at its cost, ensure that the weighbridge is maintained, operated and inspected in accordance with all applicable laws and that it accurately measures and records all types of MSW delivered by or collected from the CA.

b. Without limiting to the preceding clause (a), the Concessionaire shall ensure a calibration test of the weighbridge at least once every six (6) months and a copy of the calibration test certificate with results shall be sent to CA as soon as possible after the test is carried out.

c. The calibration test referred to in the preceding clause (b) shall be carried out after giving a reasonable notice to CA.



5.13.3. Audit of Weighbridge Data

- a. CA may conduct or arrange an audit of the weighbridge data and records for the purpose of verifying weighbridge data provided by the Concessionaire.
- b. CA shall give the Concessionaire at least 3 (three) days notice of CA's intention to conduct or arrange for the conduct of an audit.

5.13.4. Adjustment & Calibration

- a. The Concessionaire shall have the weighbridges at all the project sites calibrated for accuracy at least, once in a period of six months and the gap between two such calibration tests shall not be more than six months.
- b. If a calibration test conducted under Article 5.13.4 or an audit conducted under Article 5.15.3 shows that the weighbridge has been inaccurately measuring any of the items referred to in Article 5.13.1, the CA may issue debit notes for any reasonable adjustments necessary to give effect to the result of the calibration test or the audit.
- c. If it is not possible to accurately determine the date from which the weighbridge began inaccurately measuring excess any of the items referred to in Article 5.13.1, the parties shall assume that the weighbridge had been:
 - i) accurately measuring the relevant items referred to in Article 5.13.1 from the date of the last accurate calibration test until the half way point; and
 - ii) Inaccurately measuring the relevant items referred to in Article 5.13.1 from the day after the half way point until the date of the calibration test that revealed that the weighbridge has been measuring accurately.
- d) For the purpose of preceding clause, the term "half way point" means the day which is half way between the date of the last accurate calibration test and the date of the calibration test that revealed that the weighbridge has been measuring excess inaccurately.

5.14 Weighment, Acceptance and Rejection of MSW

5.14.1. The Concessionaire shall weigh the MSW at the receiving point and prior to processing point and shall also weigh the landfill waste prior to proceeding landfill.



5.14.2. The Concessionaire hereby undertakes to accept all MSW supplied by CA,

5.14.3. In case the MSW supplied by CA contains hazardous waste and/or bio-medical waste or electronic waste and construction debris, if any, the Concessionaire upon becoming aware of the same shall cause the same to be unloaded or stored in "Assigned Place" and shall make arrangements for disposal of the same in accordance with the applicable law.

5.15 Processing of MSW and Sale/Distribution of Compost /Recycled Material / Power

5.15.1. The Concessionaire may adopt such processes and methods as it considers necessary or expedient for processing of MSW, producing of RDF generation of Power from the processed MSW, subject to meeting development specifications and operations specifications.

In the event of failure to carryout processing of the said percentage of MSW, the Concessionaire shall be liable to a penalty Rs .400/- per ton as may be agreed for the quantum of waste for which processing as per operations specifications has not been undertaken.

5.15.2. The Concessionaire shall be free to sell or otherwise dispose of the recyclables, compost or organic manure, refuse derived fuel, Bio-Gas and/ or other material recovered after processing the MSW, at the project facilities at such price and to such persons and using such marketing and selling arrangements and strategies as it may deem fit and appropriate.

The Concessionaire shall be free to utilize the processed MSW as fuel for the purpose of generating electrical power at its power plant at YACHARAM. and to sell such power to TATA or to such other party / parties as mutually agreed upon.

5.16 General Obligations

The Concessionaire shall at its own cost and expense:

- a. investigate, study, design, construct/ renovate, operate and maintain the project facilities in accordance with the provisions hereof;
- b. obtain all applicable permits as required by or under the applicable law and be in compliance thereof at all times during the concession period;
- c. comply with applicable law governing the operations of MSW processing units and engineered sanitary landfills at all times during the concession period;



- d. procure and maintain in full force and effect, as necessary, appropriate proprietary rights, licenses, agreements and permissions for materials, methods, processes and systems used in or incorporated into the Project;
- e. make efforts to maintain harmony and good industrial relations among the personnel employed in connection with the performance of its obligations under this agreement and shall be solely responsible for compliance with all labour laws and solely liable for all possible claims and employment related liabilities of its staff employed in relation with the Project and shall indemnify the CA against any claims, damages, expenses or losses in this regard and that in no case and shall for no purpose shall CA be treated as employer in this regard;
- f. make its own arrangements for construction materials and observe and fulfill the environmental and other requirements under the applicable law and applicable permits;
- g. Be responsible for all the health, security, environment and safety aspects of the project at all times during the concession period.
- h. Upon receipt of a request thereof, afford access to the project facilities to the authorized representatives of CA for the purpose of ascertaining compliance with the terms, covenants and conditions of this agreement.
- i. Pay all taxes, duties and outgoings, including utility charges relating to the project facilities promptly.

5.17 No Breach of Obligations The Concessionaire shall not be considered to be in breach of its obligations under this agreement nor shall it incur or suffer any liability if and to the extent performance of any of its obligations under this agreement is affected by or on account of any of the following:

- a. Force Majeure Event, subject to Article 8.3;
- b. CA Event of Default;
- c. Compliance with the instructions of CA or the directions of any Government Agency other than instructions issued as a consequence of a breach by the Concessionaire of any of its obligations hereunder;
- d. Closure of the project facilities or part thereof with the approval of the CA.



5.18 Materiality of Obligations

The obligation of the Concessionaire to accept, process and dispose of the MSW of the CA is of essence to this agreement. Similarly, the obligation of the CA to deliver all MSW generated or collected within its jurisdiction to the project facilities for processing and to maintain the assured waste quantity are of essence to this agreement. Any uncured breach thereof shall render the party in default liable to an action for default as stipulated in the concession agreement.

ARTICLE 6: CA's OBLIGATIONS

6.1 In addition to and not in derogation or substitution of any of its other obligations under this agreement, CA shall have the following obligations:

CA shall at its cost, risk and expense, endeavour to supply from the date of the COD till the waste supply stoppage date, free of cost to the Concessionaire, pro rata, agreed quantity of MSW to the waste processing facilities at the MSW receiving point during the subsistence of the concession agreement. The CA shall endeavour, to adopt such methods and plans, to the extent permitted by law, to ensure delivery of all the MSW to the receiving point. The quantity of assured supply of waste shall be 700 MTs of Municipal Solid Waste net per day for a period of 30 years.

- a. CA shall endeavour to ensure that the non-conforming waste such as hazardous waste, bio medical waste contraction & demolishing debris, sand/silt from storm water drains, silt from sewerage, silt/sludge/residues/rejects from sewerage treatment plants /effluent treatment plants, human fecal matter, sludge or silt from septic tanks, small & big dead animals /carcass/offal's/cadavers, bulky waste, ash is not more than 5% of the total waste supplied to the concessionaire.
- b. In case the aggregate quantity of mixed MSW supplied by CA in any given month falls short of the agreed quantity of MSW, the Concessionaire shall utilise the MSW supplied in the previous months and in case of no stock of MSW may procure bio-fuel to fill the input gap and operate the project facilities plant.



