



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)/SE(IPC&RAC)/DE(IPC)/F.SVGPPL/D.No. ²⁰⁰⁸ /2026-27, Dt: 3.10.2026.
Sir,

Sub:- TGSPDCL - IPC - Petition seeking approval u/s 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 model PPA proposed to be entered into between TGSPDCL and the said company - Additional Information called for - Submission- Reg.

Ref:- Lr.No. E/F.No. 944603/D.No.617/26-27, Dt. 20.08.2026.

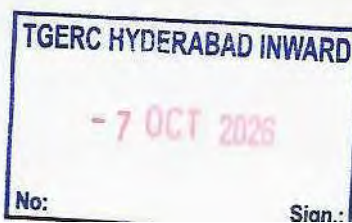
With reference to the communication cited above, wherein certain clarifications/documents have been called for in connection with the procurement of 14 MW power from M/s. SVGPPL's Municipal Solid Waste (MSW) based power project, TGSPDCL hereby submits the following point-wise clarification for kind consideration of the Hon'ble Commission.

1. The DPR submitted by TGSPDCL as part of additional information in the matter of according consent for the procurement of 14 MW power from M/s. SVGPPL plant of MSW on 30.05.2026 and the DPR submitted by M/s. SVGPPL on 25.06.2026 as part of tariff petition are different. TGSPDCL is directed to clarify which DPR was considered by TGREDCO for sanction/approval of the project.

Reply: TGSPDCL hereby submits the clarification issued by TGREDCO with regard to the DPR considered by TGREDCO for sanction/approval of the project in favour of M/s. SVGPPL, a copy of which is enclosed herewith.

2. Schedule-2, Schedule-3 and Schedule-5 do not correspond to the provisions of draft PPA submitted by TGSPDCL. TGSPDCL is directed to submit the draft PPA with relevant annexures.

Reply: With regard to the observation that **Schedule-2, Schedule-3 and Schedule-5** of the draft PPA do not correspond with the provisions of the draft PPA submitted by TGSPDCL, it is submitted that the draft PPA has been reviewed and the relevant schedules/annexures have been aligned with the provisions of the draft PPA.



Accordingly, the **revised draft PPA along with the relevant schedules and annexures** is submitted herewith for consideration of the Hon'ble Commission.

3. Article 8 of the draft PPA stipulates a term of 20 years from COD, whereas SVGPPPL's tariff petition adopts a 25-year project life for its tariff computations. TGSPDCL to submit the clarification regarding plant life.

Reply: It is submitted that Article 8 of the draft PPA provides for a contractual term of 20 years from the Commercial Operation Date (COD), in accordance with the provisions of the CERC (Terms & Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2024.

Accordingly, TGSPDCL clarifies that the proposed PPA term of 20 years has been considered in accordance with the aforesaid CERC Regulations.

4. Clause 1.8A of the draft PPA defines "Concession Agreement" as the agreement executed between GHMC and the Company for supply of Municipal Solid Waste, and Clause 1.35 defines "Tipping Fee" referring to Concession Agreement. The subsisting Concession Agreement has not been annexed as Schedule. TGSPDCL to submit the Concession agreement as an annexure to the draft PPA.

Reply: A copy of the Concession Agreement executed between GHMC and the Company is enclosed as an annexure to the revised draft PPA, as directed by the Hon'ble Commission.

In view of the above submissions and the documents enclosed herewith, TGSPDCL respectfully requests the Hon'ble Commission to consider the above clarifications and revised draft PPA along with the relevant annexures on record and requested to accord necessary approval.

Encl: As stated.

Yours faithfully,


Chief Engineer/ CPC&RAC

RECEIVED
CERC





తెలంగాణ పునరుద్ధరణ యోగ్య ఇంధన 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 no.TGREDCO/MSW/SVGPPL/2025-26 /802

Date:28.09.2026

To
The Chief Engineer,
TGSPDCL Corporate Office
6-1-50, Mint Compound,
Hyderabad-500004



Sir,

Sub: TGREDCO – MSW– Submission of clarification regarding consideration of DPR of
M/s.Sri Venkateswara Green Power Project Ltd – 14 MW Waste to Energy Power Plant
– Reg.

- Ref: 1) Letter no. SVGPPL/TSREDCO/150426/01., Dated.15.04.2026 received from M/s.Sri Venkateswara Green Power Project Ltd.
2) This office amendment order dated.22.05.2026 issued to M/s.Sri Venkateswara Green Power Project Ltd.
3) Lr.No. Nil., Dated.25.06.2026 M/s.Sri Venkateswara Green Power Project Ltd. (SVGPPL) has submitted latest DPR to this office.
4) Lr.No. CE(IPC7 RAC)/SE (IPC& RAC)DE(IPC) F.SVGPPL/D.No.1776/ 2026-27 Dated.16.09.2026 received from TGSPDCL.
5) Approval of VC & MD at E-File No. 414321 vide Note # 154.

With reference to the 1st cited above, It is to submit that, M/s.Sri Venkateswara Green Power Project Ltd. (SVGPPL) had requested for amendment in Agreement and Proceedings as they propose to use Segregated Municipal Solid Waste (MSW) (Processed non-hazardous municipal solid waste) as an additional raw material for electric power generation for their 14 MW Power Project.

Accordingly, through vide 2nd ref. cited this office has issued an Amendment Order to M/s.Sri Venkateswara Green Power Project Ltd. (SVGPPL) permitting the same.

Through 3rd ref. cited., M/s.Sri Venkateswara Green Power Project Ltd., has submitted a latest copy of Detailed Project Report (DPR) to this office on 25.06.2026 towards setting up a 14 MW Waste-to-Energy (WtE) Power Project.

In view of the above, it is to inform that, the revised DPR submitted by M/s.Sri Venkateswara Green Power Project Ltd. Vide 3rd ref. cited has been considered by this office.

This is submitted for favour of information.

Sd/-

VC & Managing Director

// Forwarded by Order //

L.S.V.
General Manager

DETAILED PROJECT REPORT ON

14 MW Waste to Energy Power Project

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

Yacharam Village & Mandal,
Ranga Reddy District, Telangana.



SHREEKARI
Business Consulting & Research Pvt. Ltd

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

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

SHREEKARI

Business Consulting & Research Pvt. Ltd

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Abbreviations

WTE:	Waste-to-Energy
SWM:	Solid Waste Management
MSW:	Municipal Solid Waste
MSWM:	Municipal Solid Waste Management
TGPCB:	Telangana Pollution Control Board
TGSPDCL:	Telangana Southern Power Distribution Company Ltd
TGNPDCL:	Telangana Northern Power Distribution Company Ltd
TGERC:	Telangana Electricity Regulatory Commission
GHMC:	Greater Hyderabad Municipal Corporation
TGTRANSCO:	Transmission Corporation of Telangana 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
CR:	Current Ratio
CAGR:	Compound Annual Growth Rate
CC:	Cash Credit
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 (MSW) 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 Solid Waste) to the project site for a concession period of 30 years from commissioning of the plant. As per the terms of the Agrcement, 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 TGREDCO (formally TNREDCL) (Telangana 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.**
- ☞ **TGREDCO** 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:** **TGREDCO** 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, **TGREDCO** issued final sanction vide Letter No: **TNREDCL/MSW/VGR/2016-17**, Yacharam (V&M), Ranga Reddy District.
- ☞ **05.08.2017:** Telangana Southern Power Distribution Company Limited (**TGSPDCL**) formerly **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 **TGSPDCL**.
- ☞ **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 (RDF based) 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 (**TGTRANSCO**).
- ☞ **30.04.2019:** **SVGPPPL** has submitted an application of **TGREDCO** (formally **TSREDCO**) for enhancement of capacity from 12 MW to 14 MW.

- ☞ **08.05.2019:** **TGREDCO** 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:** **TGREDCO** 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:** **TGREDCO** 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 (RDF based) Power project permission from Transmission Corporation of Telangana Limited, Vidyutsoudha, Hyderabad vide Lr. No: CE/Comml&RAC/SE/Comml/DE/Comml/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.
- ☞ **11.03.2020:** **SVGPPPL** obtained Consent for Establishment from Telangana Pollution Control Board through Order No: 127/TSPCB/CFE/RO-RR-i/HO/MSW/2012.
- ☞ **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. Presently company is under process of amendment of Concession Agreement. The delay happens due to sudden outbreak of COVID 19 pandemic worldwide and country wide lock down since March 2020 onwards.
- ☞ Presently company seeking term loan for the proposed project to the tune of **Rs 277.24 Cr** out of total Project Cost of **Rs 396.06 Cr** and remaining through Promoters Contribution of **Rs 118.82 Crores**.

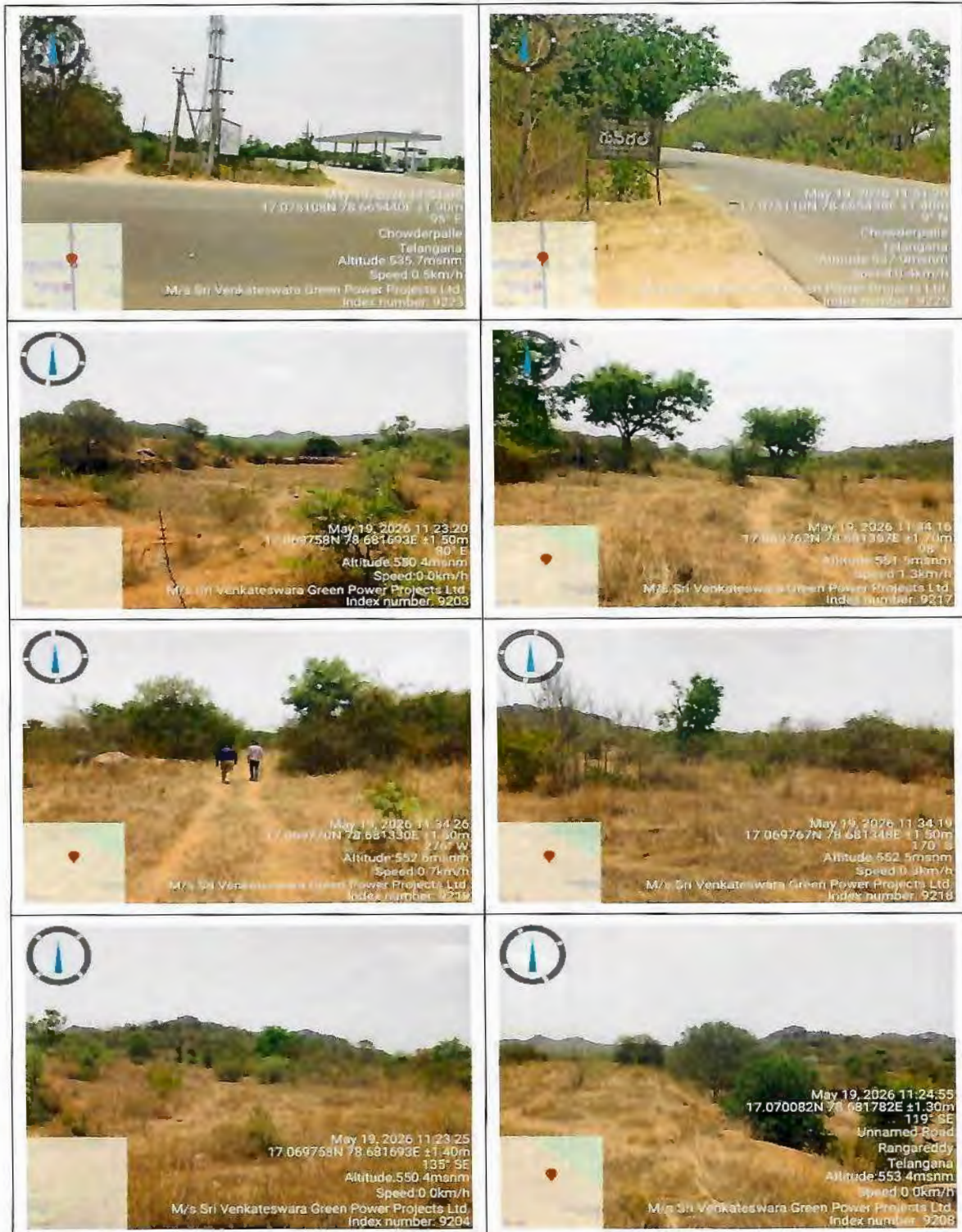
Project Site Visit

Table 01: Details of Site Visit		
Sl. No	Date of Site Visit	19.05.2026
	Company Name	Sri Venkateswara Green Power Projects Limited (SVGPPPL)
1	Registered Office	P.No.252-A, Lotus Pond Road, MLA Colony, Road No. 12, Banjara Hills, Hyderabad, Khairatabad, Telangana, 500034
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 Ac. 20-19 Gts.
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	2 Members
10	Name	1. Mr. Vishnu Vardhan (Technical Engineer) 2. Mr. B. Sai babu (Civil Engineer)
11	Nature of Area	Industrial
	Location Advantage	Distance (K.M)
	Nagarjuna Sagar Highway	02
	Yacharam	05
	L.B. Nagar	42
	Ibrahimpatnam	18

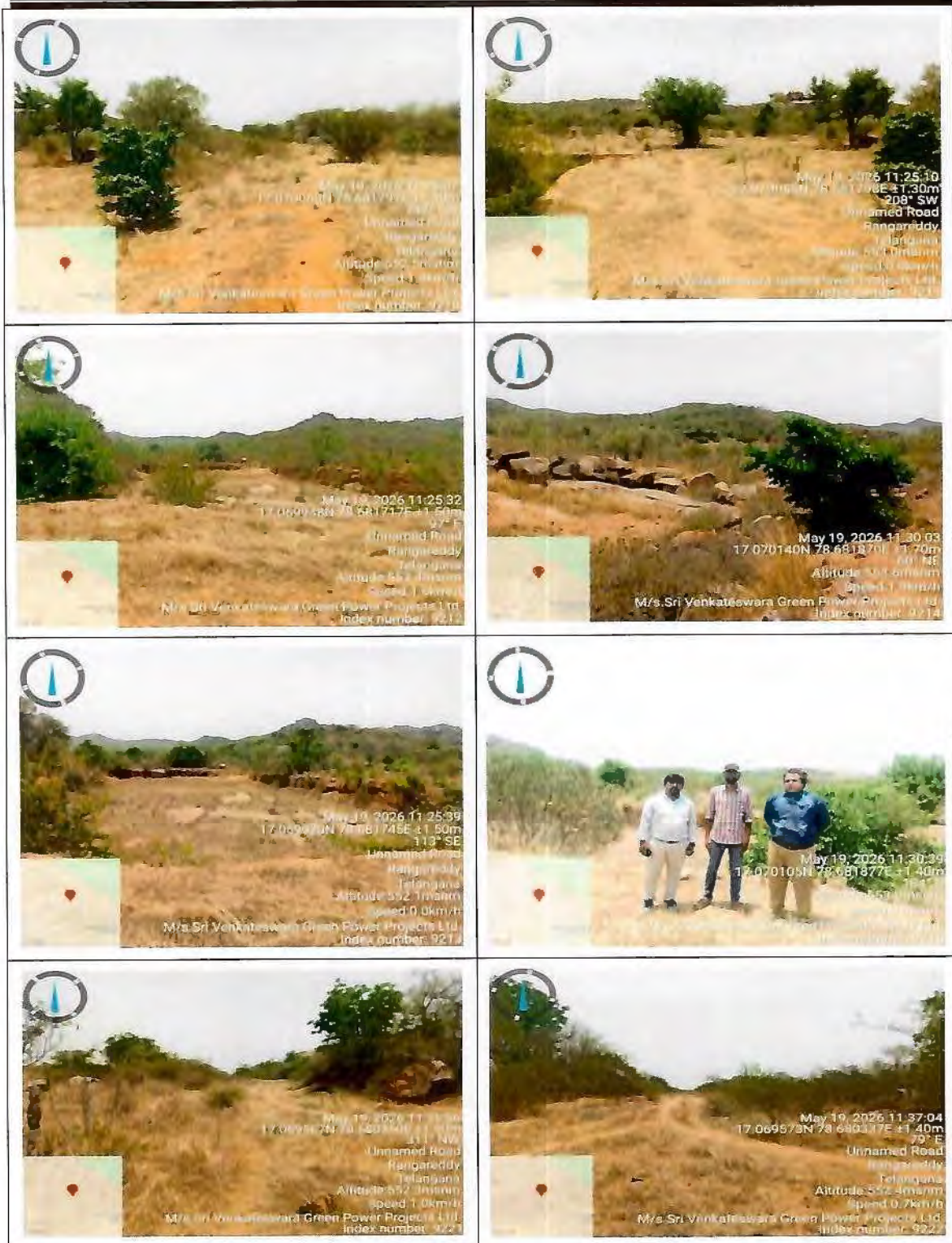
Table 01: Details of Site Visit																
	ORR Exit No.12	29														
	MGBS	50														
	Begumpet Airport	62														
	Rajiv Gandhi International Airport	52														
12	Status of the unit	Only Empty Rock Land														
13	Control Building Type	Factory Shed and RCC														
14	Ownership of office/factory /works/Project Site	100% to SVGPPL														
15	Land Allotted/Purchased	Purchased Ac 20.19 Gts for total Site Area. The details are as follows														
		<table><tr><th>Details of Land</th><th>Area (Ac-Gts.)</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>20-19</td></tr></table>	Details of Land	Area (Ac-Gts.)	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	20-19
		Details of Land	Area (Ac-Gts.)													
		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	20-19															
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	Not available presently as the factory construction work has not been started as of now.														
22	Fire protection devises															
23	First aid box															
24	Sanitation status															
25	Power back up															
26	Names/Sign Board															
27	Electricity Line															

Table 01: Details of Site Visit		
28	Water for Commercial Purposes	Presently, the company has only carried out excavation of the pit area at the project site and completed certain site clearance works.
29	Movement of Vehicles	
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	Gungai Reserve Forest
	South Side	Others Private Land
	East Side	Others Private Land
	West Side	Others Private Land

Site visit status as on 19.05.2026



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



132/33 Kva Yacharam (Takkalapally) Substation



KRISHNA WATER PIPELINE



DUE DILIGENCE REPORT

We have carried out Online Search of the Documents file of **M/S SRI VENKATESWARA GREEN POWER PROJECTS LIMITED** on **19-05-2026** 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.27.00 Crores
9	Paid up Capital (Rs)	Rs. 25.77 Crores
10	Number of Members (Applicable in case of company without Share Capital)	0
11	Date of Incorporation	07/09/1999
12	Registered Address	P.No.252-A, Lotus Pond Road, MLA Colony, Road No. 12, Banjara Hills, Hyderabad, Khairatabad, Telangana, 500034
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

Table 02: DUE DILIGENCE REPORT

17	Suspended stock exchange	-
18	Date of last AGM	22-09-2025
19	Date of Balance Sheet	31-03-2025
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 non exclusive 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.

Table 02: DUE DILIGENCE REPORT

		4. To establish, appoint regulate and 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 issuing or subscribing for or guaranteeing the sub-subscription and issue of shares, stock, debenture stock or other
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Table 02: DUE DILIGENCE REPORT

		securities such industry or undertaking. 7. To apply for, purchase or otherwise acquire any patents, brevets 'D' invention, processes, copyrights, trademarks, 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.
	Annexure-I	List of Directors
	Annexure-II	Index of Charges
	Annexure-III	Directorship of Other Companies
	Annexure-IV	Share Holding Pattern

Annexure I: List of Directors/Signatory Details

DIN/ DPIN/ PAN	Full Name	Designation	Date of Appointment
00973086	VENKATESWARA REDDY KOVURI	Managing Director	07/09/1999
00973161	SATYA VENKATA NAGA LEELA KUMARI TUKIVAKALA	Director	07/09/1999
07766539	KOVVURI RAHUL REDDY	Additional Director	09/08/2025

Annexure II: Index of Charges

Charge Id	Assets under charge	Charge Amount	Date of Creation	Date of Modification	Status
No Records Found					

ANNEXURE III: DIRECTORSHIP OF OTHERQA COMPANIES

DIN : 00973086

Name: VENKATESWARA REDDY KOVURI

Sr. No	CIN/FCRN	Company Name	Company Status	Designation	Original Date of appointment	Date of Appointment at Current Designation
1	U26999CT2020PTC010469	HIGH TECH SUPER CEMENT & STEEL PRIVATE LIMITED	Active	Additional Director	13-08-2021	13-08-2021
2	UI5143CT1997PTC012218	MANGAL SPONGE AND STEEL PRIVATE LIMITED	Active	Director	20-02-2021	30-09-2024

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

List of Associated LLPs

Sr. No	LLPIN	LLP Name	LLP Status	Designation	Original Date of appointment	Date of Appointment at Current Designation
1	ACF-7664	RAPRI INNOVATION LLP	Active	Designated Partner	-	28/02/2024

DIN : 00973161

Name: SATYA VENKATA NAGA LEELA KUMARI TUKIVAKALA

Sr. No	CIN/FCRN	Company Name	Company Status	Designation	Original Date of appointment	Date of Appointment at Current Designation
1	U40109TG1999PLC109481	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED	Active	Director	07/09/1999	07/09/1999

DIN : 07766539

Name: KOVVURI RAHUL RAEDDY

Sr. No	CIN/FCRN	Company Name	Company Status	Designation	Original Date of appointment	Date of Appointment at Current Designation
1	U50402AP2020PTC115162	ROYAL PETRO PARK PRIVATE LIMITED	Active	Director	24/11/2021	24/11/2021
2	U24230TG1999PTC031720	SRI GAYATHRI DRUGS PRIVATE LIMITED	Active	Director	16/02/2024	30/09/2024
3	U40109TG1999PLC109481	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED	Active	Additional Director	09/08/2025	09/08/2025
4	U62013TS2025PTC197092	FUELISTIC INNOVATIONS PRIVATE LIMITED	Active	Director	16/04/2025	16/04/2025
5	U47300TS2024PTC188654	RR AURAFUEL PRIVATE LIMITED	Active	Director	21/08/2024	21/08/2024
6	U24230TG1999PTC031720	SRI GAYATHRI DRUGS PRIVATE LIMITED	Active	Additional Director	16/02/2024	16/02/2024

ANNEXURE IV: SHAREHOLDING PATTERN OF THE COMPANY

Table 10: Sharing Holding Pattern of the Company		
S. No.	Name	Shareholding %
1	Kovvuri Venkateswara Reddy	35.49%
2	KVR & Family	24.36%
3	KVR & his Associates	40.14%
	Total	100.00%

1. Project at a Glance

Table 03: Project at a Glance	
Company Name	SRI VENKATESWARA GREEN POWER PROJECTS LIMITED
Registered Address	The registered office of the company located at P.No.252-A, Lotus Pond Road, MLA Colony, Road No. 12, Banjara Hills, Hyderabad, Khairatabad, Telangana, 500034.
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. Mr Venkateswara Reddy Kovuri 2. Mrs Satya Venkata Naga Leela Kumari Tukivakala 3. Mr Kovvuri Rahul Reddy
Products/ Services	Power Generation from Municipal Solid Waste with a capacity of 14 MW
Current Project	SVGPPPL has entered into an agreement with Greater Hyderabad Municipal Corporation (GHMC) to setup 14 MW Waste to Energy (WTE) power project with MSW processing facility in Hyderabad. Currently, SVGPPPL has seeking Term Loan of Rs. 277.24 crore (70% of Project Hard Cost) for the subject project out of Total estimated Capital Outlay of Rs. 396.06 Crore.
Market Segment	Waste to Energy
Project cost & Means of Finance	

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

Table 03: Project at a Glance

Project Cost	Rs. 396.06 Crore
Promoter Contribution	Equity: Rs. 118.82 Crore (30.00%)
Term loan	Rs 277.24 Crores (70.00%)
Disbursement of TL	24 Months starting from September, 2026 to August, 2028
Moratorium period TL	12 Months from COD i.e. starting from September, 2028 to August, 2029
Repayment TL	180 Months i.e. Months Staring from September, 2029 to August, 2044
Door to door period	216 Months starting from September, 2026 to August, 2044
Working Capital Limit	Rs. 14.35 Crore in FY 29
Rate of Interest	TL- 10.71% WC-11.96%

2.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 70:30 Ratio
2. Term loan considered is at Rs. 277.24 Crore at an interest rate of 10.71%
3. Disbursement of both the term loan shall be done in 24 Months starting from September, 2026 to August, 2028.
4. Interest on Working Capital Loan: 11.96%
5. Loan Repayment Period: 180 Months i.e. Months Staring from September, 2029 to August, 2044.
 - ☞ Disbursement: 24 Months i.e. starting from September, 2026 to August, 2028.
 - ☞ Moratorium Period: 12 Months from COD i.e. starting from September 2028 to August, 2029.
 - ☞ Door to Door Period: 216 Months starting from September, 2026 to August, 2044.
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**

Revenue are projected based on the following assumptions

- ☞ Working days per year 365 days
- ☞ Working hours per days 24 hours
- ☞ Working Days per Month 30 Days
- ☞ **Plant Load factor (PLF)**
 - FY 2029-30: 65.00%
 - FY 2030-31 : 75.00%

FY 2031-32 Onwards: 75.00%

Note: These load factors are achievable comfortably

11. Plant Life: 20 Years
12. Operating and Maintenance Cost: 5.00% on Capital Investment and 5.72% Year on Year escalation
13. 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.
14. Sales price: Based on the latest tariff order by Telangana Electricity Regulatory Commission, (TGERC), Hyderabad OP No: 14 of 2020 Dated: 18.04.2020 applicable to the company.

Description	Unit	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	FY 42	FY 43	FY 44	FY 45
Fixed Tariff	Rs/Unit	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24	12.24
Variable Tariff	Rs/Unit	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Total Tariff	Rs/Unit	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32
Tariff Escalation	YOY																	

Revenue Generation: The proposed Waste-to-Energy (WtE) plant is designed to process **700 MT/day of MSW** and generate **14 MW** of power. The revenue projections are based on an installed capacity of 14 MW with an annual generation factor of **1,000 MU per MW**, resulting in an installed generation capacity of **122.64 MU per annum**.

For FY29, the plant is assumed to operate at a **Plant Load Factor (PLF) of 65%**, generating **79.72 MU** of gross electricity. After accounting for **15% auxiliary power consumption**, the net exportable energy is estimated at **67.76 MU**. From FY30 onwards, the plant is projected to stabilize and operate at a **PLF of 75%**, resulting in a gross generation of **91.98 MU** and net generation of **78.18 MU** annually. The details are as follows

Table 05: Revenue Calculation																		
Description	Unit	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	FY 42	FY 43	FY 44	FY 45
MSW Processing Capacity	MT/Day	700	700	700	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	14	14	14
No. of Units per MW	MU	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Installed Capacity – Generation	MU	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	122.64	122.64	122.64	122.64
PLF		65%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
Gross Generation	MU	79.72	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98	91.98
Auxiliary Consumption	15%	11.96	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80
Net Generation	MU	67.76	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18	78.18
Sensitivity	100%																	
Working days		210	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
Tariff		12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32	12.32
Revenue		48.03	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09

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

- O&M expenses 1 month



- Receivables 1.50 month equivalent to sale of electricity calculated on normative PLF
- Maintenance of Spares @15.00% of the capital cost escalated at 5.00% per annum

Table 06: Working Capital Assessment																		
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	FY 42	FY 43	FY 44	FY 45
Months of Operation	Months	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Current Assets																		
O & M	1.00	1.98	2.09	2.21	2.34	2.47	2.62	2.76	2.92	3.09	3.27	3.45	3.65	3.86	4.08	4.31	4.56	4.82
Receivables	1.50	10.29	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
Maintenance Spares 15% of O&M	15.00%	2.08	3.77	3.98	4.21	4.45	4.71	4.98	5.26	5.56	5.88	6.22	6.57	6.95	7.35	7.77	8.21	8.68
Total		14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
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	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	0.00	0.00	0.00
WC Gap		14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
WC loan limit	100%	14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
WC loan		14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
WC margin		0.00																
Interest	11.96%	1.00	2.00	2.04	2.09	2.13	2.18	2.23	2.28	2.34	2.40	2.46	2.52	2.59	2.67	2.75	2.83	2.92

O&M Expenses

The annual Operation and Maintenance (O&M) expenses for the proposed 14 MW Waste-to-Energy power plant have been estimated at 6% of the project cost of Rs 396.06 crore. Accordingly, the base O&M expense for the first year of operation (FY29) is estimated at Rs 25.12 crore, considering the applicable operational period during the year. The details are as follows



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

Table 07: O&M Expenses																			
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	FY 42	FY 43	FY 44	FY 45
Project cost			396.06																
O&M Expenses	%		6%																
O&M YOY Escalation	%			5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%
Base O & M Cost		0.00	13.86	25.12	26.56	28.08	29.68	31.38	33.18	35.08	37.08	39.20	41.45	43.82	46.32	48.97	51.77	54.73	57.87
O&M Expenses of Transmission Line	Rs 5 lakhs /PM		0.35	0.63	0.67	0.71	0.75	0.79	0.84	0.89	0.94	0.99	1.05	1.11	1.17	1.24	1.31	1.38	1.46
Total O&M expenses			14.21	25.76	27.23	28.79	30.43	32.18	34.02	35.96	38.02	40.19	42.49	44.92	47.49	50.21	53.08	56.12	59.33

Profitability

Table 08: Profit 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	FY 42	FY 43	FY 44	FY 45
Revenue	48.03	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09
PBDIT	33.33	60.45	58.95	57.36	55.69	53.93	52.06	50.09	48.01	45.81	43.48	41.03	38.43	35.69	32.79	29.73	26.49
PBT	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
PAT	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
Net Income	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
PAT/Sales	8.93%	12.30%	12.61%	13.02%	13.32%	13.51%	13.58%	13.53%	13.35%	13.03%	12.56%	5.69%	3.76%	2.61%	1.41%	12.22%	10.63%
PBT/Sales	8.93%	12.30%	12.61%	13.02%	13.32%	13.51%	13.58%	13.53%	13.35%	13.03%	12.56%	11.94%	11.15%	10.19%	9.04%	19.77%	17.84%



3. Detailed Project Report

3.1 Management Analysis

3.1.1 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 P.No.252-A, Lotus Pond Road, MLA Colony, Road No. 12, Banjara Hills, Hyderabad, Khairatabad, Telangana, 500034

The Company is promoted by Mr. K. Venkateswar Reddy, Mrs. Satya Venkata Laga leela Kumari Tukivakala, and Mr Kovvuri Rahul Reddy. 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

3.1.2 Current Project

SVGPPL 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.

The Company will set up an integrated waste to energy plant with a capacity of 14 MW of power. SVGPPL 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.

3.1.3 Directors Profiles

As per ROC (Registrar of Companies), 28.05.2026 Company has 3 experienced directors on its board. The profiles are as follows

Table 09: 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, Manthena Gardens, Rajahmundry (Urban), East Godavari, Andhra Pradesh -533101	Managing Director	54	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

Table 09: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
					estate firm and a rerolling mill. Presently, he is completely involved in the operations of SV Green.
2	Mrs. Tukivakala Satya Venkata Naga Leela Kumari PAN NO: ACRPT4712B D.O.B-02.12.1951 Father Name: Venkata Reddy Karri AADHAR NUMBER: 533342364188 Address: 86-2-3/1, S.V Reddy Street, Manthena Gardens, Rajahmundry (Urban), East Godavari, Andhra Pradesh -533101	Director	74	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 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.
3	Mr. Kovvuri Rahul Reddy PAN NO: ELLPK4661M D.O.B: 17-10-1994				Mr. Kovvuri Rahul Reddy is a dynamic, innovation-driven leader with a strong academic foundation and diverse sectoral experience spanning Fuel, Pharmaceuticals, Infrastructure, and Power Projects.

Table 09: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
	Father Name: K. Venkateswara Reddy AADHAR NUMBER: 4296 0508 3792 Address: Flat no 303 Pavani palazzo, mla colony, banjarahills, VTC: Khairatabad, PO: Banjara Hills, District: Hyderabad, State: Telangana, PIN Code: 500034				He holds a Master of Science in Information Systems from the University of Colorado, where he gained deep expertise in enterprise systems, data management, digital transformation, and process optimization. With hands-on exposure across multiple high-growth industries, Mr. Rahul Reddy brings a unique multidisciplinary perspective that enables him to understand complex operational, regulatory, and commercial environments. His experience equips him to drive technology adoption, operational excellence, and sustainable business expansion. In his leadership capacity, he is responsible for: • Setting strategic direction and growth roadmap • Overseeing daily business operations • Ensuring financial discipline and operational efficiency • Strengthening corporate governance and compliance • Creating long-term, sustainable value for all stakeholders

Table 09: Board of Directors and their Experience

S. No	Name	Designation	Age	Qualification	Total Experience & Field of experience
					Entrepreneurial Leadership & Role in ATD – Fuel Delivery Solutions Mr. Rahul Reddy is a key architect behind the strategic vision and growth of ATD, the flagship brand promoted by M/s Royal Petro Park Ltd, a Government of India-registered startup. ATD is positioned as a transformational fuel logistics brand delivering pure, untouched diesel from Government depots directly to customer locations through a digital-first delivery model.

3.1.4 Share Holding Pattern

Existing Shareholding Pattern

- ☞ Authorized Capital: Rs. 25.00 Crore
- ☞ Paid up Capital: Rs. 22.5 Crore
- ☞ Face Value/Share: Rs. 10

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

Table 10: Sharing Holding Pattern of the Company

S. No.	Name	Shareholding %
1	Kovvuri Venkateswara Reddy	35.49%
2	KVR & Family	24.36%
3	KVR & his Associates	40.14%
	Total	100.00%

3.1.5 Vision, Mission and Goal

Table 11: 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

3.1.6 SWOT Analysis

Table 12: 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 TGERC order, enabling consistent operations and also MNRE also recommended for WTE plants are must run projects.
➤	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 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 TGSPDCL 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-

Table 12: SWOT Analysis

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.

3.1.7 Key Team Members Profile

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

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
1	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 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.
2	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

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		related to the Managing Director Mr. K.Venkateswara Reddy.
3	Mr. D. Vijaya Kumar Rajn	✓ Mr. D. Vijaya Kumar Raju, aged about 54 years, is a seasoned entrepreneur and business leader with over 25 years of diversified experience across manufacturing, agribusiness, waste management, human resource services, skill development, outsourcing, and infrastructure support services. He holds a Master's Degree in Human Resource Management (MBA) from Andhra University and has successfully established and managed multiple business ventures across various sectors. ✓ Throughout his professional career, Mr. Raju has demonstrated strong capabilities in building scalable businesses, managing large operational teams, executing government and private sector contracts, and maintaining effective institutional and stakeholder relationships. His extensive experience in project management, operations, and business development has enabled him to successfully execute projects for government bodies, urban local authorities, and private sector organizations. ✓ Presently, Mr. Raju serves as the Managing Director of HR Square Private Limited, a diversified business process outsourcing and infrastructure services company. Under his leadership, the company is engaged in a wide range of activities including Municipal Solid

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		Waste Management Projects, Manpower Outsourcing Services, Facility Management Services, Handling and Logistics Contracts, Skill Development Programs, and IT & Software Support Projects. The company has established a strong track record in executing large-scale service contracts and infrastructure-related assignments. ✓ In addition, Mr. Raju is a Director of Sumathi Seeds Private Limited, an established agricultural seed processing company engaged in seed processing and toll manufacturing services for reputed agribusiness companies. The company has business associations with leading organizations such as Crystal Crop Protection Limited, Nath Bio-Genes, and Caspian Seeds, among others.
4	Mr. Chandra Sekhar Pogula	✓ Mr. Chandra Sekhar Pogula is a highly accomplished business professional with nearly 40 years of experience in Sales & Distribution, Key Account Management, Modern Trade, B2B, B2C, B2B2C, and E-Commerce sectors. He holds a Post Graduate Diploma in Sales & Marketing Management (PGDM) from Bharatiya Vidya Bhavan, Hyderabad, and a Bachelor of Science degree from Osmania University, Hyderabad. ✓ Over the course of his career, Mr. Pogula has built extensive expertise in developing and executing strategic business plans focused on revenue growth, market penetration, customer relationship management, and profitability

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		enhancement. He has held leadership positions with reputed multinational organizations and has successfully managed operations across diverse geographies including India, Gulf Countries, Middle East, East Africa, Latin & Central America, USA, Caribbean Islands, and the Far East, overseeing business activities across more than 48 countries. ✓ Mr. Pogula possesses significant experience in the Fast-Moving Consumer Goods (FMCG) and Internet of Things (IoT) sectors. During his professional career, he has worked closely with globally recognized brands including Glaxo, Nestlé, Bristol Myers, Tiffany, SuperMax, Nettlelinx, and ZYETL, among others. His expertise spans sales strategy, distribution management, customer development, market expansion, brand positioning, and business transformation initiatives. ✓ His core strengths include strategic planning and implementation, new product development, market and competitive analysis, profit and loss management, customer experience management, brand development, change management, project management, multi-channel distribution management, and business continuity planning. He has demonstrated a proven ability to establish strategic partnerships, optimize operational efficiencies, improve

Table 13: Key Technical Person & their Profile

SL.No	Key Person	Description
		profitability, and drive sustainable business growth across multiple markets. ✓ Mr. Pogula is also recognized for his strong leadership and team-building capabilities, having successfully led multicultural and geographically diverse teams across several international markets. His extensive exposure to global business practices, coupled with his expertise in sales, marketing, and operational management, provides valuable strategic guidance and managerial strength for the proposed project. ✓ With his vast industry experience, proven leadership capabilities, and extensive network across domestic and international markets, Mr. Chandra Sekhar Pogula is expected to play a key role in strengthening the company's business development initiatives, market outreach, operational efficiency, and long-term growth prospects
5	Mr Phani Nukala	Mr Phani Nukala is a multidisciplinary management professional with over 14 years of experience across renewable energy infrastructure, healthcare technology, operations, strategic partnerships, growth strategy, and project financing. Phani Nukala has been actively associated with the development, execution, and strategic expansion of businesses operating at the intersection of infrastructure, technology, sustainability, and public impact. He is an MBA alumnus of the Indian School of Business (ISB) and has additionally pursued an

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		Executive Program in Project Management from IIT Roorkee. He also holds a qualification in Business Administration and Management under the New Zealand Qualifications Authority (NZQA) framework, which included international academic and internship exposure. Also, and pursued extensive immersion program at NUS as part of the ISB curriculum. Currently serving as Director & Management Representative at SV Green Power Projects Limited, he has been closely involved with the development of the 14 MW Municipal Solid Waste-to-Energy project in Hyderabad from its inception stage. His role has involved regulatory coordination, project financing discussions, debt syndication, stakeholder management, international collaborations, EPC coordination, and strategic implementation planning. He has worked extensively with government departments, regulatory authorities, consultants, financial institutions, and Japanese investment partners including Takara Leben and Kuni Umi Asset Management as part of the project's technical and financial collaboration framework. He also played a key role in the debt sanction process with Power Finance Corporation and various institutional stakeholders. In addition to the infrastructure sector, Phani is currently associated with HEAPS Health Solutions as Vice President - Strategic Partnerships & Customer Relations, where he is involved in healthcare

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		transformation initiatives focused on AI-led population health management, post-discharge care coordination, chronic care management, and healthcare cost optimization. His work includes building strategic partnerships with healthcare stakeholders, insurers, hospitals, corporates, and government institutions while contributing to the design and implementation of technology-enabled healthcare management frameworks aimed at improving patient outcomes and reducing avoidable healthcare expenditure. ✓
6	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

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		nominal maintenance cost with safe operation. ✓ 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

Table 13: Key Technical Person & their Profile

Sl.No	Key Person	Description
		nominal Maintenance cost at optimum efficiency levels (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).

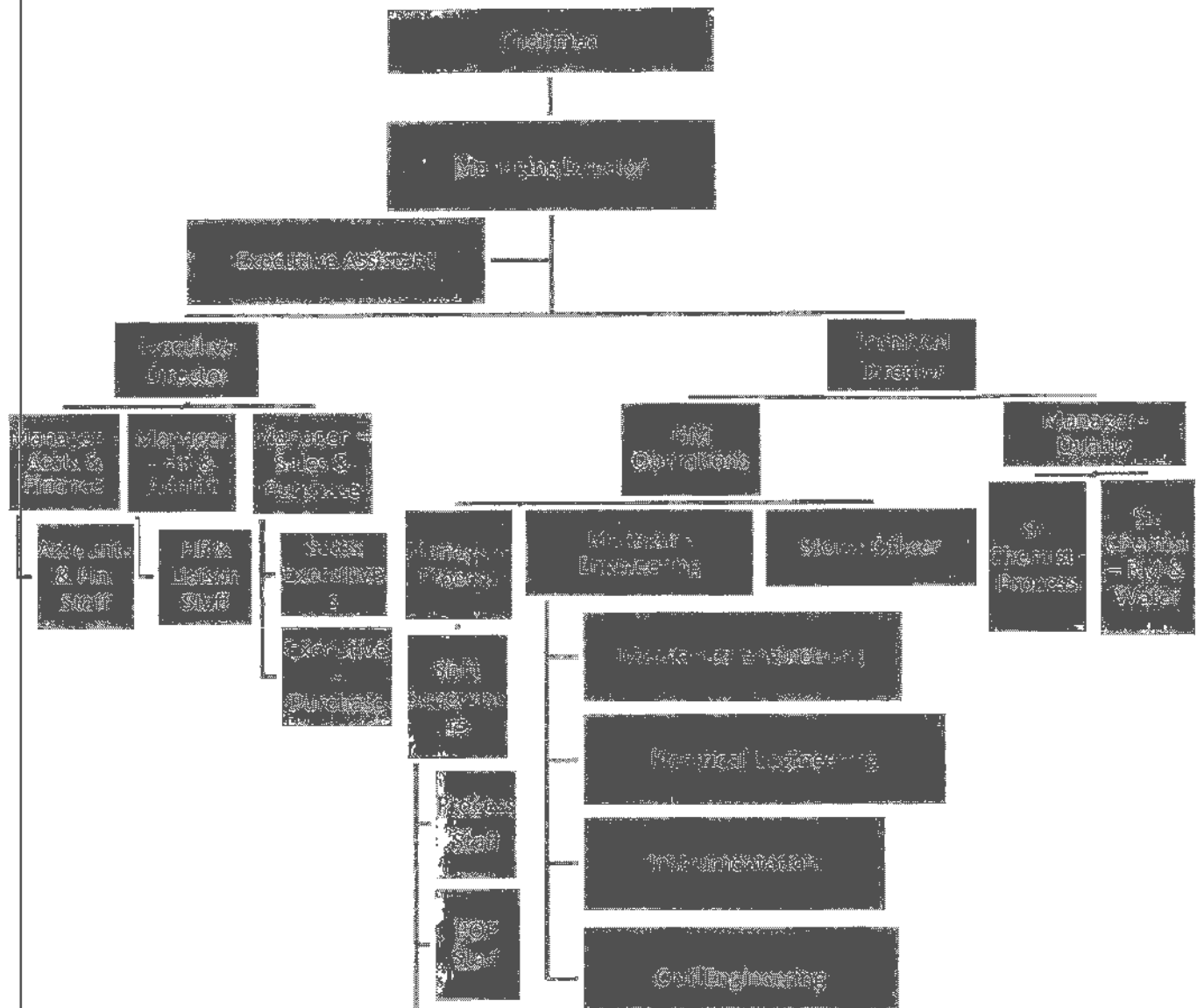
3.1.8 Manpower requirement

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

Table 14: 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

3.1.9 Organization Chart

The organization structure of the Company is as under



3.2 Technical Analysis

3.2.1 Location & Benefit

The unit is located at Ranga Reddy District, Telangana

The site is located at Survey no 121, 122, 123 & 124, 105/11, 10, 8 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 15: 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 16: 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.
Site Approach	The site approach road is a 40 ft. village kutcha road which connects the Nagarjuna Sagar Road at 2.0 km from site. The Kutcha Road needs to be developed to facilitate smooth transit of GHMC MSW vehicles to site.