ARTICLE 7: LANDFILL WASTE & TIPPING FEES

Land filling: The Concessionaire shall weigh the landfill waste prior to disposal of the same in the landfill facility. The State Level Official Committee of MA&UD, Govt. of A.P. shall decide the tipping fee and relevant conditions for Integrated MSW facility after power purchase agreement is concluded by the Company.

b) The Project Proponent Company shall deliver their processed rejects to the common SLF set up by Greater Hyderabad Municipal Corporation in survey no. 617 of Malkapur Village, Choutuppal Mandal in Nalgonda District as per G.O.No. 617/rev/assn.iv dated 12.07.2010 their own cost up to a distance up to 30 km from their plant.

ARTICLE 8 : EVENT OF TERMINATION

GHMC may terminate the agreement if the Concessionaire

- Could not accept and process the MSW for more than 6 months continuously after commencement of the project
- Could not commence the project within 720 days of the financial closure

Concessionaire may terminate the agreement if the CA

- Could not supply 700 tonnes of MSW for more than 6 months continuously after commencement of the project

For any such intention of termination shall be in writing and through a notice to other party. The other party shall reply in writing within one month of receiving notice. However, if agreed by both the parties the matter can be amicably settled and resumption of services can be done.

ARTICLE 9: FORCE MAJEURE & CHANGE IN LAW

9.1 Force Majeure Event

Any of the following events which is beyond the control of the party claiming to be affected thereby ("Affected Party") and which the affected party has been unable to overcome or prevent despite exercise of due care and diligence, and results in material adverse effect shall constitute a Force Majeure Event:

- a. earthquake, flood, inundation and landslide
- b. storm, tempest, hurricane, cyclone, lightning, thunder or other extreme atmospheric disturbances



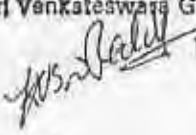
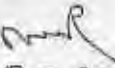
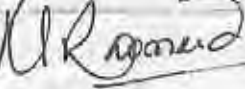
- c. fire caused by reasons not attributable to the Concessionaire or any of the employees, contractors or agents appointed by the Concessionaire for purposes of the project;
- d. acts of terrorism;
- e. strikes, labour disruptions or any other industrial disturbances not arising on account of the acts or omissions of the Concessionaire or the contractor
- f. any judgment or order of a court of competent jurisdiction or statutory authority in India made against the Concessionaire in any proceedings which is non-collusive and duly prosecuted by the Concessionaire, and
- g. any unlawful, unauthorized or without jurisdiction refusal to issue or to renew or the revocation of any applicable permits, in each case, for reasons other than Concessionaire's breach or failure in complying with the project specifications, applicable laws, applicable permits, any judgment or order of a Governmental Agency or of any contract by which the Concessionaire is bound.
- h. action of a Government Agency like acts of expropriation, compulsory acquisition or takeover by any Government Agency of the project/project facilities or any part thereof or of the Concessionaire's rights in relation to the project,
- i. early termination of this agreement by CA for reasons of national emergency or national security.

I NOW THEREFORE, it is hereby agreed by and between the parties as follows

1. The GHMC shall have a right to nominate one Director from the CA on the Board of Directors of the Company, subject to the provisions of the Companies Act, 1956, as amended up-to-date.
2. The project shall be completed and the generation of the power shall commence within 18 months from the date of Project finance closure.
3. The Company represents and warrants that it has full power and authority to enter into this Agreement and to fulfill the obligations arising therefrom.



4. The C.A represents and warrants that it has full power and authority to enter into this Agreement and to fulfill the obligations arising there from. The C.A further represents and warrants that all the formalities and procedures required for this Agreement to be binding on the C.A will be carried out.
5. In order to implement this Agreement, if any change, amendment or alteration is required the Company shall carry out the same in consultation with C.A.
6. No party shall have any right to assign or transfer any rights, information or data delivered or imparted here under to any other entity without prior written consent of the other party.
7. If any dispute arises relating to this Agreement between the parties the same shall be resolved under the Arbitration and Conciliation Act 1996. The Venue of arbitration shall be Hyderabad.
8. IN WITNESS WHEREOF the parties hereunto have put their respective hands to these presents on the date and year first above written.

SIGNED SEALED AND DELIVERED For and on behalf of CA by:	For and on behalf of CONCESSIONAIRE By: Sri Venkateswara Green Power Projects Ltd
	
(Signature)	(Signature)
(Name) S. ALEGY BASHAR	(Name) K.V. SATYANARAYANAREDDY
(Designation) ADDITIONAL COMMISSIONER	(Designation) DIRECTOR
In the presence of:	In the presence of:
1)  10/11/2010 SECURE TV	1) K. V. Satya Narayan Reddy
2)  10/11/2010 DE/2010-	2) 
	 

ANNEXURE-V



తెలంగాణ నూతన మరియు పునరుద్ధరణీయ ఇంధన వనరుల అభివృద్ధి సంస్థ లిమిటెడ్

Telangana New & Renewable Energy Development Corporation Ltd.
(A State Govt. Company)

6-8-207/2, Pishah Complex, Nampally, Hyderabad - 500 001, Telangana, India.

Tel : Off : 040 - 23201502, 23201503 Fax : 040 - 23201504

E-mail : info@tnredcl.telangana.gov.in Web : www.tnredcl.telangana.gov.in

Ref: TNREDCL/MSW/VGR/2016-17

Date: 15/10/2016.

PROCEEDINGS

Sub:- Sanction of 12.00 MW Power Project based on Municipal Solid Waste (RDF) to power plant to be set up at Sy.No. 122,123, & 125, Yacharam (V&M) Ranga Reddy District by M/s Sri Venkateswara Green Power Projects, Hyderabad - Reg.

- Ref: 1. G.O.Ms. No. 413, dated 11.6.2008, Municipal Administration and Urban Development (J2) Dept., Govt. of A.P.
2. Application of M/s. Sri Venkateswara Green Power Projects, dt. .8.8.2016
3. Consent Agreement with Greater Hyderabad Municipal Corporation, dt.10.11.10
4. O.P.No. 18 of 2016 dt. 13.6.2016 of Telangana Electricity Regulatory Commission
5. Minutes of the 228 th Board Meeting held on 5.11.2012
6. Approval of VC & Managing Director at Para No.10 n.f., Dt. 3.9.2016
7. This Office Letter even number dated 16.9.2016.
8. Agreement Submitted by the Developer dt. 15.10.2016

-@@@-

In the reference (1st) cited, the Government of Andhra Pradesh had approved the proposal of M/s Sri Venkateswara Green Power Projects to establish the 12 MW capacity Power Project under Municipal Solid Waste(RDF) i.e., Integrated Municipal Solid Waste Management Facility with 12 MW project. In the reference (3) above, the Project is proposed to be established at Sy.No. 122,123 & 125, Yacharam (V&M) Ranga Reddy District.

The V.C. & Managing Director, TNREDCL had been delegated with the powers to sanction all Renewable Energy Power Projects up to 20 MW capacity during the 228th Board Meeting held on 05.11.2012.

In the reference 3rd above, the developer was informed to enter into Agreement as per the procedure and to submit the refundable Security Deposit and sanction Fee, Application Fee etc as prescribed to the project.

The firm has submitted the Agreement in ref(4) above along with demand drafts for an amount of Rs. 24,15,000/- towards application fee, sanction fee along with Service Tax and the Bank Guarantee for an amount of Rs. 12,00,000/- towards refundable Security Deposit @ Rs. 1.00 lakh per MW, returnable on successful implementation and commissioning of the power plant.

Hence, sanction is hereby accorded to M/s Sri Venkateswara Green Power Projects, Hyderabad to establish the Municipal Solid Waste (RDF) i.e., Integrated Municipal Solid Waste Management Facility with 12 MW project at Sy.No. 122,123 & 125, Yacharam (V&M) Ranga Reddy District for generation of power for captive use / sale of power to TRANSCO as per the matter in O.P.No. 18 of 2016, dated: 13.6.2016 of Telangana State Electricity Regulatory Commission, Hyderabad as per the Terms and conditions of the Agreements entered by the developer with the respective departments and subject to the following conditions.

CONDITIONS:

1. The MSW Power Projects developer shall abide by the regulations of the Telangana Electricity Regulatory Commission (TSERC). The Proceedings issued by TSERC shall be followed. The developer shall approach TSERC for obtaining license/exemption from obtaining license for supply/use of power. In the event of TSERC disallowing captive consumption or third party sale, the developer shall be required to enter into PPA with TS TRANSCO. The TNREDCL cannot guarantee either the power purchase price of the TS TRANSCO entering into PPA as these are depend upon the power supply position in the State at a given point of time and requirement of Power by TS TRANSCO. The Developer will be proceeding at his own risk with regard to either Regulatory clearance for supply license or power purchase agreement with TS TRANSCO.
2. The Developer shall complete and commission the 12.00 MW Power Project based on Municipal Solid Waste (RDF) to power plant at at Sy.No. 122,123, & 125, Yacharam (V&M) Ranga Reddy District and as per the Terms and conditions of the Agreements entered by the developer with the respective departments within the stipulated period as communicated in the ref(1) and as agreed with related departments and subject to the guidelines of MNRE.
3. The Bank Guarantee shall be adjusted against penalties imposed if any due to delay in execution of the project and the balance amount will be refunded on successful commissioning of the project as per the schedule.
4. The Project Developer shall follow the guidelines issued by MNRE /State Government / TNREDCL from time to time.
5. The Project Developer shall submit monthly progress reports to TNREDCL on status of the project.
6. The Project Developer is advised to submit the MOU with the technology provider to TNREDCL.
7. The developer shall use the Technology for generation of power as submitted along with the proposal for sanction of the project. In case of deviation, the sanction will get automatically cancelled.
8. The Developer shall follow the norms of TS Pollution Control Board.
9. The Project Developer is permitted to use the Municipal Solid Waste as per the Agreement with G.H.M.C. Hyderabad and also as per MNRE norms.

10. The Developer should submit the Tripartite Agreement entered between M/s Ramky, GHMC and to M/s Sri Venkateswara Green Power Projects, Hyderabad for supply of Municipal solid waste.
11. The Developer shall submit the copies of the agreements entered / to be entered with other related departments from time to time to TNREDCL for information and record.
12. Installation of second hand or used machinery is not permitted.

Sd/-

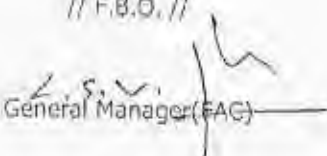
VC & MANAGING DIRECTOR

To:

M/s. Sri Venkateswara Green Power Projects,
6-1-69/2, Flat No. 203, Sainivas, Saifabad,
Hyderabad: 500 004, for information and with a request to send monthly progress report
to this office by 5th of every month.

Copy submitted to the Principal Secretary to Govt. Energy Department, Govt. of Telangana, Hyd.
CC to the Chairman & Managing Director, Telangana TRANSCO, Vidyuth Soudha, Hyd.
CC to the Director (USI), MNRE, Govt. of India, New Delhi.
CC to the District Collector, Ranga Reddy District.
CC to the Director, (Engg), TERC, Singareni Bhavan, Near Ayodhya Hotel, Lakdikapool, Hyderabad.
CC to the District Manager, TNREDCL, Ranga Reddy.
CC to the C & MD, TSSPDCL, Hyderabad.

// F.B.O. //


General Manager (FAG)

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100



सत्यमेव जयते

ONE
HUNDRED RUPEES

भारत INDIA
INDIA NON JUDICIAL

తెలంగాణ తెలంగాణ TELANGANA

S.No : 9913 Date: 13 OCT -2016 ₹ 100/-

Purchaser: N. Sarba Rao Naidu s/o. N. Prabhakar

For whom: S.V. Green Power Industries Ltd. Hyderabad

F 134443

T.SANJAY SINGH

LICENCED STAMP VENDOR

Licence No: 16-02-001 of 1999

Renewal No: 16-02-01 of 2014

1167/11/1, Tilaknagar, Hyd 48

Cell # 90102-68677.

AGREEMENT

1. This Agreement is made and entered on this 15th day of October, 2016 at Hyderabad by and between. Telangana New & Renewable Energy Development Corporation Limited, Hyderabad a fully owned State Government Company, registered under companies Act, 1956, having it Registered at D.No. 5-8-207/2, Psgah complex, Nampally, Hyderabad. 500 001 (India) represented by its Vice Chairman and Managing Director hereinafter referred to as the "TNREDCL" which expression shall unless it be repugnant to the context or meaning thereof, include its administrators, successors and assigns of the First Part.

AND

2. M/s Sri Venkateswara Green Power Projects, Hyderabad incorporated under Firm Registration having its Registered office at D.No. 6-1-69/2, Flat No. 203, Sainivas, Saifabad, Hyderabad. 500 004, Telangana State represented by its Managing Director Sri Kovvuri Venkateswara Reddy (it's Attorney) hereinafter referred to as the "Developer" which expression shall unless it be repugnant to the context or meaning thereof, include its administrators, successors and permitted assigns of the Second Part.



For Sri Venkateswara Green Power Projects Limited

E. K. V. Reddy
Authorised Signatory

For Telangana New & Renewable Energy Development Corporation Limited

J. C. Rao
Vice Chairman & Managing Director

The TNREDCL and the Developer are severally referred to as the Party and collectively as Parties.

WHEREAS:

A. TNREDCL is the Nodal Agency for New and Renewable Energy Generation Projects in the State of Telangana for approval, facilitation and co-ordination for setting of all the Renewable Energy Projects implemented in the State of Telangana including Municipal Solid Waste to Power Projects and other Renewable Energy Projects of Govt. of India and Telangana State Government and as per the policies and guidelines of the Government of India in the Ministry of New & Renewable Energy and Government of Telangana.

B. The Government of Andhra Pradesh had approved the said project of M/s Sri Venkateswara Green Power Projects in the G.O.Ms. No. 413, dated 11.6.2008, Municipal Administration and Urban Development, (D2) Dept., Govt. of A.P for establishing 12.00 MW capacity Power Project under Municipal Solid Waste(RDF) i.e., Integrated Municipal Solid Waste Management Facility with 12.00 MW project and accordingly, the Developer has submitted an application dated 8.8.2016 to TNREDCL for sanction to set up Municipal Solid Waste to Power Project with a capacity of 12.00 KW for power generation and Project is proposed to be established at Sy.No. 122,123 & 125, Yacharam (V&M) Ranga Reddy District.