Table 16: Project Site Observation	
Parameters	Observations
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. SVGPPPL 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	The proposed project site is well connected to the major municipal solid waste (MSW) collection and transfer infrastructure of Greater Hyderabad. The Imlibun Transfer Station, located at a distance of about 50 km from the project site, is envisaged as one of the potential sources for supply of municipal solid waste by GHMC. In addition, the Nagole and Uppal Transfer Stations, located in the eastern part of Hyderabad, can also serve as supplementary transfer points for transportation of MSW to the project site, thereby strengthening feedstock availability and logistics flexibility. These transfer stations form part of GHMC's integrated waste collection and transfer network and handle substantial quantities of municipal waste generated from surrounding urban areas. The availability of multiple transfer stations within the collection network provides operational comfort and reduces dependence on a single source of waste supply.

Distances from Project Site

Table 17: 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:

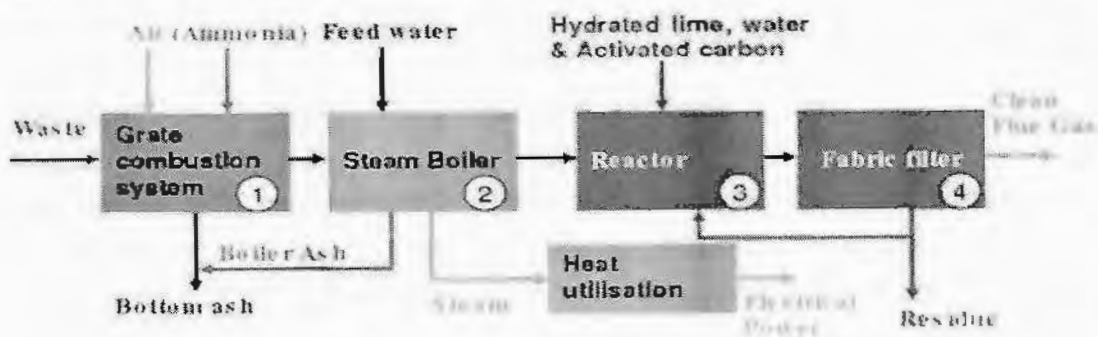
The promoters of the SVGPPL had already acquired **Ac.20-19Gts.** of factory land at Sy. No's: 105/7/1/2, 105/8, 105/8/1, 105/8/3, 105/10/1, 105/10/4, 105/11/1 & 105/11/4. The details are as follows

Table 18: Details of Converted Land	
Details of Land	Area (Ac-Gts.)
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	20-19

3.2.2 Technology

SVGPPL 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



3.2.3 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:

The Waste-to-Energy (WtE) process commences with the receipt of approximately **700 TPD (Tonnes Per Day)** of municipal solid waste (MSW) at the processing facility. The incoming waste is subjected to primary segregation to recover recyclable materials such as metals, plastics, glass, and other non-combustible fractions. Subsequently, the waste is processed through a trommel screen, which segregates the material based on particle size and composition. The combustible fraction obtained after segregation and trommel screening, hereinafter referred to as **Segregated Waste**, consists predominantly of high-calorific-value materials suitable for energy recovery. Inert materials and other unsuitable fractions are removed and disposed of through approved channels.

Out of the total 700 TPD of MSW received, the quantity of Segregated Waste recovered after processing is utilized as feedstock for the Waste-to-Energy plant. The Segregated Waste is conveyed to the combustion system, where it is burned under controlled conditions in a specially designed furnace. The thermal energy released during combustion is used to generate high-pressure steam in a boiler, which in turn drives a turbine-generator set for electricity generation. The flue gases generated during the process are treated through a comprehensive air pollution control system comprising particulate removal, acid gas neutralization, and emission control units to ensure compliance with applicable environmental standards. Bottom ash generated from the combustion process is further processed for recovery of recyclable metals, while residual ash is disposed of in accordance with regulatory requirements. By converting the combustible fraction of approximately 700 TPD of municipal solid waste into useful energy, the project contributes to sustainable waste management, resource recovery, and significant reduction in landfill dependency.

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

Table 19: 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
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

3.2.4 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 area, 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 leachate from the storage pit; the leachate water is then further sent to the treatment system. Later, a

grab crane would be used for feeding 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 weighment 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 innersts 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/water. 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 to 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. Clarifiers 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.

3.2.5 Clearances & approvals required

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

Table 20: Statutory Permission and Clearances			
S. No	Approval / Clearance	Concerned Agency	Status
1.	Sanction of Project	TGREDCO (formerly TSREDCO)	Obtained vide letter dated 15.10.2016.
2.	Environmental Clearance	Telangana Pollution Control Board (TGPCB)	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 plant (up to capacity of 15 MW) do not attract the provision of EIA notification 2006.
3.	Consent to establish	TGPCB	Obtained consent to establish vide order through Order No: 32/TGPCB/MSW/HO/2026-64, dated: 13.04.2026
4.	NOC from Gram Panchayat	-	Obtained
5.	Construction of Power transmission line	TGSPDCL (formally TSSPDCL)	

Table 20: Statutory Permission and Clearances

S. No	Approval / Clearance	Concerned Agency	Status
6.	Airport Authority Clearance	Airports Authority of India (AAI)	Obtained
7.	Permission for water Usage	-	Yet to be obtained.
8.	Factory Licenses	-	Obtained through Lr. No.D. Dis.B3/RR/548/2020, dated: 03.02.2020
9.	Grid Connectivity	Southern Power Distribution Company of Telangana Limited(TGSPDCL)	Obtained vide Lr No. CE(IPC&RAC)/DE(IPC)/F. SVGPPPL/D.No 120/2026-27 dated on 15-04-2026
10.	Municipal Waste	GHMC (Greater Hyderabad Municipal Corporation)	Obtained by Lr.No.147/AC(H&S)/SWM/GHMC/2019, dated: 03.10.2019
11.	Model draft PPA	Telangana Southern Power Distribution Company (TGSPDCL)	Lr. No.CGM (IPC & RAC)/SE(IPC)/F. SVGPPPL/D. No 704/17, dated: 05.08.2017

3.2.6 Utilities

The Project Proponent, vide letters dated 28.02.2026 and 17.03.2026, submitted a comprehensive Revised Environmental Management Plan (EMP) Report incorporating all necessary pollution control measures and environmental safeguards. The submissions also included the Concession Agreement dated 10.11.2010 executed between Greater Hyderabad Municipal Corporation (GHMC) and M/s Sri Venkateswara Green Power Projects Limited (SVGPPPL), as well as

the Tripartite MSW Supply Agreement dated 24.06.2025 executed among GHMC, M/s Hyderabad Integrated Municipal Solid Waste Limited (HiMSW) and M/s SVGPPPL for the supply of Municipal Solid Waste (MSW) to the SVGPPPL facility located at Yacharam.

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

S. No.	Name of Product / By-product / Reject	Capacity
1	Electrical Power	14 MW
2	Derivation of non-hazardous Municipal Solid Waste (MSW) / segregated Municipal Solid Waste comprising only the non-recyclable combustible fraction having a calorific value of approximately 1,500 kcal/kg , for captive use as fuel	560.49 TPD
3	By-products: Metals	11.79 TPD
4	Rejects: Trommel rejects and heavy rejects. Disposal to be undertaken in accordance with the revised Concession Agreement with GHMC, including the amendment to Article 7 permitting disposal at the sanitary landfill located at the Jawaharnagar Dumpyard.	96.21 TPD
5	Leachate Generation	31.50 TPD
6	Leachate Treatment Plant (LTP) Capacity with reuse of treated leachate within the project premises	100–150 m ³ /day

Water Consumption is revised and shall read as follows:

The source of water for the project is **borewell water**, and the maximum permitted water consumption is **300 KLD (Kilolitres per Day)**, in accordance with the provisions and estimates contained in the **Environmental Management Plan (EMP)** submitted for the project.

Sl. No.	Purpose	Quantity (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 Use	15 KLD
	Total	300 KLD

The Project Proponent shall submit section-wise details of wastewater generation, treatment unit capacities, and the corresponding treatment and disposal methodology for leachate, boiler blowdown, cooling tower blowdown and DM plant blowdown at the time of submission of the fresh **Consent for Establishment (CFE)** application following completion and commissioning of the project. Until submission and approval of such fresh CFE application, the wastewater generation details specified in the **CFE Expansion Order dated 13.04.2026** shall continue to remain applicable.

The quantity of leachate generated from the project shall be considered as **31.5 TPD**.

(c) The existing wastewater treatment and disposal arrangements applicable to the respective sections of the project shall continue unchanged until submission and consideration of the fresh **CFE (Existing and Proposed)** application, including the corresponding section-wise wastewater generation, treatment and disposal details.

Source of Effluent	Treatment Proposed	Mode of Final Disposal
RDF Plant Boiler Blowdown	-	Treated effluent to be utilized for on-land irrigation
DM Plant and Cooling Tower Bleed-off	-	Treated effluent to be utilized for on-land irrigation
Domestic Sewage	-	Septic Tank followed by Soak

Conditions No. 3 and 4 are revised and shall read as follows:

(a) Leachate Management

The industry shall establish and maintain a dedicated leachate collection system for the collection of leachates generated from Municipal Solid Waste (MSW) reception areas, tipping floors, waste storage areas, processing areas and Refuse Derived Fuel (RDF)/combustible fraction handling areas. All leachate generated within the facility shall be collected through impervious drains and conveyed to the **Leachate Treatment Plant (LTP)** in a manner that prevents leakage, seepage, overflow or stagnation.

(b) Leachate Treatment Plant (LTP)

The industry shall install, operate and maintain a **Leachate Treatment Plant (LTP)** of adequate capacity comprising suitable treatment units, including collection tanks, equalization tanks, pH adjustment systems, biological treatment units (anaerobic and/or aerobic), clarification units, filtration units and polishing units, or equivalent treatment systems. The treated leachate shall comply with the applicable standards prescribed under the **Environment (Protection) Rules, 1986**, the **Solid Waste Management Rules, 2016**, and amendments thereto.

(c) Effluent Treatment Plant (ETP)

The industry shall install, operate and maintain an **Effluent Treatment Plant (ETP)** of adequate capacity for treatment of trade effluents generated from plant operations, including floor washings, ash handling systems, boiler blowdown, cooling tower bleed-off and utility wastewater streams. The treated effluent shall conform to applicable environmental standards and shall be managed and disposed of only through approved treatment, reuse and disposal arrangements.

(d) Zero Liquid Discharge (ZLD)

The industry shall achieve and maintain **Zero Liquid Discharge (ZLD)** within the project premises. Adequate treatment, recovery and reuse systems, including advanced treatment and/or evaporation systems, wherever required, shall be

provided to ensure that no treated or untreated wastewater is discharged outside the project premises.

No treated or untreated wastewater shall be released beyond the project boundary. Treated wastewater shall be reused within the premises for the following purposes:

- Ash handling systems;
- Greenbelt development and plantation activities;
- Dust suppression measures; and
- Other permissible in-plant applications.

(e) Storm Water Management

The industry shall provide a dedicated storm water drainage system completely segregated from leachate collection and effluent drainage systems.

- Storm water drains shall be lined, adequately graded and properly maintained;
- Garland drains shall be provided around waste storage, handling and processing areas;
- Storm water originating from contaminated areas shall be routed to the LTP and/or ETP for treatment;
- Only uncontaminated storm water shall be permitted to leave the project premises.

(f) Impervious Flooring and Runoff Control

All waste handling areas, tipping floors, RDF processing areas, ash handling areas and other leachate-prone locations shall be provided with impervious flooring and appropriate gradients directing runoff towards designated collection drains, thereby preventing contamination of soil, surface water and groundwater.

(g) Storage and Handling Safeguards

Leachate collection tanks, wastewater storage tanks and associated containment facilities shall be leak-proof, of adequate capacity and equipped with suitable overflow prevention and containment arrangements.

(h) Monitoring and Record Maintenance

The industry shall establish and maintain a system for regular monitoring of treated wastewater quality. Operational records, logbooks relating to LTP, ETP and STP performance, maintenance records and wastewater quality monitoring reports shall be maintained and made available to the competent regulatory authorities as and when required.

(i) Commissioning of LTP, ETP and STP

The **Leachate Treatment Plant (LTP), Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP)** shall be constructed, installed and commissioned simultaneously with the commissioning of the project activities. All treatment units, tanks, structures and associated facilities forming part of the LTP, ETP and STP shall be of impervious construction and located above ground level to prevent contamination of groundwater and surface water resources.

Air Pollution Control: Condition No. 6 is amended and shall read as follows:

(a) The boiler capacity shall be considered as 60–65 TPH (Tonnes Per Hour).

The industry shall install, operate and maintain the following **Air Pollution Control Equipment (APCE)** and comply with the applicable emission standards prescribed by the competent regulatory authorities for all major sources of air pollution, including processing and recovery facilities, boiler stack emissions, fugitive dust emissions, odour emissions from waste handling operations and Diesel Generator (D.G.) Sets:

- i. Cyclone Separator;
- ii. Semi-Dry Lime Scrubber;
- iii. Activated Carbon Injection System;
- iv. Bag Filter / Fabric Filter;
- v. Induced Draft Fan; and
- vi. Stack of minimum 55–60 metres height.

(b) Odour and Fly Control

The industry shall establish, operate and continuously maintain an effective odour management and vector control system to prevent odour nuisance, fly breeding and

related environmental impacts within and outside the project premises. Compliance with the following requirements shall be ensured:

- i. Waste receiving, storage and handling areas shall be fully enclosed to prevent fugitive odour emissions.
- ii. The Municipal Solid Waste (MSW) storage pit shall be maintained under negative pressure through an adequately designed ventilation system. Air extracted from the storage pit shall be routed to the combustion system and/or an approved odour control system for treatment.
- iii. Municipal Solid Waste (MSW) shall be processed on a continuous and time-bound basis. Prolonged storage or accumulation of unprocessed waste shall be avoided.
- iv. Bio-enzymes, deodorizing agents or equivalent odour-neutralizing systems shall be applied regularly in waste handling areas, tipping floors and processing areas.
- v. Regular cleaning, washing, sanitation and housekeeping activities shall be undertaken in waste handling areas, operational floors, equipment locations and surrounding areas to prevent putrefaction, odour generation and vector breeding.
- vi. Adequate pest management and fly control measures, including periodic fogging, spraying and other appropriate control practices, shall be implemented and maintained.
- vii. Operations shall be conducted in a manner that prevents odour nuisance, fly nuisance or other vector-related impacts to surrounding habitations. Upon receipt of any complaint, immediate corrective measures shall be implemented in accordance with directions issued by the Telangana State Pollution Control Board (TSPCB) or any other competent authority.
- viii. A logbook recording odour control measures, sanitation activities, pest control operations, inspection findings and corrective actions shall be maintained and produced before the regulatory authorities during inspections or whenever required.

Solid and Hazardous Waste Management: Condition No. 16 is amended and shall read as follows:

(a) The industry has proposed the utilization and disposal of solid wastes generated from the project in the following manner:

Waste Type	Mode of Disposal / Utilization
Bottom Ash	Utilization in road construction, brick manufacturing or other approved applications in accordance with applicable regulations
Fly Ash	Disposal at an authorized hazardous waste landfill facility in accordance with applicable statutory requirements
Recovered Metals	Recycling through authorized recyclers/reprocessing facilities
Organic Waste	Treatment through composting and utilization/disposal in accordance with applicable guidelines

3.2.7 Factory Layout Plan

SVGPPPL had already constructed the following area:

Table 26: 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
Parking Area (Required)	22%	2713.97
Parking Area (Proposed)	60%	7383.28
TOT LOT Area (Required)		7548.55
TOT LOT Area (Proposed)		21931.73

3.2.8 EPC Supplier

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.

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

Table 27: 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 - 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. 180 crore on FOR site basis inclusive of Transit insurance and GST

Table 27: EPC Contract Terms & Conditions

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.
Effective Date of Contract	<u>Effective Date of Contract</u> 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

Table 27: EPC Contract Terms & Conditions

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.
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3.2.9 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 28: 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/d×2Lines	52MW
Shanghai Laogang, China	750t/d×4Lines	60MW
Incheon, Korea	750t/d×2Lines	53MW
Tokyo Chuo, Japan	300t/d×2Lines	15MW
Falls Township, USA	750t/d×2Lines	53MW
Osaka Maishima, Japan	450t/d×2Lines	32MW

3.2.10 Function of Major Plant & Machinery

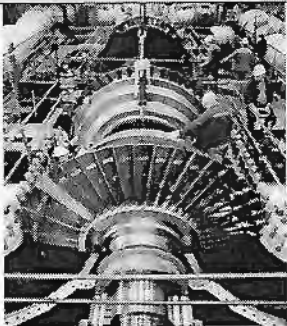
Table 29: Function of Major Plant & Machinery			
	Equipment		Function
1	Steam Turbine & generator		With the pressured steam released through the turbine chamber, the turbines will rotate. The electromagnetic arrangement with the turbine generates electric power
2	Boiler and Condenser & auxiliaries		Generates steam from water using the heat from the firing of the fuel
3	Grab Overhead Crane For Waste Handling		It consists of an overhead bridge crane equipped with a hydraulic or electro-hydraulic grab bucket designed to lift, mix, transfer, and feed waste into the incinerator or processing unit. • Automated or semi-automated operation with PLC/SCADA control. • Corrosion-resistant construction suitable for harsh waste bunker environments. • High lifting capacity and reliable grab mechanism. • Equipped with safety interlocks, overload protection, and anti-sway controls.

Table 29: Function of Major Plant & Machinery

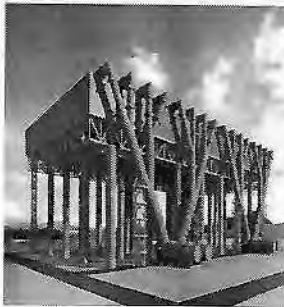
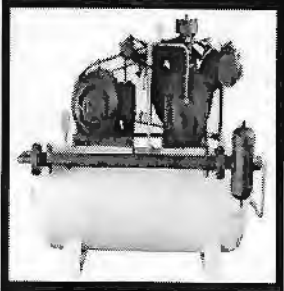
	Equipment		Function
4	Ash handling system		Boiler generates bottom ash and fly ash in the process of burning the fuel. The ash handling system - Removes bottom ash using the grate movement system - Removes the fly ash with the electrostatic precipitating system
5	Cooling tower		Cooling towers supplies 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

Table 29: Function of Major Plant & Machinery

	Equipment		Function
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
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.

3.2.11 Implementation Schedule

Presently Company has proposed an implementation schedule of 23-24 months from September 2026 and proposed commercial operations from 1st September, 2028 for the proposed 14MW Plant. The company is in process of starting land development work from September 2026 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 23-24 months.

The implementation schedule for the project is provided below:

Table 30: Proposed Implementation Schedule

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

Sl. No	Activity	Commencement	Completion
1	Acquisition of land		Already Acquired
2	Land Development Work	September 2026	September 2026
2	Civil Construction	October 2026	December 2027
3	Plant & Machinery	December 2026	March 2027
4	Delivery at site	April 2027	November 2027
5	Erection	October 2027	March 2028
6	Power Connection	May 2028	May 2028
7	Appointment of staff	July 2028	July 2028
8	Trial runs	August 2028	August 2028
9	Commercial productions	September 2028	

3.2.12 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 31: 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.

3.2.13 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%).