C. TNREDCL, after due consideration and has issued a provisional letter to the Developer in respect of setting up 12.00 KW for power generation Project proposed to be established at Sy.No. 122,123 & 125, Yacharam (V&M) Ranga Reddy District vide TNREDCL Office Lr. Dated 16.9.2016., containing the terms and conditions of the project Sanctioned Departments i.e., G.H.M.C. Hyderabad and other departments as per their agreements and as per the MNRE guidelines issued from time to time on the implementation of the project. The Developer has remitted application fee, sanction fee and submitted Bank Guarantee in respect of the project as indicated in the issued provisional letter of TNREDCL.

D. As the Developer has complied with the aforesaid terms and conditions, TNREDCL issued the final sanction orders vide Letter dated 16/10/16 and hence this Agreement.

NOW THEREFORE THIS AGREEMENT WITNESSTH AS FOLLOWS:

1. The Developer shall establish the 12.00 MW capacity Power Project under Municipal Solid Waste(RDF) i.e., Integrated Municipal Solid Waste Management Facility with 12.00 MW project as per the policies and guidelines of the M.N.R.E. New Delhi, Government of India and Government of Telangana. The Developer shall also abide by such terms and conditions as may be prescribed by Government of India and Government of Telangana from time to time in the interest of the implementation of the project.



For Sri Venkateswara Green Power Projects Limited
[Signature]
 Authorised Signatory

For Telangana New & Renewable Energy
 Development Corporation Limited
[Signature]
 Vice Chairman & Managing Director

2. The Developer shall obtain all statutory clearances required to establish and operate the plant. However, TNREDCL will facilitate the Developer for the procurement of the necessary clearances and approvals from the concerned authorities for setting up the plant whenever necessitated.

3. The Developer shall make necessary arrangements for procurement of equipment from the reputed manufacturers / suppliers.

4. It shall be the responsibility of the Developer for uninterrupted Generation of the power through Municipal Solid Waste(RDF) i.e., Integrated Municipal Solid Waste Management Facility with 12.00 MW project and for the consumption / utilization of generated power as per the Agreement made entered with the TSERC / G.H.M.C. Hyderabad.

5. The Developer shall abide by the rules, regulations and proceedings of the Telangana State Electricity Regulatory Commission (TSERC) and G.H.M.S. Hyderabad and other related departments issued from time to time.

6. The Developer shall complete the financial closure within a period of Six months from the date of signing of the Agreement or with such extended period as granted by TNREDCL on the request of the Developer on reasonable grounds.

7. The Developer shall execute and commission the Municipal Solid Waste (RDF) i.e., Integrated Municipal Solid Waste Management Facility with 12.00 MW project within the stipulated time as per the Agreement entered with G.H.M.C. Hyderabad and other related departments.

8. For any delay in the implementation commissioning of the plant, the Developer shall pay a penalty at Rs. 20,000 (Rupees twenty thousand only) per MW or any amount decided from time to time for each fortnight delay, within the date as may be stipulated and any fraction of 15 days being rounded off to a fortnight, provided such delay shall not exceed 3 months (three months) from the original due date. In case the delay exceeds 3 months, TNREDCL shall have the right to terminate the Agreement without any liability of whatsoever nature. The said amount of penalty shall be subject to variation as per the policy and guidelines of TNREDCL as may be revised or formulated from time to time.

9. The performance guarantee of Rs. 12,00,000/- (Rupees Twelve lakhs only) paid by the Developer through Demand Draft / Bank Guarantee in favour of TNREDCL, towards refundable security deposit which will be returned on successful implementation and commissioning of the plant as per the

For Sri Venkateswara Green Power Projects Limited

E. Venkatesh

G. Rao
General Manager

terms and conditions herein. The performance guarantee shall be subject to invocation partly or fully for any dues payable or violation of terms and conditions or non-completion / commissioning of the said plant within the stipulated time by the Developer to TNREDCL, in which case the Developer shall make good of the deficiency in the amount of the performance guarantee within 10 days from the date of such invocation failing which TNREDCL shall have the right to terminate the Agreement without any prior notice of whatever nature to the Developer.

10. TNREDCL shall have the right to terminate this Agreement with a 30 (Thirty) days prior notice for non-compliance of any or all obligations by the Developer under this Agreement and if the Developer fails to cure the default with the period of said 30 days, the Agreement shall be terminated by TNREDCL.

11. There shall be no financial assistance or any financial assurance from the TNREDCL. However, the Developer shall be entitled for any grant or subsidy or any assistance subject to the terms of the policies and guidelines of the Government of India and Government of Telangana.

12. The setting up and operation of the plant is the public interest and time is the essence of this Agreement. The Developer shall submit the copies of the Agreements entered / to be entered from time to time with other departments / authorities with reference to this project.

13. All disputes between the Parties shall, in the first instance, be attempted amicably settled in the first instance to be resolved amicably by the Parties. In the event of the Parties not finding an acceptable solution to the disputes(s) within 30 (Thirty) days, the Developer may appeal to the Chairman of the Board of Directors of TNREDCL whose decision shall be final and binding.

14. This Agreement shall be construed and interpreted in accordance with and governed by the laws of India and the Courts at Hyderabad, Telangana State, India shall have jurisdiction over all matters arising out of or relating to this Agreement.

15. Any Waiver by either Party of any default or any rights under this Agreement by the other Party in the observance and performance of any provision of or obligations or under this Agreement.

- (i) Shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions or obligations under this Agreement.
- (ii) Shall not be effective unless it is in writing and executed by a duly authorized representative of such Party; and
- (iii) Shall not affect the validity or enforceability of this Agreement in any manner.



For Sri Venkateswara Green Power Projects Limited

[Signature]
Authorized Signatory

For Telangana New & Renewable Energy
Development Corporation Limited

[Signature]
Authorized Signatory

(b) Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement or any obligation there under nor time or other indulgence granted by a Party to other Party shall be treated or deemed as waiver of such breach or acceptance of any variation or the relinquishment of any such rights hereunder.

16. This Agreement and Schedules together constitute a complete and exclusive statement of the terms of Agreement between the Parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless agreed to by the Parties hereto and evidenced in writing.

17. This Agreement expressly excludes any warranty, condition or other undertaking implied at Law or by custom or otherwise arising out of any other agreement between the Parties or any representation by any Party not contained in a binding legal Agreement executed by the Parties.

IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN

Signed sealed and delivered
For and on behalf of the
Developer
For Sri Venkateswara Green Power Projects Limited
E. M. M. M. M. M.
Authorized Signatory
Signature of the Authorized person

Signed sealed and delivered
For and on behalf of the
THREDC
Tamil Nadu Renewable Energy
Development Corporation Limited
[Signature]
Vice Chairman & Managing Director
Signature of the Authorized person



Designation and seal

Designation and seal

Witnesses:

1.

2.

ANNEXURE - VI
GOVERNMENT OF TELANGANA
ABSTRACT

MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT DEPARTMENT - Greater Hyderabad Municipal Corporation - Extension of three months time for entering P.P.A with T.S.S.P.D.C.L for Establishment of 12 M.W. Power plant by M/s Sri Venkateswara Green Power Project Limited, Hyderabad - Permission - Accorded - Orders - Issued.

MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (F1) DEPARTMENT

G.O.RI.No.448

Dated: 23.07.2017

Read the following

1. G.O.Ms.No. 413, MA&UD (J2) Dated: 11.06.2008.
2. From Sri Eswar Reddy, Managing Director, M/s Sri Venkateshwara Green Power Projects Limited, Saifabad, Hyderabad, Lr.No. SVGPPL/1/RDF/HYD/GHMC. Dated: 02.01.2017.
3. From the Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad, Lr.No 147/AC(H&S)/SWM/GHMC/ 2016, dt. 14.02.2017.