The India Municipal Solid Waste Management Market size is estimated at USD 7.85 billion in 2025, and is expected to reach USD 10.37 billion by 2030, at a CAGR of 5.72% during the forecast period (2025-2030).

The city has been divided into five zones namely, North, South, East, West, and Central zones. GHMC has strategically constructed 42 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.

3.2.14 Physical Characteristic of MSW

Table 32: 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
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 33: 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.

3.3 Commercial Analysis

3.3.1 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 in the world over the next 10-15 years, backed by its robust democracy and strong partnerships.

In FY 2025–26, India's economy is projected to maintain strong growth momentum. Real GDP (at constant prices) is estimated to rise by 7.6% to Rs. 3,22,58,000 crore from Rs. 2,99,89,000 crore in FY 2024–25, while Nominal GDP (at current prices) is expected to grow by 8.6% to Rs. 3,45,47,000 crore (US\$ 3.91 trillion). Real GVA is projected to increase by 7.7% to Rs. 2,94,40,000 crore, and Nominal GVA by 8.7% to Rs. 3,13,61,000 crore (US\$ 3.55 trillion). Quarterly performance also remained strong, with Q3 FY26 Real GDP reaching Rs. 84,54,000 crore and Nominal GDP rising to Rs. 90,91,000 crores, reflecting sustained economic expansion.

India continues to strengthen its startup ecosystem, with 126 unicorns and six new startups attaining unicorn status in 2025. However, the country's current account deficit widened in Q3 FY 2025–26 to Rs. 1.18 lakh crore (US\$ 13.2 billion), mainly due to a rise in the merchandise trade deficit, which increased to Rs. 8.34 lakh crore (US\$ 93.6 billion). At the same time, the services sector remained resilient, with the services surplus improving to Rs. 5.12 lakh crore (US\$ 57.5 billion), helping partly offset the higher trade imbalance.

India needs to increase its rate of employment growth and create 90 million non-farm jobs between 2025 and 2030's, for productivity and economic growth according to McKinsey Global Institute. Net employment rate needs to grow by 1.5% per year from 2025 to 2030 to achieve 8-8.5% GDP growth between 2025 and 2030.

India's foreign exchange reserves stood at US\$ 696.99 billion, as of US\$ 696.99 in May 2026, according to data from RBI.

(Source: www.ibef.org/economy)

3.3.2 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 waste 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 comprises 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 slaughterhouses, dairy, sugar, distillery, paper, oil extraction plant, starch processing and leather industries.
- ✓ **Non-Biodegradable organic** materials are organic 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

Biomethanation 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 biogas containing mostly methane (~60%), carbon dioxide (~40%) and other gases. Biomethanation 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 must 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 (500-1800°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 34: 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 meat (liquid waste)	182
5	Processing and preserving meat (solid waste)	13
6	Processing and preserving 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

Table 34: Potential of Waste to Energy Power Plant		
Sl. No	Sectors	Energy potential – MW
15	Tapioca Starch (solid waste)	15
16	Sugar (liquid waste)	49
17	Sugar press mud (solid waste)	200
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)

3.3.3 Indian Power Sector Market Size

Indian power sector is undergoing a significant change that has redefined the industry outlook. Sustained economic growth continues to drive electricity demand in India. The Government of India's focus on attaining 'Power for all' has accelerated capacity addition in the country. At the same time, the competitive intensity is increasing at both the market and supply sides (fuel, logistics, finances, and manpower).

As of FY 2025–26, India’s renewable energy mix is led by solar power at around 115–120 GW, followed by wind energy at about 50–52 GW, while biomass and small hydropower together contribute roughly 15–18 GW. Overall, the country’s installed renewable energy capacity has crossed 220–230 GW, and India is aiming to achieve 500 GW of non-fossil fuel capacity by 2030, reflecting its strong commitment to accelerating the clean energy transition.

As of FY 2025–26, India’s thermal capacity is about 240–245 GW, while renewable energy has grown to 220–230 GW. Hydropower stands at 46–48 GW and nuclear energy at 7–8 GW, indicating a steady shift toward a more diversified and cleaner energy mix.

(Source: IBEF)

3.3.4 Existing MSW based WTE Plants in India

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

Table 35: Existing Waste to Energy Plants in India					
State/UT	Company Name	Location	Installed Capacity (MW)	Raw Material Requirement (TPD)	Proposed Technology for Power Generation
Telangana	Ramky Enviro Engineers Ltd. (Under PPP with GHMC)	Jawaharnagar, Hyderabad	48	1,400	RDF Combustion
Telangana	Ramky Enviro Engineers Ltd. (Under PPP with GHMC)	Dundigal, Hyderabad	14.5	800	Mass Burn / RDF Combustion
Andhra Pradesh	Jindal ITF Urban Infrastructure Pvt. Ltd. (JITF Econolis)	Guntur, Andhra Pradesh	14	1,600	RDF Combustion

Table 35: Existing Waste to Energy Plants in India

State/UT	Company Name	Location	Installed Capacity (MW)	Raw Material Requirement (TPD)	Proposed Technology for Power Generation
Madhya Pradesh	Rewa Ultra Mega Power Private Ltd.	Rewa, Madhya Pradesh	6	600	RDF Combustion
Delhi	Jindal ITF Urban Infrastructure Pvt. Ltd. (JITF Econolis)	Timarpur, Okhla, New Delhi	16	2,000	RDF Combustion
Madhya Pradesh	Essel Infra	Jabalpur, Madhya Pradesh	9	600	RDF Combustion
Delhi	Ramky Group	Narela Bawana, New Delhi	24	2,000	RDF Combustion
Delhi	IL&FS Environment Infrastructure and Services Ltd.	Ghazipur, New Delhi	12	1,500	RDF Combustion
Maharashtra	Solapur Bio-energy Systems Pvt. Ltd. and Organic Recycling Systems Pvt. Ltd.	Solapur, Maharashtra	3	400	Bio-Methanation
Himachal Pradesh	Elephant Energy Pvt.	Shimla, Himachal	1.75	NA	NA

Table 35: Existing Waste to Energy Plants in India

State/UT	Company Name	Location	Installed Capacity (MW)	Raw Material Requirement (TPD)	Proposed Technology for Power Generation
	Ltd.	Pradesh			

(Source: MNRE, MOUD)

3.3.5 Existing MSW based WTE Plants in Telangana

Table 36: Existing MSW based WTE Plants in Telangana

Particulars	RDF Power Projects Pvt. Ltd.	Ramky Enviro / Hyderabad MSW Energy Solutions	Ramky Enviro Engineers Ltd.	Sri Venkateswara Green Power Projects Ltd.
Location	Bibinagar, Yadadri Bhuvanagiri District, Telangana	Jawaharnagar, Hyderabad, Telangana	Dundigal, Medchal-Malkajgiri District, Telangana	Yacharam, Ranga Reddy District, Telangana
Promoter	Private (PPP with GHMC)	Private (PPP with GHMC)	Private (PPP with GHMC)	Private
Installed Capacity (MW)	11	48 (24 MW operational + 24 MW Phase-II)	14.5	14 (revised from 12 MW)
Consumption of Raw Material per MW (Approx.)	700 TPD	1,400 TPD	800 TPD	700 TPD
Source of Raw Material	GHMC MSW / RDF	GHMC MSW / RDF	GHMC MSW	GHMC MSW / RDF
Technology Adopted	MSW-RDF Combustion	MSW-RDF Combustion	Mass Burn / MSW Combustion	MSW-RDF Combustion
Technology Source	Indigenous & Imported	Indigenous & Imported	Indigenous & Imported	Indigenous & Imported

Table 36: Existing MSW based WTE Plants in Telangana

Particulars	RDF Power Projects Pvt. Ltd.	Ramky Enviro / Hyderabad MSW Energy Solutions	Ramky Enviro Engineers Ltd.	Sri Venkateswara Green Power Projects Ltd.
Current Status (2026)	Plant completed earlier but remained stalled due to IL&FS issues; revival under consideration	24 MW operational; Phase-II (additional 24 MW) under commissioning, taking total capacity to 48 MW	Commissioned in 2024 and operational	Revised capacity approved; commissioning targeted by September 2026
Remarks	Not presently contributing significant power generation	Largest operational WtE facility in Telangana	Commercial operation commenced	Under development

(Source: MNRE&MAUD)

3.3.6 MSW Rules 2026

The Union Ministry of Environment, Forest and Climate Change has notified the Solid Waste Management (SWM) Rules, 2026, superseding the Solid Waste Management Rules, 2016. The rules have been notified under the Environment (Protection) Act, 1986 and will come into full effect from April 1, 2026. The revised rules integrate the principles of Circular Economy and Extended Producer Responsibility, with a specific focus on efficient waste segregation and management.

The rules provide for the levy of environmental compensation based on the 'Polluter Pays' principle for non-compliance, including cases of operating without registration, false reporting, submission of forged documents or improper solid waste management practices. The Central Pollution Control Board (CPCB) will prepare the relevant guidelines, while State Pollution Control Boards and Pollution Control Committees will levy the environmental compensation.

Four-stream Segregation of Solid Waste at Source

Four-stream segregation of solid waste at source has been made mandatory under the SWM Rules, 2026. Waste is required to be segregated into wet waste, dry waste, sanitary waste and special care waste.

Wet waste includes kitchen waste, vegetables, fruit peels, meat, flowers, etc., which shall be composted or processed through bio-methanation at the nearest facility. **Dry waste** comprises plastic, paper, metal, glass, wood and rubber, etc., and shall be transported to Material Recovery Facilities (MRFs) for sorting and recycling. **Sanitary waste** includes used diapers, sanitary towels, tampons and condoms, etc., which shall be securely wrapped and stored separately. **Special care waste** includes paint cans, bulbs, mercury thermometers and medicines, etc., which shall be collected by authorised agencies or deposited at designated collection centres.

Clear definition of Bulk Waste Generators

Bulk Waste Generators include entities with a floor area of 20,000 square metres or more, or water consumption of 40,000 litres per day or more, or solid waste generation of 100 kg per day or more. These include central and state government departments, local bodies, public sector undertakings, institutions, commercial establishments and residential societies, among others. Bulk Waste Generators must ensure that the waste generated by them is collected, transported and processed in an environmentally sound manner. This provision is expected to significantly reduce the burden on urban local bodies and promote decentralised waste management. The rules also allow for the levy of user fees on waste generators as per the bye-laws of local bodies.

The new rules also introduce **Extended Bulk Waste Generator Responsibility (EBWGR)**, under which bulk waste generators are made accountable for the solid waste generated by them. Bulk Waste Generators are required to process wet waste on-site as far as possible or obtain an EBWGR certificate where on-site processing is not feasible. This framework aims to strengthen waste management practices, as bulk waste generators account for nearly 30 per cent of total solid waste generation.

Faster Land Allocation for Waste Processing and Online Monitoring of Complete Solid Waste Management

The rules introduce graded criteria for development around solid waste processing and disposal facilities to facilitate faster land allocation. A **buffer zone** is to be maintained within the total area allotted for facilities having an installed capacity exceeding 5 tonnes per day. The CPCB will develop guidelines specifying the size of the buffer zone and permissible activities within it, based on the facility's capacity and pollution load. This is expected to expedite land allocation for waste processing facilities by States and Union Territories.

The rules also provide for the development of a **Centralised Online Portal** to track all stages of solid waste management, including waste generation, collection, transportation, processing and disposal, as well as biomining and bioremediation of legacy waste dump sites. Registration and authorisation of waste processing facilities with local bodies and State Pollution Control Boards or Pollution Control Committees shall be carried out online through the portal developed by the CPCB.

Submission of reports by solid waste processing facilities shall also be undertaken online through the portal, **replacing multi-step physical reporting**. The rules mandate **audits** of all waste processing facilities. Audit reports are required to be uploaded on the centralised online portal.

Duties of Local Bodies and Material Recovery Facilities (MRFs)

Under the revised rules, local bodies are responsible for the collection, segregation and transportation of solid waste in coordination with MRFs which may also act as deposition points for e-waste, special care waste, sanitary waste and other waste streams for further processing. MRFs have been formally recognised as facilities for **sorting** of solid waste.

Local bodies have been encouraged to generate carbon credits. In addition, the department responsible for sanitation and solid waste management in rural areas in the State or Union Territory has been mandated to give special attention to peri-urban rural areas.

Use of Refuse Derived Fuel (RDF) by Industries

The new rules define Refuse Derived Fuel (RDF) as fuel produced by shredding and dehydrating municipal solid waste with high calorific value, primarily consisting of non-recyclable plastic, paper and textiles. Industrial units, including **cement plants and waste-to-energy plants** that currently use solid fuel, have been mandated to replace it with RDF. The fuel substitution rate will increase from the current 5 per cent to 15 per cent over a six-year period.

Restrictions on Landfilling and Remediation of Legacy Waste Dumpsites

The rules further strengthen restrictions on landfilling and address the remediation of legacy waste dumpsites. Landfills have been strictly restricted to **non-recyclable, non-energy recoverable waste and inert material**. Higher **landfill fees** have been prescribed for local bodies for sending unsegregated waste to sanitary landfills. The landfill fee for unsegregated waste will be higher than the cost of segregation, transportation and processing of segregated waste. The rules also mandate **annual audits of landfills** by State Pollution Control Boards, with landfill performance to be overseen by District Collectors.

The rules mandate **mapping and assessment of all legacy waste dumpsites** and provide for **time-bound biomining and bioremediation**, with quarterly progress reporting through the online portal.

Solid Waste Management in Hilly Areas and Islands

Special provisions have been introduced for solid waste management in hilly areas and islands. These include the levy of **user fees on tourists and regulation of tourist inflow by local bodies based on available waste management facilities**. Designated collection points will be established for non-biodegradable waste in such areas. Local populations will be encouraged to hand over waste to local bodies and discouraged from littering. Hotels and restaurants will undertake decentralised processing of wet waste in accordance with norms prescribed by SPCBs or PCCs.

The rules also provide for the establishment of Central and State-level Committees for Effective Implementation. At the State level or Union territory level, a committee chaired by the Chief Secretary of the State or Head of Union Territory

Administration shall recommend measures to the Central Pollution Control Board for effective implementation of the rules.

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 into 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.

3.3.7 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

Telangana Clean and Green Energy Policy, 2025–2035 – Relevance for Waste-to-Energy Projects:

The **Telangana Clean and Green Energy Policy, 2025–2035**, notified by the Government of Telangana on 11 January 2025, provides a comprehensive framework for promoting renewable energy, energy storage, green hydrogen, biofuels, and **Waste-to-Energy (WtE)** projects across the State. The policy remains in force for a period of ten years and aims to enhance energy security, attract investments, create employment opportunities, and support sustainable development.

Key Policy Objectives

- Addition of **20,000 MW** of renewable energy and energy storage capacity by 2030.
- Promotion of clean and green energy technologies.
- Reduction of environmental pollution and greenhouse gas emissions.
- Attraction of investments and generation of employment opportunities.

- Development of circular economy solutions through waste utilization.

3.3.8 MNRE Policies

Key Policies Implemented by the Ministry of New & Renewable Energy (MNRE) in FY 2025-26:

The GST rate on renewable energy devices & parts for their manufacture was reduced from 12% to 5%, w.e.f. 22.09.2025. This will benefit domestic buyers: project developers, DISCOMs, rooftop solar installers, and captive users, by reducing the landed cost of solar equipment.

BCD exemption extended to capital goods for lithium-ion cell manufacturing for Battery Energy Storage Systems (effective 2 February 2026 to 31 March 2028). This will reduce the reliance on imported battery packs, primarily from China, strengthening India's Atmanirbhar Bharat goals in the energy sector.

Renewable Energy Equipment Import Monitoring System (REEIMS) portal, launched in October 2025 enabled real-time tracking of import patterns of critical renewable energy equipment, ensuring greater supply chain transparency, regulatory compliance, and prevention of misuse of imported components.

On the recommendation of MNRE, MoP has revised the RCO compliance framework under the Energy Conservation Act, 2001, superseding the earlier October 2023 notification. State-level RPO targets are subsumed within this unified RCO framework, eliminating dual obligations under the Electricity Act, 2003.

CERC (Sharing of Inter-State Transmission Charges and Losses) (Fourth Amendment) Regulations, 2025 issued on 26.06.2025 to provide ISTS waiver trajectory for RE and BESS projects, including provision of extension of waiver in case of delay on account of Force Majeure event including non-availability of transmission system or for reasons not attributable to the Renewable Energy Generator.

CERC (Connectivity and General Network Access to the Inter-State Transmission System) (Third Amendment) Regulations, 2025 introduced a non-solar hour connectivity framework. This will help in better utilization of the transmission network.

Guidelines for Virtual Power Purchase Agreements (VPPA) issued by CERC. VPPA provides an additional instrument to enable the Designated Consumers to meet their RCO targets.

Pilot Scheme for Contract for Difference (CfD) for RE projects of 500 MW capacity issued by MNRE. The CfD mechanism, a globally proven framework, guarantees stable revenues to renewable energy developers while preserving competitive, market-based price discovery.

The National Policy on Geothermal Energy was issued in September 2025, providing a comprehensive strategic framework to accelerate the exploration, development, and commercial utilization of geothermal resources across the country.

The Ministry has formally inaugurated the Jaiv-Urja Mitra programme under the Human Resource Development (HRD) framework. This strategic initiative is designed to bolster the renewable energy value chain by providing specialized technical training and capacity-building for key stakeholders, including biomass aggregators, feedstock depot operators, and Compressed Biogas (CBG) technicians.

The Ministry has issued the modified "Solar Systems, Devices, and Components Goods Order, 2025" (Quality Control Order (QCO) 2025) via Gazette Notification dated 27th January 2025. This revised order supersedes erstwhile QCO, 2017 and incorporates the latest versions of Indian Standards for Solar PV Modules, Storage Batteries, and SPV Inverters. The order also provides standards for the determination of efficiency of SPV modules.

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

3.3.9 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.

3.3.10 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 37: Upcoming WTE Plants in India			
SL. No.	State	No. of Plants	Total Proposed capacity (MW)
1	Andhra Pradesh	11	85
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

Table 37: Upcoming WTE Plants in India

SL. No.	State	No. of Plants	Total Proposed capacity (MW)
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

Source: MNRE

3.3.11 Power Offtake Arrangement and Regulatory Framework

M/s Sri Venkateswara Green Power Projects Limited proposes to establish a **14 MW Municipal Solid Waste (MSW)-based Waste-to-Energy Power Project** as part of an Integrated Municipal Solid Waste Management Facility at Yacharam Village and Mandal, Ranga Reddy District, Telangana.

TGREDCO (Telangana Renewable Energy Development Corporation Limited) is the State Nodal Agency for the promotion and facilitation of renewable energy projects in Telangana. However, TGREDCO is not authorized to approve or execute Power Purchase Agreements (PPAs). The approval and execution of PPAs fall within the jurisdiction of the concerned Distribution Companies (DISCOMs) and are subject to the regulatory approval of the Hon'ble Telangana Electricity Regulatory Commission (TGERC), wherever applicable.

As per the submissions made before the Hon'ble TGERC, TGS Southern Power Distribution Company Limited (TGSPDCL) has expressed its intent to procure power generated from the proposed 14 MW MSW-based Waste-to-Energy Project to meet its Renewable Purchase Obligation (RPO) requirements, particularly under the non-solar renewable energy category.

TGSPDCL has proposed to enter into a long-term Power Purchase Agreement with M/s Sri Venkateswara Green Power Projects Limited for procurement of power from the project. The tariff for the project is proposed to be determined by the Hon'ble TGERC under Section 62 of the Electricity Act, 2003, based on a tariff petition to be filed by the project developer.

Further, TGSPDCL has sought approval from the Hon'ble TGERC under the relevant provisions of the Electricity Act, 2003 and the Telangana Electricity Reforms Act, 1998 for procurement of power from the proposed project. The proposed power procurement arrangement provides a strong market linkage for the sale of electricity generated from the project and enhances the prospects of securing long-term revenue streams, subject to regulatory approvals and execution of the PPA.

The Telangana Electricity Regulatory Commission, through the Renewable Power Purchase Obligation (Compliance by Purchase of Renewable Energy/Renewable Energy Certificates) Regulations, 2022, has prescribed progressively increasing Renewable Purchase Obligation (RPO) targets for obligated entities. The total RPO requirement has increased from 8.50% in FY 2022-23 to 13.00% in FY 2026-27, while the non-solar RPO requirement has increased from 1.00% to 2.00% during the same period.

The increase in non-solar RPO obligations is expected to create sustained demand for electricity generated from eligible renewable energy sources, including Waste-to-Energy projects. Accordingly, the proposed 14 MW MSW-based Waste-to-Energy Power Project is well positioned to support the renewable energy procurement requirements of distribution utilities such as TGSPDCL.

Considering the proposed power procurement by TGSPDCL, the increasing RPO obligations, and the supportive regulatory framework, the project has favorable prospects for long-term power offtake and revenue generation, thereby strengthening its overall commercial and financial viability.