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ORDER:

In the reference 1st read above, the Government have accorded permission to establish IMSWM facility with 12 MW power plant by M/s Sri Venkateswara Hydro Power Projects Ltd. with certain terms and conditions.

- As per conditions (ii) & (iii) of para 3, the GHMC will supply 700 MT of MSW per day to the plant site on free of cost.
- As per conditions (iv) of para 3, the project proponent shall pay a royalty of Rs.25/- per MT of garbage supplied by GHMC.
- As per condition (x), the entrepreneur shall obtain financial closure within 90 days from the date of signing of power purchase agreement.
- As per condition (xi), the entrepreneur shall establish and commission the plant within 18 months from the date of financial closure.

2. In the reference 2nd read above, M/s Sri Venkateshwara Green Power Projects Limited, Saifabad, Hyderabad has requested for extension of time for entering P.P.A with T.S.S.P.D.C.L of 12 M.W. Power plant.

3. In the reference 3rd read above, the Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad, while furnishing detailed report has stated that, in case if M/s Sri Venkateswara Green Power Projects Ltd., comes into Operation, GHMC will have a benefit of Rs.18.00 Cr. to Rs 19.00 Cr. per annum by saving the costs in terms of Treatment & Disposal fee i.e. 40% of tipping fee payable to M/s, HIMSWM Ltd., and additional benefit of Rs 60.00 lakhs royalty to GHMC. Hence, requested the Government to issue necessary instructions with regard to extension of time to the concessionaire for entering into the PPA with TSSPDCL.

4. Government after careful examination of the matter, hereby extend three months of time to the concessionaire (from the date of issue of this order) for entering into the PPA with TSSPDCL to establish IMSWM facility with 12 MW power plant at YACHARAM by M/s Sri Venkateswara Hydro Power Projects Ltd.,

5. The Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad shall take necessary action in the matter accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

NAVIN MITTAL
SECRETARY TO GOVERNMENT

To
The Commissioner,
Greater Hyderabad Municipal Corporation, Hyderabad.
M/s Sri Venkateswara Hydro Power Projects Ltd., Hyderabad
Copy to:
The Managing Director, Mint Compound, TSSPDCL, Hyderabad
The OSD to Minister for MA&UD
The P.S to Secretary to Govt. MA&UD Dept.
Sc/Sf

// FORWARDED :: BY ORDER //


SECTION OFFICER

ANNEXURE - VII

GOVERNMENT OF TELANGANA ABSTRACT

METROPOLITAN AREA & URBAN DEVELOPMENT DEPARTMENT - Greater Hyderabad Municipal Corporation - Enhancement of the WtE plant capacity from 12 MW to 14 MW proposed by M/s. Sri Venkateswara Green Power Projects Ltd., (SVGPPPL) - Ratification - Orders - Issued.

METROPOLITAN AREA & URBAN DEVELOPMENT (GHMC-2) DEPARTMENT

G.O.Rt.No.964

Dated:30.12.2025

Read the following:

1. From the Commissioner, GHMC, Hyderabad, Lr.No.SWM/0031/2015/EE-SWM, Dated:20.08.2024.
2. Govt., Memo. No.4552/GHMC-2/2020, MA&UD(GHMC-2) Dept., dated:08.01.2025
3. From the Commissioner, GHMC, Hyderabad, Lr.No.SWM/0031/2015/EE-SWM, dt:09.06.2025.

ORDER:

In the circumstances reported by the Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad, in the references 1st & 3rd read above and after careful examination of the matter, Government hereby ratify the action taken by the Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad in issuing NOC for expansion of Waste to Energy capacity from 12 MW to 14 MW vide Letter No SWM/0031/2015/EE-SWM/02, dated 09.06.2025 and granting Extension of Time for entering Power Purchase Agreement with TGSPDCL as issued earlier vide G.O Rt No.448, MA&UD(F1) Dept., Dt.26.07.2017 as the same is required by TGSPDCL for entering PPA.

2. The Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad shall take further necessary action in the matter accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

**JAYESH RANJAN
SPECIAL CHIEF SECRETARY TO GOVERNMENT**

To
The Commissioner,
Greater Hyderabad Municipal Corporation, Hyderabad.
Copy to:-
The Director General,
Environment Protection, Training & Research Institute (EPTRI),
Gachibowli, Hyderabad.
The Managing Director TGSPDCL, Hyderabad.
OSD to Secretary to Government, MA&UD Department.
PS to Secretary to Hon'ble C.M.
Sf/Sc.

// FORWARDED:: BY ORDER //

[Signature]
SECTION OFFICER



తెలంగాణ పునరుద్ధరణీయ శక్తుల వనరుల అభివృద్ధి సంస్థ లిమిటెడ్

Telangana Renewable Energy Development Corporation Ltd.

(Formerly Telangana Renewable Energy Development Corp. Ltd.,)

(A State Government Company)

D.No.6-2-910, Visvesvaraya Bhavan, The Institution of Engineers Building,
Khairatabad, Hyderabad - 500 004, Telangana, India.

Tel: (Off) 040-23201502, 23201503, Fax: 040-23201504

Website: www.tgredco.telangana.gov.in

Email: info@tgredco.telangana.gov.in

Ref: TGREDCO/MSW/SVGR/2025-26/266

Date: 22.05.2026

// AMENDMENT ORDER //

Sub: TGREDCO – 14.00 MW Waste to Energy Project of M/s Sri Venkateshwara Green Power Projects Ltd., Yacharam (V&M), Ranga Reddy District – Amendment to Agreement dated 25.06.2019 and Proceedings dated 22.06.2019 – Change of Fuel/Raw Material from RDF to Segregated Municipal Solid Waste (Processed Non-Hazardous Municipal Solid Waste) - Orders - Issued.

- Ref: 1) MoU Dated 15.10.2016 for 12.00 MW
2) This office Proceedings dated 22.06.2019 & MoU Dated 25.06.2019 for 14.00 MW for setting up of Waste to Energy based Power Project.
3) Supply Agreement entered between GHMC, HiMSW and SVGPPL on 24.06.2025
4) This office issued a letter dated 17.04.2026 extension of financial Closure.
5) Lr No. SVGPPL/TGREDCO/150426/01., Dated 15.04.2026 received from M/s. Sri Venkateshwara Green Power Projects Limited., requesting for change of fuel.
6) TGREDCO 48th Board Meeting held on 18.05.2026.
7) Letter no. Nil., dated 20.05.2026 - Undertaking received from M/s. Sri Venkateshwara Green Power Projects Limited.

Whereas, M/s Sri Venkateshwara Green Power Projects Limited entered into an Agreement dated 25.06.2019 with TGREDCO for establishment of 14.00 MW Waste-to-Energy Power Project at Yacharam (V&M), Ranga Reddy District;

And whereas, the developer vide letter dated 15.04.2026 requested for amendment of the Agreement and Proceedings for change in fuel/raw material from Refused Derived Fuel (RDF) to Segregated Municipal Solid Waste (MSW) (Processed Non-Hazardous Municipal Solid Waste);

And whereas, the proposal was placed before the 48th Board Meeting held on 18.05.2026, which accorded approval for the said amendment;

Now therefore, in exercise of the powers vested in TGREDCO and pursuant to the approval of the Board, the following amendment is hereby issued:

AMENDMENT

The existing clause in the Agreement dated 25.06.2019 and Proceedings dated 22.06.2019:

Fuel: RDF

shall stand substituted and be read as:

Fuel: Segregated Municipal Solid Waste (MSW) (Processed Non-Hazardous Municipal Solid Waste).