Financial Year	Solar RPO (%)	Non-Solar RPO (%)	Total RPO (%)
2022-23	7.5	1	8.5
2023-24	8	1.25	9.25
2024-25	9	1.5	10.5
2025-26	10	1.75	11.75
2026-27	11	2	13

- ✓ As per the compliance status submitted by TGSPDCL under the **TSERC Renewable Power Purchase Obligation (RPO) Regulations, 2022**, the utility has consistently exceeded the prescribed **overall RPO targets** during FY 2022-23, FY 2023-24, FY 2024-25 and FY 2025-26 (up to Q3). However, a detailed analysis indicates that while the utility has significantly surpassed the prescribed **Solar RPO** obligations, it has fallen short of achieving the mandated **Non-Solar RPO** targets during the corresponding periods.
- ✓ The solar RPO compliance achieved by TGSPDCL stood at **13.79%, 14.83%, 16.05%, and 20.46%** against the prescribed targets of **7.50%, 8.00%, 9.00%, and 10.00%**, respectively, thereby demonstrating substantial over-achievement in the solar renewable energy segment. Consequently, the overall RPO compliance of the utility remained significantly above the prescribed levels.
- ✓ However, the utility's compliance under the **Non-Solar RPO** category remained below the mandated targets. Against the prescribed non-solar RPO targets of **1.00%, 1.25%, 1.50%, and 1.75%**, the actual compliance achieved was only **0.98%, 0.82%, 0.87%, and 1.64%**, respectively. The persistent shortfall in non-solar renewable energy procurement highlights the need for additional procurement from eligible non-solar renewable energy projects.

FY	Solar Target (%)	Solar Compliance (%)	Non-Solar Target (%)	Non-Solar Compliance (%)	Total Target (%)	Total Compliance (%)
2022-23	7.5	13.79	1	0.98	8.5	14.76

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

FY	Solar Target (%)	Solar Compliance (%)	Non- Solar Target (%)	Non-Solar Compliance (%)	Total Target (%)	Total Compliance (%)
2023-24	8	14.83	1.25	0.82	9.25	15.65
2024-25	9	16.05	1.5	0.87	10.5	16.92
2025-26*	10	20.46	1.75	1.64	11.75	22.1

3.4 Financial Analysis

3.4.1 Project Cost

As per our estimates the proposed project cost is arrived at **Rs. 396.06 Cr** which will be funded through a term loan of **Rs 277.24 Cr**, Equity of **Rs.118.82 Crores** and Already Infused Loan of **Rs. 25.77 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 38: Project Cost		
	Rs. in Crore	Percentage
Hard cost		
Land purchase cost & Site development	1.4203	0.36%
Civil works	85.9482	21.70%
Plant & Machinery	218.9962	55.29%
Utilities and Other Equipment	21.5000	5.43%
Soft Cost		
Preliminary & Pre operative expenses	16.3700	4.13%
Contingency	16.3222	4.12%
Interest during Construction	34.60	8.74%
Margin for working capital	0.89	0.23%
Total	396.06	100%

3.4.1.1 Land & Land Development Cost

Company has already purchased 20-19 Gts Acres of land by spending Rs. 1.42 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 details of the land area and its development is as follows

Table 39: Details of Land					
Details of Land	Area (Acres)	Rs. In Lacs	Stamp Duty	Total (Lacs)	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	18.99	132.2		142.03	1.42

Table 40: Land & Development Cost

Sl.No.	Particulars	Size of the Land	Rate/Acre	Total cost in Crs.
1	Own Purchase Land	18.99	858346	1.42
	Total Cost			1.42

3.4.1.2 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 41: Building & Civil Cost					
Particulars	Sq.Mt	Sq.ft	Rate/Sq.ft	Amount (Cr.)	
Security Room	25	269.00	1400	0.038	
WTP/LAB	200	2152.00	3500	0.753	
RDF Plan	1500	16140.00	4500	7.263	
LTP	659.57	7096.97	3500	2.484	
ITP	979.09	10535.01	3500	3.687	
Switch Yard	1600	17216.00	1400	2.410	
Workshop Store/Workers Block	3096.96	33323.29	1400	4.665	
Weigh Bridge Control Room	30	322.80	1250	0.040	
Boiler I and MSW PIT	3304.44	35555.77	5500	19.556	
Gate Security Room	20.31	218.54	1400	0.031	
ACC 1	555.16	5973.52	3500	2.091	
TG 1	365.69	3934.82	2630	1.035	
Total area	12336.22	132737.727		44.053	
Add: Taxes			18%	7.93	
Total				51.98	
	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	600	4.77
TOT LOT Area (Required)		7548.55	81222.40		
TOT LOT Area (Proposed)		21931.73	235985.41	500	11.80
Sub Total					16.57
Others					17.40
Total Civil Construction Cost					85.95

3.4.1.3 Plant and Machinery

Total cost for Plant and Machinery is estimated at **Rs. 219.00 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 42: Details of Plant & Machinery	Amount (Cr.)
Base price for Scope for design, engineering, manufacture, supply, electro-mechanical construction (excluding crane, civil & power evacuation).	180.00
Civil Design (Including BOQ preparation and Construction Dwg.)	1.27
Fire Hydrant System (Including Fire alarm and detection system) and HVAC	3.60
Miscellaneous items - Illumination (except street and admin building), Lightning arrestors, Canopy and side cover sheets for FA discharge area.	0.72
Sub-Total (Power Generation)	185.59
Total P&M cost (Cr.)	185.59
Add: GST	33.41
Total P & M cost	219.00

3.4.1.4 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 43: Miscellaneous Fixed Assets	
Particulars	Amount
Power Evacuation Equipment	
13 KM 33 KV Transmission line	4.15
Plant side switch yard, line, Bay at S/s	3.21
Grid – Online communication system	1.07
Segregation Equipment	10.0
WTP/STP/ETP/Leched	1.81
Other Miscellaneous Equipment	
Vehicles – Tractors, Trucks etc.	0.8
Office Furniture and Computers	0.2
DG Set & Misc. Electrical Works	0.26

Table 43: Miscellaneous Fixed Assets	
Particulars	Amount
Total	21.50

3.4.1.5 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. 16.37 Crore**. The details are as follows

Table 44: 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	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	16.37

3.4.1.6 Contingency

Contingency expenses are estimated at **Rs. 16.32 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 45: Contingency Cost			
Particulars	Cost	Percentage	Rs in Cr
Land Development	0.00	5.00	0.00
Civil works	85.95	5.00	4.30
Plant & Machinery	219.00	5.00	10.95
Utilities and Other Equipment	21.50	5.00	1.08
Total	326.44		16.32

3.4.1.7 Interest during Construction (IDC)

IDC (Interest during Construction) has been worked out at **Rs. 34.60 Cr** for the project for 24 Months period starting from Q2 of FY 2026-27 to Q2 of FY 2028-29 at an interest rate of 10.71% P.A.

3.4.2 Means of Finance

Following table shows the details of means of finance.

Table 46: Means of Finance			
	Amount in Cr.	Already infused	Percentage
Promoters' contribution	118.82	25.77	30.00%
Term loan	277.24		70.00%
Total	396.06	25.77	100%
D/E Including Unsecured Loan	2.33		

3.4.3 Term Loan Disbursement Schedule

Term loan is projected to be disbursed in 6 quarterly installments depending upon the progress of the project. The disbursement is expected to be in 6 Quarters i.e. on Q2 of FY 2026-27 to till Q2 of FY 2028-29.

Table 47: Term Loan Disbursement Schedule					
	Q1	Q2	Q3	Q4	Total
FY 2026-27	-	20.72	64.76	44.04	129.52
FY 2027-28	51.81	25.90	17.00	10.00	104.71
FY 2028-29	11.00	32.02	-	-	43.02
Total					277.24

3.4.4 Term Loan Repayment Schedule

Repayment of Term Loan of **Rs. 277.24 Crore** will be repaid in 180 Months i.e. Starting from September, 2029 to August, 2044 after 12 Months from COD i.e. starting from September, 2028 to August, 2029. The Month wise detailed repayment is as follows:

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

Table 48: Term Loan of Rs. 277.24 Crore Repayment Schedule

	April	May	June	July	August	September	October	November	December	January	February	March	Total
2029-30	-	-	-	-	-	1.540	1.540	1.540	1.540	1.540	1.540	1.540	10.782
2030-31	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2031-32	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2032-33	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2033-34	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2034-35	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2035-36	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2036-37	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2037-38	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2038-39	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2039-40	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2040-41	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2041-42	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2042-43	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2043-44	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	18.483
2044-45	1.540	1.540	1.540	1.540	1.540	-	-	-	-	-	-	-	7.701
Total													277.240

3.4.5 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 49: Break Even 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	FY 42	FY 43	FY 44
Break Even sales	42.80	74.00	73.52	72.91	72.39	71.97	71.66	71.47	71.42	71.51	71.77	72.21	72.86	73.76	74.95	59.72
Break Even Sales (%)	89.12%	84.98%	84.43%	83.73%	83.13%	82.65%	82.29%	82.07%	82.01%	82.11%	82.41%	82.92%	83.67%	84.70%	86.04%	68.57%
Cash Break Even	29.75	51.57	50.83	49.94	49.12	48.27	47.71	47.15	46.65	46.28	46.05	45.91	45.95	46.16	46.57	47.20
Cash Break Even (%)	61.95%	59.22%	58.37%	57.55%	56.41%	55.55%	54.78%	54.12%	53.57%	53.14%	52.85%	52.72%	52.76%	53.01%	53.48%	54.20%
IF DECREASE IN SALES BY 5.00%																
Break Even sales	45.50	74.88	74.44	73.89	73.42	73.07	72.83	72.72	72.75	72.94	73.31	73.89	74.69	75.76	77.14	61.63
Break Even Sales (%)	94.67%	90.28%	89.76%	89.09%	88.53%	88.10%	87.81%	87.68%	87.72%	87.95%	88.39%	89.09%	90.06%	91.35%	93.00%	74.31%
Cash Break Even	33.26	57.67	56.88	55.94	55.06	54.28	53.59	53.00	52.52	52.17	51.97	51.92	52.06	52.40	52.99	53.84
Cash Break Even (%)	65.80%	62.91%	62.05%	61.02%	60.07%	59.21%	58.46%	57.81%	57.30%	56.92%	56.69%	56.61%	56.79%	57.17%	57.80%	58.74%
IF INCREASE IN VARIABLE COST BY 5.00%																
Break Even sales	43.28	74.85	74.40	73.84	73.37	73.01	72.77	72.65	72.68	72.87	73.23	73.80	74.60	75.66	77.02	61.53
Break Even Sales (%)	90.11%	85.93%	85.43%	84.79%	84.25%	83.84%	83.56%	83.43%	83.46%	83.67%	84.09%	84.75%	85.66%	86.88%	88.45%	70.65%
Cash Break Even	30.08	52.15	51.43	50.58	49.78	49.07	48.44	47.91	47.48	47.16	46.97	46.92	47.04	47.35	47.87	48.64
Cash Break Even (%)	62.63%	59.88%	59.06%	58.08%	57.17%	56.35%	55.63%	55.01%	54.52%	54.15%	53.94%	53.88%	54.02%	54.37%	54.97%	55.85%
IF RM COST ALONE INCREASE BY 5.00%																
Break Even sales	42.82	74.04	73.56	72.95	72.43	72.02	71.71	71.52	71.46	71.56	71.82	72.26	72.92	73.82	75.00	59.77
Break Even Sales (%)	89.16%	85.02%	84.47%	83.77%	83.17%	82.70%	82.34%	82.12%	82.06%	82.17%	82.47%	82.98%	83.74%	84.77%	86.12%	68.63%
Cash Break Even	29.77	51.60	50.86	49.97	49.15	48.40	47.74	47.16	46.68	46.31	46.06	45.95	45.99	46.20	46.61	47.25
Cash Break Even (%)	61.97%	59.25%	58.40%	57.58%	56.44%	55.58%	54.82%	54.15%	53.60%	53.18%	52.89%	52.76%	52.81%	53.05%	53.52%	54.26%

3.4.6 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 50: RISK RATING RELATED RATIOS																	
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	FY 42	FY 43	FY 44	FY 45
Current Ratio	0.87	1.20	1.50	1.80	2.10	2.40	2.69	2.97	3.24	3.49	3.72	3.80	3.83	3.84	3.82	5.01	6.73
TOL/TNW (times)	2.49	2.30	1.97	1.70	1.46	1.25	1.07	0.91	0.77	0.65	0.54	0.45	0.37	0.29	0.22	0.14	0.10
PAT/Net Sales (%)	8.93	12.30	12.61	13.02	13.32	13.51	13.58	13.53	13.35	13.03	12.56	5.69	3.76	2.61	1.41	12.22	10.63
PBDIT/Interest (times)	1.82	1.93	1.99	2.07	2.17	2.27	2.38	2.51	2.67	2.85	3.07	3.35	3.73	4.23	5.01	6.40	8.58
ROCE (%) (PBDIT/TA)	8.19	14.77	14.66	14.51	14.32	14.09	13.83	13.53	13.19	12.82	12.41	12.16	11.90	11.61	11.28	10.48	9.26
INV/REC/Sales (days)	109	70	72	73	75	76	78	80	82	84	86	88	91	94	96	99	102
Retained profit / Total assets	1.05	2.62	2.73	2.87	2.98	3.07	3.14	3.18	3.19	3.18	3.12	1.47	1.01	0.74	0.42	3.75	3.23
Net Cash Accrual / TOL	5.12	10.20	11.00	11.94	12.99	14.17	15.51	17.06	18.89	21.10	23.84	22.21	24.82	29.74	37.95	54.53	63.31

Comments:

- Current ratio is estimated at 1.50 in FY 2030-31 i.e. more than the benchmark level of 1.33
- TOL/ TNW is improving Year on Year from FY 2030-31 and it is less than 3 as per Bank policy from FY 2030-31 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 30 onwards due to repayment of loan and increase in margins
- ROCE (%) (PBDIT/TA) is showing increasing trend due to increased revenue & stabilized cost structure.

3.4.7 DSCR

The DSCR (Gross) and DSCR (Net) for the Company for the proposed project is at acceptable level at 1.30 and 1.56 respectively against Minimum Average gross DSCR requirement is 1.00. 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 51: DSCR in different scenarios			
	Details	Gross	Net
1	DSCR In Base case	1.30	1.56
2	Scenario-I (Decrease in Revenue by 0.00%)	1.28	1.51
3	Scenario-II (Increase in Operational cost by 0.00%)	1.28	1.51
4	Scenario-III (Increase in Raw Material cost by 0.00%)	1.28	1.51
5	Scenario-IV (Increase in Raw Material cost & Decrease in Sales by 1.00%)	1.25	1.46

Annexure 01: Term Loan Schedule (Prop)

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
		Loan amount	277.24	Crore			
		Interest Rate	10.71%				
		Disbursement	24	Months starting from Sep, 2026 to Aug 2028			
		Moratorium	12	Months starting from Sep 2028 to Aug 2029			
		Repayment Period	180	Months Starting from Sep 2029 to August 2044			
		Door to Door Period	216	Months starting from September 2026 to August, 2044			
			15 years				
FY 27	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			0.000	0.000	0.000
	August	0.000			0.000	0.000	0.000
Q2	September	0.000	20.72		20.722	10.361	0.092
	October	20.722			20.722	20.722	0.185
	November	20.722			20.722	20.722	0.185
Q3	December	20.722	64.76		85.480	53.101	0.474
	January	85.480			85.480	85.480	0.763
	February	85.480			85.480	85.480	0.763

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

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
Q4	March	85.480	44.04		129.515	107.498	0.959
				0.000			3.422
FY 28	April	129.515			129.515	129.515	1.156
	May	129.515			129.515	129.515	1.156
Q1	June	129.515	51.81		181.321	155.418	1.387
	July	181.321			181.321	181.321	1.618
	August	181.321			181.321	181.321	1.618
Q2	September	181.321	25.90		207.224	194.273	1.734
	October	207.224			207.224	207.224	1.849
	November	207.224			207.224	207.224	1.849
Q3	December	207.224	17.00		224.224	215.724	1.925
	January	224.224			224.224	224.224	2.001
	February	224.224			224.224	224.224	2.001
Q4	March	224.224	10.00		234.224	229.224	2.046
				0.000			20.342
FY 29	April	234.224			234.224	234.224	2.090
	May	234.224			234.224	234.224	2.090
Q1	June	234.224	11.00		245.224	239.724	2.140
	July	245.224			245.224	245.224	2.189
	August	245.224	32.02		277.240	261.232	2.331
Q2	September	277.240			277.240	277.240	2.474
	October	277.240			277.240	277.240	2.474
	November	277.240			277.240	277.240	2.474
Q3	December	277.240			277.240	277.240	2.474

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Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
	January	277.240			277.240	277.240	2.474
	February	277.240			277.240	277.240	2.474
Q4	March	277.240			277.240	277.240	2.474
				0.000			17.321
FY 30	April	277.240			277.240	277.240	2.474
	May	277.240			277.240	277.240	2.474
Q1	June	277.240			277.240	277.240	2.474
	July	277.240			277.240	277.240	2.474
	August	277.240			277.240	277.240	2.474
Q2	September	277.240		1.540	275.700	276.470	2.467
	October	275.700		1.540	274.160	274.930	2.454
	November	274.160		1.540	272.619	273.389	2.440
Q3	December	272.619		1.540	271.079	271.849	2.426
	January	271.079		1.540	269.539	270.309	2.413
	February	269.539		1.540	267.999	268.769	2.399
Q4	March	267.999		1.540	266.458	267.229	2.385
				10.782			29.356
FY 31	April	266.458		1.540	264.918	265.688	2.371
	May	264.918		1.540	263.378	264.148	2.358
Q1	June	263.378		1.540	261.838	262.608	2.344
	July	261.838		1.540	260.298	261.068	2.330
	August	260.298		1.540	258.757	259.527	2.316
Q2	September	258.757		1.540	257.217	257.987	2.303
	October	257.217		1.540	255.677	256.447	2.289

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By SV Green Power Projects Limited (SVGPPPL)
At Yacharam Village & Mandal, Ranga Reddy District, Telangana*

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
	November	255.677		1.540	254.137	254.907	2.275
Q3	December	254.137		1.540	252.596	253.367	2.261
	January	252.596		1.540	251.056	251.826	2.248
	February	251.056		1.540	249.516	250.286	2.234
Q4	March	249.516		1.540	247.976	248.746	2.220
				18.483			27.548
FY 32	April	247.976		1.540	246.436	247.206	2.206
	May	246.436		1.540	244.895	245.665	2.193
Q1	June	244.895		1.540	243.355	244.125	2.179
	July	243.355		1.540	241.815	242.585	2.165
	August	241.815		1.540	240.275	241.045	2.151
Q2	September	240.275		1.540	238.734	239.505	2.138
	October	238.734		1.540	237.194	237.964	2.124
	November	237.194		1.540	235.654	236.424	2.110
Q3	December	235.654		1.540	234.114	234.884	2.096
	January	234.114		1.540	232.574	233.344	2.083
	February	232.574		1.540	231.033	231.803	2.069
Q4	March	231.033		1.540	229.493	230.263	2.055
				18.483			25.568
FY 33	April	229.493		1.540	227.953	228.723	2.041
	May	227.953		1.540	226.413	227.183	2.028
Q1	June	226.413		1.540	224.872	225.643	2.014
	July	224.872		1.540	223.332	224.102	2.000
	August	223.332		1.540	221.792	222.562	1.986

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

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
Q2	September	221.792		1.540	220.252	221.022	1.973
	October	220.252		1.540	218.712	219.482	1.959
	November	218.712		1.540	217.171	217.941	1.945
Q3	December	217.171		1.540	215.631	216.401	1.931
	January	215.631		1.540	214.091	214.861	1.918
	February	214.091		1.540	212.551	213.321	1.904
Q4	March	212.551		1.540	211.010	211.781	1.890
				18.483			23.589
FY 34	April	211.010		1.540	209.470	210.240	1.876
	May	209.470		1.540	207.930	208.700	1.863
	June	207.930		1.540	206.390	207.160	1.849
Q1	July	206.390		1.540	204.850	205.620	1.835
	August	204.850		1.540	203.309	204.079	1.821
	September	203.309		1.540	201.769	202.539	1.808
Q2	October	201.769		1.540	200.229	200.999	1.794
	November	200.229		1.540	198.689	199.459	1.780
	December	198.689		1.540	197.148	197.919	1.766
Q3	January	197.148		1.540	195.608	196.378	1.753
	February	195.608		1.540	194.068	194.838	1.739
	March	194.068		1.540	192.528	193.298	1.725
Q4				18.483			21.609
	April	192.528		1.540	190.988	191.758	1.711
	May	190.988		1.540	189.447	190.217	1.698
FY 35	June	189.447		1.540	187.907	188.677	1.684

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

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
	July	187.907		1.540	186.367	187.137	1.670
	August	186.367		1.540	184.827	185.597	1.656
Q2	September	184.827		1.540	183.286	184.057	1.643
	October	183.286		1.540	181.746	182.516	1.629
	November	181.746		1.540	180.206	180.976	1.615
Q3	December	180.206		1.540	178.666	179.436	1.601
	January	178.666		1.540	177.126	177.896	1.588
	February	177.126		1.540	175.585	176.355	1.574
Q4	March	175.585		1.540	174.045	174.815	1.560
				18.483			19.630
FY 36	April	174.045		1.540	172.505	173.275	1.546
	May	172.505		1.540	170.965	171.735	1.533
Q1	June	170.965		1.540	169.424	170.195	1.519
	July	169.424		1.540	167.884	168.654	1.505
	August	167.884		1.540	166.344	167.114	1.491
Q2	September	166.344		1.540	164.804	165.574	1.478
	October	164.804		1.540	163.264	164.034	1.464
	November	163.264		1.540	161.723	162.493	1.450
Q3	December	161.723		1.540	160.183	160.953	1.437
	January	160.183		1.540	158.643	159.413	1.423
	February	158.643		1.540	157.103	157.873	1.409
Q4	March	157.103		1.540	155.562	156.333	1.395
				18.483			17.650
FY 37	April	155.562		1.540	154.022	154.792	1.382