Contd.,02

Further, wherever the term:

"RDF-based Power Project"

appears in the Agreement dated 25.06.2019 and Proceedings dated 22.06.2019, the same shall be substituted and read as:

"Waste to Energy Power Project using Segregated Municipal Solid Waste (Processed Non-Hazardous Municipal Solid Waste)."

Saving Clause

Except for the amendments specified above, all other terms and conditions contained in:

- Agreement dated 15.10.2016
- Agreement dated 25.06.2019
- Proceedings dated 22.06.2019

shall remain unaltered and continue to be in full force and effect.


VC & Managing Director

✓ To,
M/s. Sri Venkateshwara Green Power Projects Limited,
P No.252-A, Lotus Pond Road, MLA Colony,
Road No.12, Banjara Hills,
Hyderabad - 500 034.

ANNEXURE - IX



TELANGANA STATE POLLUTION CONTROL BOARD
Paryavarana Bhavan, A-III, Industrial Estate, Sanathnagar,
Hyderabad-500 018
Phones : 040-23887500 Fax: 040 - 23887519



CONSENT ORDER FOR ESTABLISHMENT (AMENDMENT) - RED CATEGORY

Order No. 32/TGPCB/MSW/CFE/HO/2026 - 64

Dt.12.04.2026

Sub: TGPCB - MSW - CFE - M/s. Sri Venkateswara Green Power Projects Ltd., Sy.No. 105/7/1,2, 105/11/1, 105/8, 105/8/1 & 105/10/1, 105/11/4, 105/10/4 & 105/8/3, Yacharam (V&M), Rangareddy District - Consent for Establishment For Amendment under Sec.25 of Water (Prevention & Control of Pollution) Act, 1974 and under Sec.21 of Air (Prevention & Control of Pollution) Act, 1981 - Issued - Reg.

- Ref:**
- 1) CFE Order No.127/PCB/MSW-PROJ/2012-1615, dated 25.07.2012
 - 2) Auto renewal CFE for Extension of Validity Period vide Order No. 127 / TSPCB / CFE / RO-RR-I / HO / 2017, dated 16.06.2017.
 - 3) Amendment to CFE Auto renewal issued vide Order No.127/TSPCB/CFE/RO-RR-I/HO/2017-3036, dt. 13.12.2017 for Change of Address.
 - 4) Amendment to CFE order issued vide dated 22.11.2018.
 - 5) CFE Expansion Order dt.127/TSPCB/CFE/RO-RR-I/HO/MSW/2012 dt. 11.03.2020.
 - 6) Industry representation dated 10.06.2025 for CFE Extension.
 - 7) CFE Extension Order No.234/TGPCB/RRD/RO-RR-I/HO/2025, Dt. 20.06.2025.
 - 8) Industry representation dated 18.02.2026.
 - 9) EE, RO - RR1 report dated 23.02.2026.
 - 10) Additional information vide mail dated 28.02.2026.
 - 11) CFE Committee meeting held on 05.03.2026.
 - 12) Submission of the additional information vide mail dated 17.03.2026.
 - 13) CFE Committee meeting held on 28.03.2026

1. In the reference 1st cited, the industry has obtained Consent for Establishment (CFE) to setup Waste to Energy plant of 12 MW by using raw material Refused Derived Fuel Fluff (processed non Hazardous Municipal Solid Waste) and auxiliary flues such as Bio mass and coal upto 15 % in an area of 27.36 Acres at Sy. No.122,123 and 125 , Yacharam (V&M), Rangareddy District, with a project cost of Rs. Rs.134.6 Crores with a validity period upto 26.07.2016. Subsequently, the industry vide reference 2nd cited has obtained Auto renewal of CFE validity period Extension upto 24.07.2020.
2. The industry vide reference 3rd cited, has obtained CFE Amendment of the Board for change of address as below as the industry has purchased the 20.64 Acres :
"M/s. Sri Venkateswara Green Power Projects Ltd, Survey numbers 122, 123, 124 & 125, 105/7/1,2, 105/11/1, 105/8, 105/8/1 & 105/10/1, 105/11/4, 105/10/4 & 105/8/3 of Yacharam Village & Mandal, Rangareddy District"
3. The Board vide reference 4th cited has issued Amendment to the CFE order prescribing the Emission Standards as per the Solid Waste Management Rules, 2016 to the Incinerators/Waste to Energy Plants.
4. The industry vide reference 5th cited has obtained CFE expansion for Generation of Electrical Power (Fuel: Refuse Derived Fuel Fluff (processed Non-Hazardous Municipal Solid Waste) from 12 MW to 14 MW.
5. The industry vide reference 7th cited, has obtained CFE Extension of the Board for the CFE Expansion order dt. 11.03.2020 from 10.03.2025 to 30.06.2028.
6. The industry vide reference 6th cited, submitted request for extension of CFE validity for a period upto 30.06.2028 stating certain critical technical & financial dependencies

and agreements pending with Government departments. Also the proponent has requested to remove existing Sy.Nos. 122, 123 & 125 of Yacharam Village & Mandal according to Project requirements. The EE, RO Rangareddy submitted report vide reference 6th cited.

7. The Board after careful scrutiny as per the recommendation of the CFE Committee vide reference 7th cited issued extension of validity of CFE Expansion order (dated 11.03.2020, for a period upto 30.06.2028,

Further, the Name and address of the Industry Amended as follows with a condition that all other conditions stipulated in the CFE order dt. 11.03.2020 would remain same.

"M/s. Sri Venkateswara Green Power Projects Ltd., Sy.No. 105/7/1,2, 105/11/1, 105/8, 105/8/1 & 105/10/1, 105/11/4, 105/10/4 & 105/8/3, Yacharam (V&M), Rangareddy District (20.64 Acres)"

8. In the reference 8th cited, the industry has submitted letter on 18.02.2026 and requested for amendment for CFE of the Board for inclusion of additional raw material (i.e., Segregated Municipal Solid waste (MSW) / Processed non-hazardous municipal solid waste) for generation of electrical power using Refuse Derived Fuel (RDF) – 14 MW.

Existing details of project:

S.No	Name of Product	Capacity
1	Electrical Power (Fuel: Refuse Derived Fuel Fluff) (processed Non-Hazardous Municipal Solid Waste).	14 MW

Proposed: (Request for Amendment):

S.No	Name of Product	Capacity
1	Electrical Power (Fuel: Refuse Derived Fuel Fluff, processed Non-Hazardous Municipal Solid Waste / Segregated Municipal Solid waste (MSW)).	14 MW

9. The EE, RO-RR1 has forwarded the industry's request vide reference 9th cited informing that the project has not yet started construction activity.

10. The Board sought further clarifications and requested for submission of details of the process undertaken, and also clarification regarding the clause (iii) mentioned under Article (6) of the Agreement dated 24.06.2025, which states that SVGPPPL shall handle the processing of MSW including disposal of rejects. Accordingly, it was requested to submit the agreement wherein GHMC accepts Inerts/rejects from SVGPPPL for disposal at the secured sanitary landfill at Jawaharnagar, along with the agreements executed with ULBs for supply of Municipal Solid Waste to the SVGPPPL site.

11. The proponent vide letters dated 28.02.2026 and 17.03.2026 submitted a comprehensive Revised EMP report including all necessary Pollution Control Measures and Environmental Safeguards, Concession agreement of GHMC & M/s SV GPPL dated 10.11.2010, Tri-party MSW supply Agreement between GHMC, SVGPPPL & M/s. HiMSW dated 24.06.2025 for supply of MSW by HiMSW to SVGPPPL's Yacharam site and also submitted the clarifications informing that the SVGPPPL does not procure RDF or processed MSW from external authorized MSW processing facilities. Hence, it is informed that Segregation and processing of MSW is undertaken within the project premises and all required facilities are available within the plant, including:

- I. Segregation facility
- II. Storage facility
- III. Processing facility
- IV. Leachate management system & Environmental Safe Guards.

Hence, clarified that the that only non-recyclable, segregated combustible fraction of MSW will be utilized for power generation at their facility in Compliance with Rule 21(1), Rule 21(2) and Rule 21(3) which states: "High calorific wastes shall be used for co-processing in cement or thermal power plants" And "Only non-recyclable, segregated combustible fraction of solid waste shall be used for waste to energy plants."

Further clarified that as per Concession Agreement (CA), Article (7) the Inerts/Rejects would be disposed to common SLF of GHMC in Sy. No. 67 of Malkapur (V), Choutuppal (M) in Nalgonda District as per G.O. M.S. No. 617/Rev/assn. iv dated 12.07.2010 on their own cost up to a distance of 30 Km from the SVGPPL site. Hence conformed that no inerts/rejects disposed in Yacharam site.

12. The issue was reviewed in the CFE meeting held on 28.03.2026, The Committee noted that the proponent has substantially modified the original proposal and is now proposing to establish segregation and processing facilities for Municipal Solid Waste (MSW) within the premises to derive combustible/non-hazardous fraction and recyclables, without proposing to produce RDF pellets or procure RDF from external sources. In view of the change in project scope, the Committee observed that a fresh Consent for Establishment (CFE) application is required. However, the proponent requested the Committee to consider issuance of CFE amendment to facilitate entering into agreements with Government authorities and assured that a fresh CFE application, along with revised Environmental Management Plan (EMP) and approved site layout in accordance with the modified proposal, will be submitted. Hence, after detailed discussions the committee has recommended to issue CFE Amendment with stringent conditions 1). To submit fresh CFE application with realized project cost and revised site layout approvals in align with the revised EMP, 2). To submit a revised Concession Agreement (CA)/ Tri-party Agreement with GHMC & HIMSWS for accepting the Inerts/Rejects disposal at Secured sanitary land fill Jawaharnagar only duly Amending Article (7) of CA by the time of fresh CFE application submission and along with all other necessary conditions.

13. The Board, after careful scrutiny of the application, verification report of Regional Officer, Industries replies dated 28.02.2026 & 17.03.2026, Concession Agreement dated 10.11.2010, Tri-Party Material supply Agreement dated 24.06.2025 and as per the recommendations of the CFE Committee, in its meeting held on 28.03.2026, hereby issues CONSENT FOR ESTABLISHMENT FOR AMENDMENT of the CFE Expansion order dated 11.03.2020 to M/s. Sri Venkateswara Green Power Projects Ltd., for inclusion of Segregated Municipal Solid Waste (MSW) / Processed Non-Hazardous Municipal Solid Waste as raw material for generation of electrical power (14 MW), under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under subject to the following conditions:

1. The Para (1) shall be read as follows :

- In the reference 8th cited, the industry has submitted letter on 18.02.2020 and 28.02.2026 requested for amendment for CFE of the Board for setting up of Segregation facility, Storage facility, Processing facility of MSW-700 TPD for deriving non-recyclable waste having calorific value above 1500 Kcal/kg for captive purpose as fuel in the Waste to Energy power plant and other products AND to install Moving grate incineration Technology for generation of Electric Power as follows :

S.No	Name of Product and Rejects	Capacity
1	Electrical Power	14 MW
2	Deriving of Non-Hazardous Municipal Solid Waste / Segregated Municipal Solid waste (MSW) of Only non-recyclable, segregated combustible fraction of having calorific value of 1500 Kcal/kg from MSW for captive use as fuel	560.49 TPD
3	By products:	
	Metals	11.79 TPD
4	Rejects	
	Disposal of Trommel and Heavy Rejects shall be as per revised concession Agreement with GHMC Amending the Article (7) for accepting the rejects for	96.21 TPD

	disposal at Sanitary Landfill of Jawaharnagar dumpyard.	
5	Leachate Management	31.5 TPD
	Leachate Treatment plant capacity and to reuse within the premises	100 - 150 m ³ /day

2. Under Schedule – B

i. The Water Consumption under condition no. 1 shall be read as follows :

- The source of water is Borewell and the maximum permitted water consumption is 300 KLD as per the EMP submitted.

Sl. No.	Purpose	Quantity in KLD
1.	Boiler feed water	150 KLD
2.	Cooling System	20 KLD
3.	Ash Quenching	95 KLD
4.	Green Belt irrigation	20 KLD
5.	Floor Washing	10 KLD
6.	Domestic	15 KLD
	Total	300 KLD

2. Condition no. 2 shall be read as follows :

- (a) The proponent shall submit section-wise wastewater generation details and treatment units capacity along with section wise mode of treatment and disposal of leachate boiler, cooling tower & DM plant blown down at the time of submission of the fresh CFE application after completion and initialization of the project. Until such time, the existing wastewater generation details shall remain the same as stipulated in the CFE Expansion Order dated 11.03.2020.
- (b) And the leachate quantity shall be substituted as – 31.5 TPD.
- (c) The existing Treatment & Disposal remain same for the following sections until the submission of the Fresh CFE(Existing & Proposed):

Source of Effluent	Treatment Proposed	Mode of Final Disposal
RDF Plant Boiler Blow Down	---	ETP for treatment and disposed to onland irrigation
DM Plant and Cooling Bleed Off	---	
Domestic	---	Septic tank followed by soak pit.

3. Condition no.3 & 4 shall be read as :

- (a) **Leachate Management** : The industry shall provide a dedicated leachate collection system for collection of leachate generated from Municipal Solid Waste (MSW) reception, tipping floor, waste storage, processing areas, and refuse-derived fuel (RDF)/combustible fraction handling areas. All leachate shall be collected through impervious drains and routed to the Leachate Treatment Plant (LTP) without any leakage or stagnation.
- (b) **Leachate Treatment Plant (LTP)** :The industry shall install and operate a Leachate Treatment Plant (LTP) of adequate capacity- comprising suitable treatment units such as collection tank, equalization tank, pH adjustment, biological treatment (anaerobic/aerobic), clarification, filtration, and polishing units to meet prescribed standards under the Environment (Protection) Rules, 1986 and Solid Waste Management Rules, 2016 and amendments thereof.
- (c) **Effluent Treatment Plant (ETP)** : The industry shall provide an Effluent Treatment Plant (ETP) for treatment of trade effluents generated from plant operations including floor washings, ash handling systems, boiler blowdown, cooling tower bleed, and utility wastewater streams.