*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*

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
Q1	May	154.022		1.540	152.482	153.252	1.368
	June	152.482		1.540	150.942	151.712	1.354
	July	150.942		1.540	149.402	150.172	1.340
Q2	August	149.402		1.540	147.861	148.631	1.327
	September	147.861		1.540	146.321	147.091	1.313
	October	146.321		1.540	144.781	145.551	1.299
Q3	November	144.781		1.540	143.241	144.011	1.285
	December	143.241		1.540	141.700	142.471	1.272
	January	141.700		1.540	140.160	140.930	1.258
Q4	February	140.160		1.540	138.620	139.390	1.244
	March	138.620		1.540	137.080	137.850	1.230
				18.483			15.671
FY 38	April	137.080		1.540	135.540	136.310	1.217
	May	135.540		1.540	133.999	134.769	1.203
	June	133.999		1.540	132.459	133.229	1.189
Q1	July	132.459		1.540	130.919	131.689	1.175
	August	130.919		1.540	129.379	130.149	1.162
	September	129.379		1.540	127.838	128.609	1.148
Q2	October	127.838		1.540	126.298	127.068	1.134
	November	126.298		1.540	124.758	125.528	1.120
	December	124.758		1.540	123.218	123.988	1.107
Q3	January	123.218		1.540	121.678	122.448	1.093
	February	121.678		1.540	120.137	120.907	1.079
	March	120.137		1.540	118.597	119.367	1.065

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

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
				18.483			13.691
FY 39	April	118.597		1.540	117.057	117.827	1.052
	May	117.057		1.540	115.517	116.287	1.038
Q1	June	115.517		1.540	113.976	114.747	1.024
	July	113.976		1.540	112.436	113.206	1.010
	August	112.436		1.540	110.896	111.666	0.997
Q2	September	110.896		1.540	109.356	110.126	0.983
	October	109.356		1.540	107.816	108.586	0.969
	November	107.816		1.540	106.275	107.045	0.955
Q3	December	106.275		1.540	104.735	105.505	0.942
	January	104.735		1.540	103.195	103.965	0.928
	February	103.195		1.540	101.655	102.425	0.914
Q4	March	101.655		1.540	100.114	100.885	0.900
				18.483			11.712
FY 40	April	100.114		1.540	98.574	99.344	0.887
	May	98.574		1.540	97.034	97.804	0.873
Q1	June	97.034		1.540	95.494	96.264	0.859
	July	95.494		1.540	93.954	94.724	0.845
	August	93.954		1.540	92.413	93.183	0.832
Q2	September	92.413		1.540	90.873	91.643	0.818
	October	90.873		1.540	89.333	90.103	0.804
	November	89.333		1.540	87.793	88.563	0.790
Q3	December	87.793		1.540	86.252	87.023	0.777
	January	86.252		1.540	84.712	85.482	0.763

*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*

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
	February	84.712		1.540	83.172	83.942	0.749
Q4	March	83.172		1.540	81.632	82.402	0.735
				18.483			9.733
FY 41	April	81.632		1.540	80.092	80.862	0.722
	May	80.092		1.540	78.551	79.321	0.708
Q1	June	78.551		1.540	77.011	77.781	0.694
	July	77.011		1.540	75.471	76.241	0.680
	August	75.471		1.540	73.931	74.701	0.667
Q2	September	73.931		1.540	72.390	73.161	0.653
	October	72.390		1.540	70.850	71.620	0.639
	November	70.850		1.540	69.310	70.080	0.625
Q3	December	69.310		1.540	67.770	68.540	0.612
	January	67.770		1.540	66.230	67.000	0.598
	February	66.230		1.540	64.689	65.459	0.584
Q4	March	64.689		1.540	63.149	63.919	0.570
				18.483			7.753
FY 42	April	63.149		1.540	61.609	62.379	0.557
	May	61.609		1.540	60.069	60.839	0.543
Q1	June	60.069		1.540	58.528	59.299	0.529
	July	58.528		1.540	56.988	57.758	0.515
	August	56.988		1.540	55.448	56.218	0.502
Q2	September	55.448		1.540	53.908	54.678	0.488
	October	53.908		1.540	52.368	53.138	0.474
	November	52.368		1.540	50.827	51.597	0.461

*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*

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
Q3	December	50.827		1.540	49.287	50.057	0.447
	January	49.287		1.540	47.747	48.517	0.433
	February	47.747		1.540	46.207	46.977	0.419
Q4	March	46.207		1.540	44.666	45.437	0.406
				18.483			5.774
FY 43	April	44.666		1.540	43.126	43.896	0.392
	May	43.126		1.540	41.586	42.356	0.378
Q1	June	41.586		1.540	40.046	40.816	0.364
	July	40.046		1.540	38.506	39.276	0.351
	August	38.506		1.540	36.965	37.735	0.337
Q2	September	36.965		1.540	35.425	36.195	0.323
	October	35.425		1.540	33.885	34.655	0.309
	November	33.885		1.540	32.345	33.115	0.296
Q3	December	32.345		1.540	30.804	31.575	0.282
	January	30.804		1.540	29.264	30.034	0.268
	February	29.264		1.540	27.724	28.494	0.254
Q4	March	27.724		1.540	26.184	26.954	0.241
				18.483			3.794
FY 44	April	26.184		1.540	24.644	25.414	0.227
	May	24.644		1.540	23.103	23.873	0.213
Q1	June	23.103		1.540	21.563	22.333	0.199
	July	21.563		1.540	20.023	20.793	0.186
	August	20.023		1.540	18.483	19.253	0.172
Q2	September	18.483		1.540	16.942	17.713	0.158

*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*

Term Loan Schedule (Prop)							
Year	Quarters	Opening balance	Disbursement	Repayment	Closing Bal	Average Bal	Interest
	October	16.942		1.540	15.402	16.172	0.144
	November	15.402		1.540	13.862	14.632	0.131
Q3	December	13.862		1.540	12.322	13.092	0.117
	January	12.322		1.540	10.782	11.552	0.103
	February	10.782		1.540	9.241	10.011	0.089
Q4	March	9.241		1.540	7.701	8.471	0.076
				18.483			1.815
FY 45	April	7.701		1.540	6.161	6.931	0.062
	May	6.161		1.540	4.621	5.391	0.048
Q1	June	4.621		1.540	3.080	3.851	0.034
	July	3.080		1.540	1.540	2.310	0.021
	August	1.540		1.540	0.000	0.770	0.007
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
				7.701			0.172
				277.240			276.149

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

Annexure 02: Operating statement

Operating statement																			
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	FY 42	FY 43	FY 44	FY 45
GROSS SALES																			
Domestic sales	-	-	48 03	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09
Revenue income																			
Export Sales																			
Total	-	-	48 03	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09
Less excise duty																			
Net sales (item 1 - item 2)	-	-	48 03	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09	87 09
% age rise (+) or fall (-) in net sales compared to previous year (annualised)	(100 00)	-	-	81 32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost of Sales																			
Raw materials (including stores and other items used in the process of manufacture)	-	-	0 37	0 66	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	1 05
(a) Imported																			
(b) Indigenous	-	-	0 37	0 66	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	1 05
Other spares	-	-	0 35	0 63	0 67	0 71	0 75	0 79	0 84	0 89	0 94	0 99	1 05	1 11	1 17	1 24	1 31	1 38	1 46
(a) Imported																			
(b) Indigenous	-	-	0 35	0 63	0 67	0 71	0 75	0 79	0 84	0 89	0 94	0 99	1 05	1 11	1 17	1 24	1 31	1 38	1 46
Power and fuel																			
Direct labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(Factory wages & salary)																			
Other mfg. Expenses	-	-	13 86	25 12	26 56	28 08	29 68	31 38	33 18	35 08	37 08	39 20	41 45	43 82	46 32	48 97	51 77	54 73	57 87
Depreciation	-	-	10 72	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	18 37	7 87	7 87
SUB TOTAL (I TO VI)	-	-	25 30	44 80	46 29	47 88	49 55	51 32	53 18	55 15	57 24	59 44	61 76	64 22	66 81	69 55	72 45	65 01	68 24

*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*

Operating statement																			
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	FY 42	FY 43	FY 44	FY 45
ADD Opening stocks-in-Process)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub-total	-	-	25.30	44.80	46.29	47.88	49.55	51.32	53.18	55.15	57.24	59.44	61.76	64.22	66.81	69.55	72.45	65.01	68.24
Deduct Closing stocks-in-process																			
Cost of Production	-	-	25.30	44.80	46.29	47.88	49.55	51.32	53.18	55.15	57.24	59.44	61.76	64.22	66.81	69.55	72.45	65.01	68.24
Add Opening stock of																			
finished goods	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB-TOTAL	-	-	25.30	44.80	46.29	47.88	49.55	51.32	53.18	55.15	57.24	59.44	61.76	64.22	66.81	69.55	72.45	65.01	68.24
Deduct closing stock of																			
finished goods																			
SUB-TOTAL (Total cost of Sales)	-	-	25.30	44.80	46.29	47.88	49.55	51.32	53.18	55.15	57.24	59.44	61.76	64.22	66.81	69.55	72.45	65.01	68.24
Selling general and administrative expenses	0.84	-	0.12	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
SUB-TOTAL (5+6)	0.84	-	25.42	45.01	46.51	48.09	49.77	51.53	53.40	55.37	57.45	59.65	61.98	64.43	67.03	69.77	72.67	65.23	68.46
Operating profit before interest	(0.84)	-	22.61	42.07	40.57	38.99	37.32	35.55	33.69	31.71	29.63	27.43	25.11	22.65	20.06	17.31	14.42	21.86	18.62
(3-7)																			
Working Capital Interest	-	-	1.00	2.00	2.04	2.09	2.13	2.18	2.23	2.28	2.34	2.40	2.46	2.52	2.59	2.67	2.75	2.83	2.92
Term Loan Interest	-	-	17.32	29.34	27.55	25.57	23.59	21.61	19.63	17.65	15.67	13.69	11.71	9.73	7.75	5.77	3.79	1.81	0.17
Total Interest	-	-	18.32	31.33	29.59	27.65	25.72	23.79	21.86	19.93	18.01	16.09	14.17	12.26	10.35	8.44	6.54	4.64	3.09
Operating profit after interest (8-9)	(0.84)	-	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
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																			

*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*

Operating statement																			
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	FY 42	FY 43	FY 44	FY 45
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+11(iii)]	(0.84)	-	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
Provision for taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	5.44	6.44	6.60	6.65	6.58	6.28
Prior Years Adjustment (if any) #																			
Net profit/loss for the year (12-13)	(0.84)	-	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
(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)	(0.84)	-	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
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	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	FY 42	FY 43	FY 44	FY 45
CURRENT LIABILITIES																				
Short-term borrowings from banks (including bills purchased, discounted & excess borrowing placed on repayment basis)																				
(i.) From applicant banks	-	-	-	14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
(ii.) From other banks																				
(iii) Of which BP & BD																				
SUB TOTAL	-	-	-	14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
Short term borrowings from others																				
Sundry Creditors (Trade)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Advance payments from customers /deposits from dealers																				
Provision for taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dividend payable																				
Other statutory liabilities (due within one year)																				
Deposits/instalments of TL	-	-	-	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	-
IDPGs/Debentures, etc. Due <12m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IFST Loan < 12 m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other current liabilities & provisions (due within 1 Yr)																				
Other current liabilities	0.62	0.65	0.68	0.72	0.75	0.79	0.83	0.87	0.91	0.96	1.01	1.06	1.11	1.17	1.22	1.29	1.35	1.42	1.49	1.56
Creditors for capital goods																				
Liability for Expenses																				
Liabilities for other Expenses																				
Liability for Capital Goods																				
Expenses Payable																				
SUB-TOTAL (B)	0.62	0.65	0.68	11.50	19.23	19.27	19.31	19.35	19.40	19.44	19.49	19.54	19.59	19.65	19.71	19.77	19.83	19.90	9.19	1.56
TOTAL CURRENT LIABILITIES	0.62	0.65	0.68	25.85	35.98	36.35	36.75	37.16	37.61	38.07	38.56	39.08	39.62	40.21	40.82	41.46	42.14	42.87	32.85	25.95

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

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	FY 42	FY 43	FY 44	FY 45
TERM LIABILITIES																				
Debentures (not maturing within one year)																				
Preference shares (redeemable after one year)																				
Term loans (excluding instalment payable within one year)	-	129.52	234.22	266.46	247.98	329.49	211.01	192.53	174.05	155.56	137.08	118.60	100.11	81.63	63.15	44.67	26.18	7.70	-	-
Sales Tax Deferred Credits (Excluding instalments due within one year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hire Purchase Loan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Creditors for capital goods																				
Other Term Liabilities																				
Unsecured Loans from Directors frds	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
TOTAL TERM LIABILITIES	1.09	130.61	235.31	267.55	249.07	330.58	212.10	193.62	175.14	156.65	138.17	119.69	101.20	82.72	64.24	45.76	27.27	8.79	1.09	1.09
TOTAL OUTSIDE LIABILITIES	1.71	131.25	236.00	268.40	250.05	331.67	213.19	194.72	176.24	157.71	139.26	120.78	102.31	83.84	65.36	46.81	28.39	9.88	2.18	2.18
NET WORTH																				
Ordinary share capital	25.77	51.67	67.38	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82
Capital reserve																				
General reserve																				
Capital Subsidy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Investment Allowances Reserve																				
Share Premium																				
Surplus (+) or deficit (-) m	(8.79)	(9.63)	(9.63)	(5.34)	5.37	16.35	27.69	39.29	51.05	62.88	74.66	86.29	97.63	108.57	119.52	116.80	119.07	120.30	130.94	140.19
Profit & Loss Account																				
Deferred Tax Liability (DTL)																				
NET WORTH	16.98	42.04	57.75	113.47	124.19	135.17	146.50	158.10	169.87	181.70	193.48	205.10	216.45	227.38	232.34	235.61	237.88	239.11	249.75	259.00
TOTAL LIABILITIES	18.69	173.30	293.74	406.87	409.24	402.10	395.36	388.88	382.61	376.42	370.21	363.87	357.27	350.31	337.40	322.83	307.30	290.77	283.69	286.05

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	FY 42	FY 43	FY 44	FY 45
Cash and bank balances	1.58	(0.26)	(0.74)	1.50	9.84	19.75	30.02	40.55	51.25	62.02	72.74	83.31	93.59	103.48	101.94	103.17	104.23	104.38	103.54	112.33
Fixed Deposits with Banks																				
(i) Receivables other than	-	-	-	10.29	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
deferred & exports (include																				
bills purchased and																				
discounted by Banks)																				
(ii) Export receivables(include	-	-	-	-	-	-	-	-												
bills purchased and																				
discounted by banks)																				
Installments of deferred																				
receivables(due with in one yr)																				
Inventory	-	-	-	4.06	5.86	6.20	6.55	6.93	7.32	7.74	8.18	8.65	9.15	9.67	10.22	10.81	11.43	12.08	12.77	13.50
(i)Raw materials(including stores																				
& other items used in the																				
process of manufacture)																				
(a) Imported																				
(b) Indigenous	-	-	-	4.06	5.86	6.20	6.55	6.93	7.32	7.74	8.18	8.65	9.15	9.67	10.22	10.81	11.43	12.08	12.77	13.50
(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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.44	6.44	6.60	6.65	6.58	6.28
Other Current assets																				
I) Advances to workers																				
ii) Pre-Paid Expenses																				
iii) Interest Receivable																				
iv) Other Current assets	0.65	0.65	0.65	6.65	16.65	17.65	18.65	19.65	20.65	21.65	22.65	23.65	24.65	25.65	26.65	27.65	28.65	29.65	30.65	31.65

*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*

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	FY 42	FY 43	FY 44	FY 45
v) TUF concession Receivable																				
(Specify major items)	0.65	0.65	0.65	0.65	16.65	17.65	18.65	19.65	20.65	21.65	22.65	23.65	24.65	25.65	26.65	27.65	28.65	29.65	30.65	31.65
TOTAL CURRENT ASSETS	2.23	0.39	(0.09)	22.50	43.24	54.49	65.11	78.01	90.11	102.30	114.46	126.50	138.28	149.69	155.14	158.95	161.80	163.65	164.43	174.66
FIXED ASSETS																				
Gross Block (Land & Building	2.47	2.47	2.47	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16	395.16
machinery, work-in-process)	14.09	170.51	291.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation to date	0.11	0.09	0.09	10.80	29.18	47.55	65.93	84.30	102.67	121.05	139.42	157.80	176.17	194.54	212.92	231.29	249.67	268.04	275.91	283.78
NET BLOCK	16.45	172.89	293.83	384.36	365.98	347.61	329.23	310.86	292.49	274.11	255.74	237.36	218.99	200.62	182.24	163.87	145.49	127.12	119.25	111.38
OTHER NON-CURRENT ASSETS																				
Investment/bank debts/advances	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
deposits which are not current																				
assets																				
(i) a) Investment in subsidiary																				
Co./affiliates																				
b) Other Investments																				
(ii) Advances to suppliers of	-	-																		
capital goods & contractors																				
(iii) Deferred receivables (maturity																				
exceeding one year)																				
(iv) Others (a) Debtors > 6 months																				
(b) Security Deposits																				
© Project Surplus																				
Non-consumables stores &																				
spares																				
Other non-current assets	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TOTAL OTHER NON-CURR. ASSETS	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Intangible assets (patents,																				
goodwill, prelim. Expenses, bad																				
doubtful exp. not provided for etc)																				
TOTAL ASSETS (34+37+41+42)	18.69	173.30	293.74	406.87	409.24	402.10	395.36	388.88	382.61	376.42	370.21	363.87	357.27	350.31	337.40	322.83	307.30	290.77	283.69	286.05

Annexure 06: Financial Indicators

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	FY 42	FY 43	FY 44	FY 45
Domestic Sales (Gross)	0.00	48.03	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09
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	0.00	0.00	0.00
Net Sales	0.00	48.03	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09
% rise/fall (-) in net sales	-	-	81.32	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
Operating Profit	0.00	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
Profit Before tax	0.00	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
PBT/ Sales (%)	-	8.93	12.30	12.61	13.02	13.32	13.51	13.58	13.53	13.35	13.03	12.56	11.94	11.15	10.19	9.04	19.77	17.84
Profit After Tax	0.00	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.23
Cash Accrual	0.00	15.01	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12
PBDIT	-	33.33	60.45	58.95	57.36	55.69	53.93	52.06	50.09	48.01	45.81	43.48	41.03	38.43	35.69	32.79	29.73	26.49
Paid Up Capital	67.38	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82
TNW	57.75	113.47	124.19	135.17	146.50	158.10	169.87	181.70	193.48	205.10	216.45	227.38	232.34	235.61	237.88	239.11	249.75	259.00
Adjusted TNW	57.75	113.47	124.19	135.17	146.50	158.10	169.87	181.70	193.48	205.10	216.45	227.38	232.34	235.61	237.88	239.11	249.75	259.00
TOL/TNW (times)	4.09	2.59	2.30	1.97	1.70	1.46	1.25	1.07	0.91	0.77	0.65	0.54	0.45	0.37	0.29	0.22	0.14	0.10
Adjusted TOL/TNW	4.09	2.59	2.30	1.97	1.70	1.46	1.25	1.07	0.91	0.77	0.65	0.54	0.45	0.37	0.29	0.22	0.14	0.10
NWC	-0.78	-3.35	7.26	18.13	29.36	40.85	52.51	64.23	75.90	87.42	98.65	109.48	114.33	117.49	119.65	120.77	131.58	148.70
Current Ratio	-0.14	0.87	1.20	1.50	1.80	2.10	2.40	2.69	2.97	3.24	3.49	3.72	3.80	3.83	3.84	3.82	5.01	6.73
TTL TNW	4.07	2.36	2.01	1.71	1.45	1.22	1.03	0.86	0.71	0.58	0.47	0.36	0.28	0.19	0.11	0.04	0.00	0.00
Current ratio without TL repay s	-0.14	1.49	2.47	3.05	3.62	4.18	4.71	5.22	5.70	6.14	6.54	6.89	6.95	6.92	6.84	6.71	6.54	6.73
TOL/TNW (treating USL as	3.99	2.55	2.27	1.95	1.68	1.44	1.24	1.06	0.90	0.76	0.64	0.53	0.45	0.36	0.29	0.21	0.13	0.10
Quasi Equity)																		
Operating Cost/ sales %	-	91.1	87.7	87.4	87.0	86.7	86.5	86.4	86.5	86.7	87.0	87.4	88.1	88.9	89.8	91.0	80.2	82.2
Net Sales /TTA (times)	0.00	0.12	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.26	0.27	0.28	0.30	0.31	0.30
PBDIT	0.00	33.33	60.45	58.95	57.36	55.69	53.93	52.06	50.09	48.01	45.81	43.48	41.03	38.43	35.69	32.79	29.73	26.49
EFFICIENCY RATIOS																		
Net Sales/ Total Tangible	0.00	0.12	0.21	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.26	0.27	0.28	0.30	0.31	0.30
Assets (times)																		
PBT/ Total Tangible Assets (%)	0.00	1.05	2.62	2.73	2.87	2.98	3.07	3.14	3.18	3.19	3.18	3.12	3.08	3.01	2.89	2.71	6.07	5.43
Operating Cost to sales (%)	#DIV/0!	91.07	87.70	87.39	86.98	86.68	86.49	86.42	86.47	86.65	86.97	87.44	88.06	88.85	89.81	90.96	80.23	82.16
Bank Finance/ Ct. Assets (%)	0.00	63.77	38.73	31.35	26.38	22.83	20.21	18.21	16.66	15.45	14.49	13.74	13.61	13.65	13.79	14.04	14.39	13.96
Inventory+ Receivables to net	-	109.07	70.19	71.60	73.09	74.66	76.32	78.07	79.93	81.89	83.96	86.16	88.48	90.93	93.52	96.26	99.15	102.22
Sales (days)																		
PBDIT	0.00	33.33	60.45	58.95	57.36	55.69	53.93	52.06	50.09	48.01	45.81	43.48	41.03	38.43	35.69	32.79	29.73	26.49
RISK RATING RELATED RATIOS																		