- (d) **Zero Liquid Discharge (ZLD)** : The industry shall achieve Zero Liquid Discharge (ZLD) within the plant premises. The industry shall provide adequate treatment and reuse systems, including advanced treatment/evaporation systems, if required, to ensure that no treated or untreated wastewater is discharged outside the premises. No treated or untreated wastewater shall be discharged outside the premises. Treated wastewater shall be reused for:
 - Ash handling systems
 - Greenbelt development and plantation
 - Dust suppression
 - Other permissible in-plant uses
 - (e) **Storm Water Management** : The industry shall provide a separate storm water drainage system completely segregated from leachate and effluent drainage systems.
 - Storm water drains shall be lined, properly graded, and well maintained.
 - Garland drains shall be provided around waste storage and processing areas.
 - Storm water from contaminated areas shall be routed to LTP/ETP.
 - Only uncontaminated storm water shall be allowed to leave the premises.
 - (f) **Impervious Flooring & Runoff Control** : All waste handling, tipping floor, RDF processing, ash handling, and leachate-prone areas shall be provided with impervious flooring with proper slope towards collection drains to prevent soil and groundwater contamination.
 - (g) **Storage & Handling Safeguards** : Leachate collection tanks and wastewater storage units shall be leak-proof, adequately sized, and provided with overflow prevention arrangements.
 - (h) **Monitoring & Record Maintenance** : The industry shall maintain a system for regular monitoring of treated waste water quality. log books of LTP/ETP operations and monitoring reports shall be submitted regularly.
 - (i) The Leachate Treatment Plant (LTP), Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP) shall be constructed and commissioned along with the commissioning of the activity. All the units of the LTP, ETP and STP shall be impervious and above ground level to prevent ground water and surface water pollution.
4. Condition no. 5 shall be read as :
- The industry shall restrict water consumption to the permitted quantity and shall maintain water meters at all major consumption points such as process operations, ash handling, utilities, and domestic usage. Daily water consumption records shall be maintained and made available for inspection.
5. **Air:** The condition no. 6 is Amended and shall be read as follows :
- (a) The Boiler capacity shall be read as 60 - 65 TPH
 - The industry shall install the following air pollution control equipments and comply with the following standards from the main sources of Air pollution i.e., processing and recovery facilities, Boiler stack emissions, fugitive dust, odour emissions from waste handling, D.G Sets,
 - i. Cyclone Separator
 - ii. Semi-Dry Lime Scrubber
 - iii. Activated Carbon Injection
 - iv. Bag Filter/Fabric Filter
 - v. Induced Draft Fan
 - vi. Stack (55-60 m height).

- (b) To control Acid gases pollutants, dioxins and furans, heavy metals, the scrubbers and bag filters shall be installed.
 - (c) The industry shall design and provide the combustion system to maintain temperature not less than 950°C, with a minimum flue gas residence time of 2 seconds.
 - (d) The industry shall provide an Online Continuous Emission Monitoring System (OCEMS) to the stacks attached to boilers for monitoring parameters such as Particulate Matter (SPM), SO₂, NO_x, HCl, and CO, and shall ensure connectivity to CPCB/TSPCB servers as per prescribed guidelines.
 - (e) The industry shall provide two Ambient Air Quality Monitoring (AAQM) stations in the up wind and down wind directions.
 - (f) The emission standards prescribed as per SWM Rules, 2016 mentioned under CFE Amendment order 22.11.2018 will remain same.
 - (g) The industry shall submit if any changes proposed or requested section-wise air emissions from processing and handling activities, including flue gas emissions from the Waste-to-Energy Moving grate incinerator boiler, auxiliary systems, ash handling areas, and fugitive emission sources, along with complete details of the Air Pollution Control Systems (APCS) proposed/installed, at the time of submission of the fresh Consent for Establishment (CFE) application after completion and initialization of the project.
 - (h) **Odour and Fly Control** : The industry shall implement, operate, and continuously maintain an effective odour and vector control system to prevent odour nuisance and fly breeding within and outside the plant premises. The industry shall comply with the following:
 - i. The waste receiving, storage, and handling areas shall be fully enclosed to prevent fugitive odour emissions.
 - ii. The MSW storage pit shall be maintained under negative pressure through an adequate ventilation system, and extracted air shall be routed to the combustion system/odour control system for treatment.
 - iii. Municipal Solid Waste (MSW) shall be processed on a continuous and time-bound basis, and prolonged storage of unprocessed waste shall be strictly avoided.
 - iv. Bio-enzymes, deodorizing agents, or equivalent odour neutralizing systems shall be regularly applied in waste handling, tipping floor, and processing areas.
 - v. The industry shall carry out regular cleaning, washing, and sanitation of waste handling areas, floors, equipment, and surroundings to prevent putrefaction and vector breeding.
 - vi. Adequate pest and fly control measures, including periodic fogging/spraying and housekeeping practices, shall be implemented.
 - vii. The industry shall ensure that no odour nuisance or vector nuisance is caused to surrounding habitations. In case of complaints, the industry shall immediately implement corrective measures as directed by TSPCB.
 - viii. A logbook for odour control measures, sanitation activities, and pest control operations shall be maintained and produced to Board officials during inspection.
6. **Solid/Hazardous Waste** : The condition no. 16 is Amended and shall be read as follows :
- (a) The industry has proposed disposal/utilization of solid wastes as detailed below:

Waste Type	Mode of Disposal
Bottom ash	Utilization in road construction/bricks

Waste Type	Mode of Disposal
Fly ash	Hazardous waste landfill
Recovered metals	Recycling through authorized recyclers
Organic waste	Composting

The industry shall submit detailed information on section-wise and quantity-wise generation of all solid wastes, including bottom ash, fly ash, recovered metals, organic waste, and any other by-products, at the time of submission of the fresh Consent for Establishment (CFE) application after completion and initialization of the project.

- (b) The industry shall submit a revised concession Agreement with GHMC Amending the Article (7) for accepting the Trommel and Heavy Rejects - 96.21 TPD disposal at Sanitary Landfill of Jawaharnagar dumpyard Disposal at the time of submission of the fresh Consent for Establishment (CFE) application after completion and initialization of the project.
- 7. The industry shall comply with the provisions of the Solid Waste Management Rules, 2016, as applicable, and shall also comply with the Solid Waste Management Rules, 2025, which have come into force with effect from 01.04.2026, wherever applicable, and any amendments thereof, and other environmental regulations issued by the Government of India from time to time.
- 8. The proponent shall ensure 1). To submit fresh CFE application with realized project cost and revised site layout approvals in align with the revised EMP and in align with the new SWM Rules, 2025 and with necessary changes if any, 2). To submit a revised Concession Agreement (CA)/ Tri-party Agreement with GHMC & HIMS W for accepting the Inerts/Rejects disposal at Secured sanitary land fill Jawaharnagar only duly Amending Article (7) of CA by the time of fresh CFE application submission.

All other conditions stipulated in the CFE order dated 25.07.2012, CFE Amendment order 22.11.2018, CFE Expansion order 11.03.2020 and CFE Extension order dated 20.06.2025 would remain same.

Sd/-
MEMBER SECRETARY

To/
✓ M/s. Sri Venkateswara Green Power Projects Ltd.,
Sy.No. 105/7/1,2, 105/11/1, 105/8, 105/8/1 &
105/10/1, 105/11/4, 105/10/4 & 105/8/3,
Yacharam (V&M), Rangareddy District.

// T.C.F.B.O//


Joint Chief Environmental Engineer