*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*

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	FY 42	FY 43	FY 44	FY 45
Current Ratio	-0.14	0.87	1.20	1.50	1.80	2.10	2.40	2.69	2.97	3.24	3.49	3.72	3.80	3.83	3.84	3.82	5.01	6.73
TOL/TNW (times)	4.09	2.59	2.30	1.97	1.70	1.46	1.25	1.07	0.91	0.77	0.65	0.54	0.45	0.37	0.29	0.22	0.14	0.10
PAT/Net Sales (%)	-	8.93	12.30	12.61	13.02	13.32	13.51	13.58	13.53	13.35	13.03	12.56	5.69	3.76	2.61	1.41	12.22	10.63
PBDIT/Interest (times)	-	1.82	1.93	1.99	2.07	2.17	2.27	2.38	2.51	2.67	2.85	3.07	3.35	3.71	4.23	5.01	6.40	8.58
ROCE (%) (PBDIT/TA)	0.00	8.19	14.77	14.66	14.51	14.32	14.09	13.83	13.53	13.19	12.82	12.41	12.16	11.90	11.61	11.28	10.48	9.26
INV+REC./Sales (days)	-	109	70	72	73	75	76	78	80	82	84	86	88	91	94	96	99	102
Retained profit / Total assets	0.00	1.05	2.62	2.73	2.87	2.98	3.07	3.14	3.18	3.19	3.18	3.12	1.47	1.01	0.74	0.42	3.75	3.23
Net Cash Accrual / TOL	0.00	5.12	10.20	11.00	11.94	12.99	14.17	15.51	17.06	18.89	21.10	23.84	22.21	24.82	29.74	37.95	54.53	63.31

Annexure 07: ABF Statement

ABF 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	FY 42	FY 43	FY 44	FY 45
Total CA	22.50	43.24	54.49	66.11	78.01	90.11	102.30	114.46	126.50	138.28	149.69	155.14	158.95	161.80	163.65	164.43	174.66
Other CL(Except Bank Borr.)	11.50	19.23	19.27	19.31	19.35	19.40	19.44	19.49	19.54	19.59	19.65	19.71	19.77	19.83	19.90	9.19	1.56
Working Capital Gap	11.00	24.01	35.21	46.80	58.66	70.72	82.86	94.97	106.96	118.68	130.04	135.44	139.18	141.96	143.74	155.24	173.09
Net Working Capital (Act./Proj)	-3.35	7.26	18.13	29.36	40.85	52.51	64.23	75.90	87.42	98.65	109.48	114.33	117.49	119.65	120.77	131.58	148.70
Assessed Bank Finance	14.35	16.75	17.08	17.44	17.81	18.21	18.63	19.07	19.54	20.03	20.56	21.11	21.69	22.31	22.97	23.66	24.39
NWC to TCA (%)	-14.87	16.79	33.28	44.41	52.36	58.27	62.78	66.31	69.11	71.34	73.14	73.69	73.92	73.95	73.80	80.02	85.14
Bank Finance to TCA %	63.77	38.73	31.35	26.38	22.83	20.21	18.21	16.66	15.45	14.49	13.74	13.61	13.65	13.79	14.04	14.39	13.96
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	0.00	0.00	0.00
Other CL to TCA (%)	51.10	44.48	35.37	29.21	24.81	21.52	19.01	17.03	15.45	14.17	13.13	12.70	12.44	12.26	12.16	5.59	0.90
Inv. To Net sales (days)	30.9	24.6	26.0	27.5	29.0	30.7	32.4	34.3	36.3	38.3	40.5	42.9	45.3	47.9	50.6	53.5	56.6
Rec. to gross sales (days)	78.21	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63	45.63
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	0.00	0.00	0.00

*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 08: 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	FY 42	FY 43	FY 44	FY 45
SOURCES																				
Net Profit (After Tax)	0.00	0.00	0.00	-4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
Depreciation	0.00	-0.02	0.00	10.72	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	7.87	7.87
Increase in Capital	3.27	25.90	15.71	51.44	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
Increase In TL Inc. Public deposits	1.09	129.52	104.71	32.23	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
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	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	0.00	0.00	0.00	0.00
Others	11.21	0.02	0.00	-0.84	-0.04	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	15.57	155.42	120.42	98.04	29.05	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12
USES																				
Net Loss	0.83	0.84	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	0.00	0.00
Dec in Term Liab incl Pub Dep	0.00	0.00	0.00	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	0.00
Increase in																				
i) Fixed Assets	14.71	156.44	120.94	90.53	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	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	0.00	0.00	0.00	0.00
Others																				
Total	15.54	157.29	120.94	101.31	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	0.00
(Summary)																				
Long Term Surplus/Deficit	0.03	-1.87	-0.52	-3.27	10.50	10.87	11.23	11.49	11.66	11.72	11.67	11.52	11.24	10.83	4.85	3.16	2.16	1.12	10.81	17.12
Increase/decrease in Curr. Assts	1.68	-1.84	-0.49	22.60	20.74	11.24	11.63	11.90	12.10	12.18	12.16	12.04	11.78	11.41	5.46	3.81	2.85	1.85	0.79	10.23
Inc/Dec. in CL other than BB	0.08	0.03	0.03	10.82	7.74	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	-10.71	-7.63
Inc/Dec. in WC Gap	1.60	-1.87	-0.52	11.73	13.00	11.20	11.59	11.86	12.06	12.14	12.11	11.99	11.73	11.36	5.40	3.74	2.78	1.78	11.50	17.85
Net Surplus (+) Deficit (-)	-1.57	0.00	0.00	-15.05	-2.44	-0.33	-0.36	-0.37	-0.40	-0.42	-0.43	-0.47	-0.49	-0.53	-0.55	-0.58	-0.62	-0.66	-0.69	-0.73
Inc/Dec. in Bank Borrowings	-1.57	0.00	0.00	14.35	2.40	0.33	0.36	0.37	0.40	0.42	0.44	0.47	0.49	0.53	0.55	0.58	0.62	0.66	0.69	0.73
FUND FLOW STATEMENT																				
Long Term Sources	15.57	155.42	120.42	98.04	29.05	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12

*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*

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	FY 42	FY 43	FY 44	FY 45
Long Term Uses	15.54	157.29	120.94	101.31	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	0.00
Surplus/Deficit	0.03	-1.87	-0.52	-3.27	10.50	10.87	11.23	11.49	11.66	11.72	11.67	11.52	11.24	10.83	4.85	3.16	2.16	1.12	10.81	17.12
Movement of TNW (Corporate)																				
Opening balance	19.15	16.98	42.04	57.75	113.47	124.19	135.17	146.50	158.10	169.87	181.70	193.48	205.10	216.45	227.38	232.34	235.61	237.88	239.11	249.75
Add																				
i Profit/ (-) Loss after Tax	-0.83	-0.84	0.00	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
ii Increase in Capital	3.27	25.90	15.71	51.44	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
iii Dec./ (-) 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	0.00	0.00	0.00	0.00
iv Inc./ (-) Dec. in Reserves																				
v Adjust prior year expenses	-4.61	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	0.00	0.00	0.00
Less																				
Div Paid (Inc 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	0.00	0.00	0.00	0.00
TNW	16.98	42.04	57.75	113.47	124.19	135.17	146.50	158.10	169.87	181.70	193.48	205.10	216.45	227.38	232.34	235.61	237.88	239.11	249.75	259.00

Annexure 09: Break Even Analysis

Break Even 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	FY 42	FY 43	FY 44	FY 45
Sales	48.03	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09
Raw Material	0.37	0.66	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	1.05
Spare and consumables	0.35	0.63	0.67	0.71	0.75	0.79	0.84	0.89	0.94	0.99	1.05	1.11	1.17	1.24	1.31	1.38	1.46
Power and Fuel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Direct Labour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Manufacturing Expenses	13.86	25.12	26.56	28.08	29.68	31.38	33.18	35.08	37.08	39.20	41.45	43.82	46.32	48.97	51.77	54.73	57.87
Depreciation	10.72	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	7.87	7.87
Selling General & Admin Expen	0.12	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Interest - WC	1.00	2.00	2.04	2.09	2.13	2.18	2.23	2.28	2.34	2.40	2.46	2.52	2.59	2.67	2.75	2.83	2.92
Interest - Term Loan	17.32	29.36	27.55	25.57	23.59	21.61	19.63	17.65	15.67	13.69	11.71	9.73	7.75	5.77	3.79	1.81	0.17
Others																	
Difference in stock	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	43.74	76.37	76.10	75.75	75.49	75.32	75.26	75.30	75.46	75.74	76.15	76.69	77.38	78.21	79.21	69.87	71.55
Fixed Cost	35.15	60.61	59.53	58.32	57.16	56.04	54.97	53.95	52.98	52.08	51.23	50.45	49.74	49.11	48.54	37.56	37.50
Variable Cost	8.59	15.76	16.57	17.43	18.33	19.28	20.29	21.35	22.48	23.66	24.92	26.24	27.63	29.11	30.67	32.31	34.05
Contribution	39.44	71.33	70.52	69.66	68.76	67.80	66.79	65.73	64.61	63.42	62.17	60.85	59.45	57.98	56.42	54.78	53.04
Operating Profit	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
Profit	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	10.39	9.71	8.87	7.88	17.22	15.54
Break Even sales	42.80	74.00	73.52	72.91	72.39	71.97	71.66	71.47	71.42	71.51	71.77	72.21	72.86	73.76	74.93	59.72	61.58
Break Even Sales (%)	89.12%	84.98%	84.43%	83.73%	83.13%	82.65%	82.29%	82.07%	82.01%	82.11%	82.41%	82.92%	83.67%	84.70%	86.04%	68.57%	70.71%
Cash Break Even	29.75	51.57	50.83	49.94	49.12	48.37	47.71	47.13	46.65	46.28	46.03	45.91	45.95	46.16	46.57	47.20	48.66
Cash Break Even (%)	61.95%	59.22%	58.37%	57.35%	56.41%	55.55%	54.78%	54.12%	53.57%	53.14%	52.85%	52.72%	52.76%	53.01%	53.48%	54.20%	55.87%
IF DECREASE IN SALES BY 5.00%																	
Contribution	37.04	66.97	66.16	65.30	64.40	63.45	62.44	61.38	60.25	59.07	57.82	56.49	55.10	53.62	52.07	50.42	48.68
Fixed Cost	35.15	60.61	59.53	58.32	57.16	56.04	54.97	53.95	52.98	52.08	51.23	50.45	49.74	49.11	48.54	37.56	37.50
Variable Cost	8.59	15.76	16.57	17.43	18.33	19.28	20.29	21.35	22.48	23.66	24.92	26.24	27.63	29.11	30.67	32.31	34.05
Break Even sales	43.30	74.88	74.44	73.89	73.42	73.07	72.83	72.72	72.75	72.94	73.31	73.89	74.69	75.76	77.14	61.63	63.73
Break Even Sales (%)	94.67%	90.28%	89.76%	89.09%	88.53%	88.10%	87.81%	87.68%	87.72%	87.95%	88.39%	89.09%	90.06%	91.35%	93.00%	74.31%	76.84%

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Break Even 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	FY 42	FY 43	FY 44	FY 45
Cash Break Even	33.26	57.67	56.88	55.94	55.06	54.28	53.59	53.00	52.52	52.17	51.97	51.92	52.06	52.40	52.99	53.84	55.66
Cash Break Even (%)	65.80%	62.91%	62.05%	61.02%	60.07%	59.21%	58.46%	57.81%	57.30%	56.92%	56.69%	56.64%	56.79%	57.17%	57.80%	58.74%	60.72%
IF INCREASE IN VARIABLE COST BY 5.00%																	
Contribution	39.01	70.54	69.69	68.79	67.84	66.84	65.78	64.66	63.48	62.24	60.92	59.54	58.07	56.52	54.89	53.16	51.34
Fixed Cost	35.15	60.61	59.53	58.32	57.16	56.04	54.97	53.95	52.98	52.08	51.23	50.45	49.74	49.11	48.54	37.56	37.50
Variable Cost	9.02	16.55	17.40	18.30	19.25	20.25	21.31	22.42	23.60	24.85	26.16	27.55	29.01	30.56	32.20	33.93	35.75
Break Even sales	43.28	74.83	74.40	73.84	73.37	73.01	72.77	72.65	72.68	72.87	73.23	73.80	74.60	75.66	77.02	61.53	63.62
Break Even Sales (%)	90.11%	85.93%	85.43%	84.79%	84.25%	83.84%	83.56%	83.43%	83.46%	83.67%	84.09%	84.75%	85.66%	86.88%	88.45%	70.65%	73.05%
Cash Break Even	30.08	52.15	51.43	50.58	49.78	49.07	48.44	47.91	47.48	47.16	46.97	46.92	47.04	47.35	47.87	48.64	50.27
Cash Break Even (%)	62.63%	59.88%	59.06%	58.08%	57.17%	56.35%	55.63%	55.01%	54.52%	54.15%	53.94%	53.88%	54.02%	54.37%	54.97%	55.85%	57.73%
IF RM COST ALONE INCREASE BY 5.00%																	
Contribution	39.42	71.29	70.48	69.62	68.72	67.76	66.75	65.69	64.57	63.38	62.13	60.80	59.41	57.93	56.37	54.72	52.99
Fixed Cost	35.15	60.61	59.53	58.32	57.16	56.04	54.97	53.95	52.98	52.08	51.23	50.45	49.74	49.11	48.54	37.56	37.50
Variable Cost	8.61	15.79	16.60	17.46	18.37	19.32	20.33	21.40	22.52	23.71	24.96	26.28	27.68	29.16	30.72	32.36	34.10
Break Even sales	42.82	74.04	73.56	72.95	72.43	72.02	71.71	71.52	71.46	71.56	71.82	72.26	72.92	73.82	75.00	59.77	61.64
Break Even Sales (%)	89.16%	85.02%	84.47%	83.77%	83.17%	82.70%	82.34%	82.12%	82.06%	82.17%	82.47%	82.98%	83.74%	84.77%	86.12%	68.63%	70.78%
Cash Break Even	29.77	51.60	50.86	49.97	49.15	48.40	47.74	47.16	46.68	46.31	46.06	45.95	45.99	46.20	46.61	47.25	48.70
Cash Break Even (%)	61.97%	59.25%	58.40%	57.38%	56.44%	55.58%	54.82%	54.15%	53.60%	53.18%	52.89%	52.76%	52.81%	53.05%	53.52%	54.26%	55.93%

Annexure 10: Sensitivity DSCR Analysis

Sensitivity DSCR Analysis																	
Particulars	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	Total
Decrease in Revenue by 0.00%																	
Net Sales	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	1393.36
Term Loan Interest	29.36	27.55	25.57	23.59	21.61	19.63	17.65	15.67	13.69	11.71	9.73	7.75	5.77	3.79	1.81	0.17	235.06
Decrease in sales by	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	1393.36
Difference	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	0.00
Cash Accrual	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
Adj Cash Accrual	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
T.L. Repayment	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	277.24
Net DSCR	2.70	1.59	1.61	1.62	1.63	1.63	1.63	1.62	1.61	1.59	1.26	1.17	1.12	1.06	1.00	2.22	1.51
Gross DSCR	1.46	1.24	1.25	1.27	1.29	1.31	1.32	1.34	1.35	1.36	1.17	1.12	1.09	1.05	1.00	2.20	1.28
Increase in Operating cost by 0.00%																	
Net Sales	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	1393.36
Operating Cost	25.79	27.25	28.79	30.43	32.15	33.97	35.89	37.93	40.07	42.34	44.74	47.27	49.94	52.77	55.76	58.91	643.99
Operational cost increase by	25.79	27.25	28.79	30.43	32.15	33.97	35.89	37.93	40.07	42.34	44.74	47.27	49.94	52.77	55.76	58.91	643.99
Difference	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	0.00
Cash Accruals	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
Adj Cash Accrual	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
T.L. Repayment	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	277.24
Net DSCR	2.70	1.59	1.61	1.62	1.63	1.63	1.63	1.62	1.61	1.59	1.26	1.17	1.12	1.06	1.00	2.22	1.51
Gross DSCR	1.46	1.24	1.25	1.27	1.29	1.31	1.32	1.34	1.35	1.36	1.17	1.12	1.09	1.05	1.00	2.20	1.28
Increase in Raw Material cost by 0.00%																	
Net Sales	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	1393.36
Raw Material Cost	0.66	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	1.05	13.69
RM cost increase by	0.66	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	1.05	13.69
Difference	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	0.00
Cash Accruals	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
Adj Cash Accrual	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
T.L. Repayment	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	277.24
Net DSCR	2.70	1.59	1.61	1.62	1.63	1.63	1.63	1.62	1.61	1.59	1.26	1.17	1.12	1.06	1.00	2.22	1.51
Gross DSCR	1.46	1.24	1.25	1.27	1.29	1.31	1.32	1.34	1.35	1.36	1.17	1.12	1.09	1.05	1.00	2.20	1.28

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Sensitivity DSCR Analysis																	
Particulars	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	FY 45	Total
Increase in Raw Material cost & Decrease in Sales by 1.00%																	
Net Sales	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	1393.36
Decrease in sales by	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	86.21	1379.43
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	0.87	0.87	0.87	13.93
R M Cost	0.66	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	1.05	13.69
RM cost increase by	0.67	0.70	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	1.06	13.83
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	0.01	0.01	0.01	0.14
Cash Accruals	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	418.51
Adj. Cash Accruals	28.21	28.48	28.83	29.09	29.26	29.32	29.28	29.12	28.84	28.43	22.45	20.77	19.77	18.72	17.63	16.24	404.44
T.L. Repayment	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	277.24
Net DSCR	2.62	1.54	1.56	1.57	1.58	1.59	1.58	1.58	1.56	1.54	1.21	1.12	1.07	1.01	0.95	2.11	1.46
Gross DSCR	1.43	1.22	1.23	1.25	1.27	1.28	1.30	1.31	1.32	1.33	1.14	1.09	1.05	1.01	0.96	2.08	1.25

Annexure 11: DSCR Analysis

DSCR 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	FY 42	FY 43	FY 44	FY 45	Total
Net Sales	48.03	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	87.09	1441.39
Sources																		
Cash Accrual	15.01	29.09	29.36	29.71	29.97	30.14	30.20	30.16	30.00	29.72	29.31	23.33	21.65	20.65	19.60	18.51	17.12	433.51
Capital subsidy																		
TL Interest	17.32	29.36	27.55	25.57	23.59	21.61	19.63	17.65	15.67	13.69	11.71	9.73	7.75	5.77	3.79	1.81	0.17	252.39
Total Sources	32.33	58.44	56.90	55.28	53.56	51.75	49.83	47.81	45.67	43.41	41.02	33.06	29.40	26.42	23.40	20.32	17.29	685.90
Obligations																		
TL Instalment	-	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	277.24
Total Repayment obligation	-	10.78	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	7.70	277.24
TL Interest	17.32	29.36	27.55	25.57	23.59	21.61	19.63	17.65	15.67	13.69	11.71	9.73	7.75	5.77	3.79	1.81	0.17	252.39
Total	17.32	40.14	46.03	44.05	42.07	40.09	38.11	36.13	34.15	32.17	30.19	28.22	26.24	24.26	22.28	20.30	7.87	529.63
Gross DSCR	1.87	1.46	1.24	1.25	1.27	1.29	1.31	1.32	1.34	1.35	1.36	1.17	1.12	1.09	1.05	1.00	2.20	1.30
Net DSCR	-	2.70	1.59	1.61	1.62	1.63	1.63	1.63	1.62	1.61	1.59	1.26	1.17	1.12	1.06	1.00	2.22	1.56

Annexure 12: Margin of Security

MARGIN OF SECURITY																			
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	FY 42	FY 43	FY 44	FY 45
WDV of Fixed Assets	172.89	293.83	384.36	365.98	347.61	329.23	310.86	292.49	274.11	255.74	237.36	218.99	200.62	182.24	163.87	145.49	127.12	119.25	111.38
TL Outstanding	129.52	234.22	277.24	266.46	247.98	229.49	211.01	192.53	174.05	155.56	137.08	118.60	100.11	81.63	63.15	44.67	26.18	7.70	0.00
Margin	43.38	59.60	107.12	99.52	99.63	99.74	99.85	99.96	100.07	100.18	100.28	100.39	100.50	100.61	100.72	100.83	100.94	111.55	111.38
Security Margin (%)	25.09	20.29	27.87	27.19	28.66	30.30	32.12	34.18	36.51	39.17	42.25	45.84	50.10	55.21	61.46	69.30	79.40	93.54	100.00
Average Security Margin (%)	47.29																		

Annexure 13: 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	FY 42	FY 43	FY 44	FY 45
Cash outflow																				
Capital employed	18.07	154.57	120.42	102.99																
Total (a)	18.07	154.57	120.42	102.99	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
Available Cash Flow																				
PAT	-5.44	-0.84	0.00	4.29	10.71	10.98	11.34	11.60	11.76	11.83	11.78	11.62	11.34	10.94	4.96	3.27	2.27	1.23	10.64	9.25
Finance Cost	0.00	0.00	0.00	0.00	18.32	31.36	29.59	27.65	25.72	23.79	21.86	19.93	18.01	16.09	14.17	12.26	10.35	8.44	6.54	4.64
Depreciation	0.00	0.00	0.00	0.00	10.72	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	18.37	7.87
Less: Increase in Capex																				
Salvage Value & other assets																				160.20
Free cash flow	-5.44	-0.84	0.00	4.29	39.75	60.72	59.30	57.63	55.86	53.99	52.02	49.93	47.73	45.40	37.50	33.90	30.99	28.05	35.55	181.97
Net Cash inflow	-23.51	155.42	120.42	-98.70	39.75	60.72	59.30	57.63	55.86	53.99	52.02	49.93	47.73	45.40	37.50	33.90	30.99	28.05	35.55	181.97
IRR (after tax)	8.79%																			

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



తెలంగాణ పునరుద్ధరణీయ శక్తి 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 SVGPPPL on 24.06.2025

4) This office issued a letter dated.17.04.2026 extension of financial Closure.

5) Lr No.SVGPPPL/TSREDCO/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, Banjarahills,
Hyderabad – 500 034.



తెలంగాణ రాష్ట్ర పునరుద్ధరణీయ ఇంధన వనరుల అభివృద్ధి సంస్థ లిమిటెడ్
Telangana State Renewable Energy Development Corporation Ltd.
(A State Govt. 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
E-mail : info@tnredcl.telangana.gov.in Web : www.tnredcl.telangana.gov.in

Ref: TSREDCO/MSW/VGR/16-17/303

Date:22.06.2019

PROCEEDINGS

Sub:- For enhancement capacity from 12 MW to 14 MW RDF based Power Project based at Yacharam Village & Mandal, Ranga Reddy District by M/s. Sri Venkateswara Green Power Projects Limited.,- Reg.

- Ref:-** 1. Exiting Agreement between TNREDCL(TSREDCO) and M/s. Sri Venkateswara Green Power Projects Ltd for setting up of 12 MW RDF based Power Project dated 15.10.2016
2. Minutes of the 228th Board Meeting held on 5.11.2012
3. Application for enhance capacity from 12 MW to 14 MW RDF based Power Project M/s. Sri Venkateswara Green Power Projects Ltd., dt.30.04.2019
4. letter from M/s. Sri Venkateswara Green Power Projects Ltd., dt.06.05.2019
5. In- Principle sanction reference dated 08-05-2019

In the reference (1st) cited, the developer entered MoU with TSREDCO for setting up of 12 MW RDF based Power Project under Integrated Municipal Solid Waste Management Facility by M/s. Sri Venkateswara Green Power Projects Limited at Yacharam Village & Mandal, Ranga Reddy District.

Further, the developer has approached this office for enhancement from 12 MW to 14 MW with the latest technology and supporting documents with the same quantity of fuel as per the concession agreement with GHMC. After careful examination of the documents submitted by the developer, this office has considered the request of developer for enhancement from 12 MW to 14 MW RDF based Power Project.

The V.C. & Managing Director, TSREDCO 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, vide ref. (2nd) cited above.

In ref.(3rd) cited above, the developer has submitted the Application fee for enhancement capacity from 12 MW to 14 MW in the form of demand drafts for an amount of Rs.59,000/- including GST for sanction of the project.

In ref. (4th) cited above, the developer has submitted the Sanction fee & Bank Guarantee for enhancement capacity from 12 MW to 14 MW RDF based Power project.

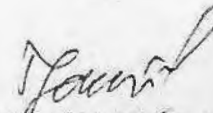
In principle sanction proceeding were issued by this office vide reference (5th) cited above.

Hence, sanction is hereby accorded to M/s. Sri Venkateswara Green Power Projects Limited, Hyderabad to establish the Power plant by Converting the MSW to RDF under Integrated Municipal Solid Waste Management Facility with a capacity of 14 MW at Yacharam (V&M) Ranga Reddy District for generation of power for captive use / sale of power to TS DISCOM/TS 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 developer shall abide by the regulations of RE Power Projects of the Telangana State Electricity Regulatory Commission (TSERC) shall be followed. The developer shall approach TSERC for obtaining license/exemption 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 DISCOM/TS TRANSCO. The TSREDCO cannot give guarantee either the power purchase price of TS DISCOM/TS TRANSCO or 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 DISCOM/TS TRANSCO. The Developer will have to proceed at his own risk with regard to either Regulatory clearance for supply license or power purchase agreement with TS DISCOM/TS TRANSCO.
2. 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.
3. The Project Developer shall follow the guidelines issued by MNRE /State Government, Dept./ GHMC/ TSREDCO from time to time.
4. The developer shall use the technology for generation of power as submitted in DPR for sanction of the projects and same DPR has to be approved/ financial closure by financial banks. In case of any deviation, the sanction will be atomically canceled.
5. The developer shall complete the Financial closure with in a period of six (6) months from the date of signing of the agreement or with such extended period as granted by TSREDCO on the request of the developer on reasonable grounds.
6. The developer shall execute and commission the power project for generation of power with in twenty(24) months from signing of the agreement or with such extended period as granted by TSREDCO on the request of the developer on reasonable grounds
7. The Project Developer shall submit monthly progress reports to TSREDCO on status of the Project on or before 10th of Every Month.
8. The Project Developer is advised to submit the copy of MOU with the technology provider to TSREDCO.
9. The Developer shall follow the norms of TS Pollution Control Board as well as CPCB norms from time to time.

10. The company shall adhere to the MSW (Management & Handling) rules 2000, 2016 and other GHMC/ Govt. rules and regulations issued from time to time.
11. The developer shall execute and commission the power project within the stipulated time as per the agreement with GHMC, Hyderabad concerned ULB's/ Municipalities and other related departments, if any.
12. There shall be no financial assistance provided by TSREDCO. However, the developer shall be entitled for any grant / subsidy or any assistance in terms of the policies/ guidelines of the govt. of India/ Govt. of Telangana.
13. The Project Developer is permitted to use the Municipal Solid Waste as per the Agreement entered with G.H.M.C. Hyderabad and also as per MNRE norms.
14. The Developer should submit the concessional Agreement entered with GHMC, Hyderabad for supply of Municipal solid waste.
15. The Developer shall submit the copies of the approvals/licenses obtained with other related departments from time to time to TSREDCO for information and record.
16. Installation of second hand or used machinery is not permitted.
17. The developer should take the technical team of TSREDCO members to one of proven technology running plant, Manufacturing locations of the Major equipment and suppliers.


VC & MANAGING DIRECTOR

To,
M/s. Sri Venkateswara Green Power Projects,
5-9-22, Flat No 303, 3rd floor, My Home Sarovar Plaza
Secretariat road, Saifabad,
Hyderabad. 500 063.

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 (U&I), MNRE, Govt. of India, New Delhi.
CC to the District Collector, Ranga Reddy District.
CC to the Director, (Engg), TSERC, Singareni Bhavan, Near Ayodhya Hotel, Lakidikapool, Hyderabad.
CC to the District Manager, TSREDCO, Rangareddy.
CC to the C & MD, TSSPDCL, Hyderabad.



తెలంగాణ నూతన మరియు పునరుద్ధరణీయ ఇంధన వనరుల అభివృద్ధి సంస్థ లిమిటెడ్

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

5-8-207/2, 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 (U&I), 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, Lakidikapool, Hyderabad.
CC to the District Manager, TNREDCL, Ranga Reddy.
CC to the C & MD, TSSPDCL, Hyderabad.

// F.B.O. //

General Manager (EAG)

SCHEDULE-1

Particulars of the Project (Referred to in the Preamble to the Agreement)

Name of the Project and Address	Injection Voltage	Interconnection Point	Type of Project	Capacity of the Project
M/s. Sri Venkateswara Green Power Projects Limited Regd. Office at Flat No. 303, My Home Sarovar Plaza, Secretariat Road, Saifabad, Hyderabad - 500063.	33 KV	33 KV Level at 132/33 KV Takkallapally (Yacharam) SS	Waste to Energy Power Project using MSW (Processed Non-Hazardous MSW)	14 MW*

(*) Out of which ____ MW capacity is for auxiliary consumption and balance ____ MW capacity is for export to grid for sale to DISCOM at Interconnection Substation. Auxiliary Consumption is ____% of Installed Capacity (**as decided TGERC**).

SCHEDULE-2

TGREDCO vide

1. Ref: TGREDCO/MSW/SVGR/2025-26/266, Date.22.05.2026.
2. Ref: TSREDCO/MSW/VGR/16-17/303, Date.22.06.2019.
3. Ref: TNREDCL/MSW/VGR/2016-17, Date.15.10.2016.

SCHEDULE-3

Agreement between

1. TSREDCO & M/s. Sri Venkateswara Green Power Projects Limited, dt.25.06.2019.
2. TNREDCL & M/s. Sri Venkateswara Green Power Projects Limited, dt.15.10.2016.

SCHEDULE-4

T.O.O. (CE-Construction-2) Ms.No.488, dated 17.03.2012

SCHEDULE-5

An Undertaking by M/s. SVGPPPL (Undertaking Declaration dated 24.09.2026) in accordance with clause 13.5 of PPA

SCHEDULE-6

1. Concession Agreement dated 10.11.2010 between GHMC & M/s. SVGPPPL
2. MSW Supply Agreement dated 24.06.2025 between GHMC, HIMSW & M/s. SVGPPPL

**ARTICLE 15
DISPUTE RESOLUTION**

- 15.1 Each party shall designate in writing to the other party a representative, who shall be authorized to resolve any dispute arising under this agreement in an equitable manner.
- 15.2 Following notice by one party to the other setting out the particulars of the dispute, if the designated representatives are unable to resolve a dispute under this agreement within 15 days, such dispute shall be referred by such representatives to a senior officer designated by the company and a senior officer designated by the TGSPDCL respectively, who shall attempt to resolve the dispute within a further period of 15 days.
- 15.3 The parties hereto agree to use their best efforts to attempt to resolve all disputes arising hereunder promptly, equitably and in good faith and further agree to provide each other with reasonable access during normal business hours to any and all non-privileged records, information and data pertaining to any such dispute.
- 15.4 Failing resolution of the disputes in terms of above provisions or even otherwise, any party may approach the TGERC to adjudicate upon the dispute in terms of section 86(1)(f) of the Act, 2003.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day, month, and year first above written, at Hyderabad.

for and behalf of

for and behalf of

**SOUTHERN POWER DISTRIBUTION
COMPANY OF TELANGANA LIMITED**

**M/s. SRI VENKATESWARA GREEN
POWER PROJECTS LIMITED**

Witness by:

Witness by:

1.

1.

2.

2.

ARTICLE 14
DEFAULT

- 14.1 The company shall achieve COD as stipulated by GHMC/TGREDCO from time to time, default of which, the agreement is liable for termination and the same can be done at the option of DISCOM with due notice.
- 14.2 In the event, DISCOM commits a breach of any of the terms of this agreement, the company shall be entitled to specific performance of this agreement or claim such damages as would be available under law or both, at its option, by giving 30 days notice to DISCOM.
- 14.3 In the event, company commits a breach of any of the terms of this agreement, the DISCOM shall be entitled to specific performance of this agreement or claim such damages as would be available under law or both, at its option, by giving 30 days notice to the company.
- 14.4 If the default continues for a period of 30 days or more, either party will have a right to issue a preliminary notice for termination of this agreement. If the default is not cured within 30 days thereafter, either party can terminate this agreement and can claim damages at its option.
- 14.5 In the event of cancellation of the project allotted to the company by TGREDCO for any reason, the PPA with DISCOM will automatically stand cancelled.

ARTICLE 13 OTHER PROVISIONS

The company shall abide by the following conditions:

13.1 **Usage of Secondary Fuel:** as per CERC RE Tariff Regulations.

13.2 **Inspection of the Project regularly:** The DISCOM which has agreed to purchase the power shall inspect the power project regarding the use of fuel with the help of a team of Engineers at any time if DISCOM suspects that the generator has not been using the desired fuel as agreed for generation of power.

If the company is using any other fuel other than the fuel by converting MSW to RDF under an Integrated Municipal Solid Waste Management Facility for generation of power except for starting the operations, the DISCOMs is at liberty to initiate steps for termination of the agreement with the developer in accordance with Article 14 of this agreement or by adopting any other procedure known to law.

13.3 **Incentives:** Any incentives, including but not limited to tipping fees, interest rates, government grants, generation based incentives, CFA shall be passed on to DISCOM.

13.4 **Scheduling and Dispatch:** The waste-to-energy power projects in the state of Telangana shall be treated as must-run stations, thus are not subjected to the Merit Order Dispatch. The generating company has to furnish the day-ahead schedule and maintain it. However, for the purpose of grid stability and discipline in the event of contingencies arise and when no other means of grid discipline is available, the schedule can be changed by the State Load Dispatch Centre (SLDC) keeping in view the CERC (Indian Electricity Grid Code) Regulation, 2010 (as amended up-to-date) and CERC (Unscheduled Interchange and related matters), Regulations, 2009 including amendments thereto.

13.5 The Company shall furnish **an undertaking** (which forms part of this Agreement) that the tariff applicable shall be as determined by TGERC, along with other terms & conditions like payment for energy supplied beyond the threshold PLF, passing of Incentives, Grants etc received by the Generator to the DISCOM in case the Commission determines Tariff in 'Cost Plus approach', Reimbursement of Tipping Fee etc, upon the Petition to be filed by the Company u/s 62 of the Act, subsequent to the accord of consent by the State ERC for the power purchase under this PPA executed by the Company & DISCOM.

ARTICLE 12
DATA ACQUISITION SYSTEM & DAY-AHEAD SCHEDULES

- 12.1 The company shall establish data acquisition system with necessary communication facilities in line with TGTRANSCO procedures and ensure that the online data shall be completely integrated with State Load Dispatch Center (SLDC) within one month from date of COD. The company shall furnish block-wise availability on day ahead basis to SLDC and abide by the scheduling procedures as per the orders, regulations, policies, suo-motu orders, directions issued by the Indian Grid Code and State Grid Code, CEA, MNRE any other statutory government agency etc., from time to time.
- 12.2 The revision of declared capacity by the generator having two part tariff and requisition by beneficiary for the remaining period of the day shall be permitted with advance notice. Revised schedules/declared capacity in such cases shall become effective from the 4th time block, counting the time block in which the request for revision has been received to be the first one.

such obligations under this agreement and the agreement remains effective with respect to the transferee;

ii. if—

(a) the company becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such proceedings remain uncontested for a period of thirty (30) days, or

(b) any winding up or bankruptcy or insolvency order is passed against the company, or

(c) the company goes into liquidation or dissolution or has a receiver or any similar officer appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to law,

Provided that a dissolution or liquidation of the company will not be a company event of default if such dissolution or liquidation is for the purpose of a merger, consolidation or reorganization and where the resulting company retains creditworthiness similar to the company and expressly assumes all obligations of the company under this agreement and is in a position to perform them; or

iii. the company repudiates this agreement and does not rectify such breach within a period of thirty (30) days from a notice from DISCOM in this regard; or

iv. except where due to any DISCOM's failure to comply with its material obligations, the company is in breach of any of its material obligations pursuant to this agreement, and such material breach is not rectified by the company within thirty (30) days of receipt of first notice in this regard given by DISCOM; or

v. occurrence of any other event which is specified in this agreement to be a material breach/default of the company.

vi. default has occurred under any of the financing agreements and any of the lenders to the project has recalled its financial assistance and demanded payment of the amounts outstanding under the financing documents or any of them as applicable and the lenders shall issue a written notice to the DISCOM to this effect.

11.4 In case of occurrence of an event of default as set out in clauses 11.2 & 11.3 of this agreement, the non-defaulting party shall issue a default notice to the defaulting party in accordance with Article 14 of this agreement.

constitute the event of default on the part of defaulting DISCOM ("DISCOM Event of Default"):

- (i) DISCOM fails to pay (with respect to payments due to the company according to Article 2), for a period of ninety (90) days after the due date of payment, or
- (ii) DISCOM repudiates this agreement and does not rectify such a breach within a period of thirty (30) days from a notice in writing from the company in this regard; or
- (iii) except where due to any company's failure to comply with its obligations, DISCOM is in material breach of any of its obligations pursuant to this agreement, and such material breach is not rectified by DISCOM within thirty (30) days of receipt of notice in writing in this regard from the company to DISCOM; or
- (iv) if:—
 - DISCOM becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such proceedings remain uncontested for a period of thirty (30) days, or any winding up or bankruptcy or insolvency order is passed against DISCOM, or
 - DISCOM goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to law, Provided that it shall not constitute a DISCOM Event of Default, where such dissolution or liquidation of DISCOM or DISCOM is for the purpose of a merger, consolidation or reorganization and where the resulting entity has the financial standing to perform its obligations under this agreement and has creditworthiness similar to DISCOM and expressly assumes all obligations of DISCOM and is in a position to perform them; or
- (v) If DISCOM is subject to any of the above defaults and DISCOM does not designate another DISCOM for purchase of power; or
- (vi) Occurrence of any other event which is specified in this agreement to be a material breach or default of DISCOM.

11.3 Company Event of Default:

11.3.1 The occurrence and continuation of any of the following events, unless any such event occurs as a result of a force majeure event or a breach by DISCOM of its obligations under this agreement, shall constitute a company event of default ("Company Event of Default"):

- i. if—
 - (a) the company assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the project in contravention of the provisions of this agreement; or
 - (b) the company transfers or novates any of its rights and/or obligations under this agreement, in a manner contrary to the provisions of this agreement; except where such transfer is in pursuance of a law; and does not affect the ability of the transferee to perform, and such transferee has the financial capability to perform, its obligations under this agreement or is to a transferee who assumes

ARTICLE 11

FORCE MAJEURE

11.1 Definition of Force Majeure:

- (a) "Force Majeure" shall mean any event or circumstance or combination of events or circumstances that materially and adversely affects the performance by either party (the "affected party") of its obligations pursuant to the terms of this agreement (including by preventing, hindering or delaying such performance), but only if and to the extent that such events and circumstances are not within the affected party's reasonable control and were not reasonably foreseeable and the effects of which the affected party could not have prevented by prudent utility practices or, in the case of construction activities, by the exercise of reasonable skill and care. Any events or circumstances meeting the description of force majeure which have the same effect upon the performance of any of the company power project setup and which therefore materially and adversely affect the ability of the project or, as the case may be, the DISCOM to perform its obligations hereunder shall constitute force majeure with respect to the company or the DISCOM, respectively.
- (b) Force majeure circumstances and events shall include the following events to the extent, that they or their consequences satisfy the above requirements.
 - (i) Non political events such as acts of GOD including but not limited to any storm, flood, drought, lightning, earthquake or other natural calamities, fire, accident, explosion, strikes, labour difficulties, epidemic, plague or quarantine, air crash, shipwreck, train wrecks or failure ("Non Political Events").
 - (ii) Indirect political events such as acts of war sabotage, terrorism or act of public enemy, blockades, embargoes, civil disturbance, revolution or radioactive contamination ("Indirect Political Events").
 - (iii) Direct political events such as any government agencies' or the DISCOM's unlawful or discriminatory delay, modification, denial or refusal to grant or renew, or any revocation of any required permit or change in law (Direct Political Events).
 - (iv) In the event of a delay in COD due to:
 - (a) Force majeure events affecting the company; or
 - (b) DISCOM event of default as defined in 11.2, the scheduled COD shall be deferred, for a reasonable period but not less than 'day-to-day' basis subject to a maximum period of 12 months, to permit the company or to overcome the effects of the force majeure events affecting the company or DISCOM, or till such time such event of default is rectified by the Company or the DISCOM, whichever is earlier. Provided further that, the validity of performance bank guarantee shall be extended suitably covering the extended period.

11.2 DISCOM Event of Default

- 11.2.1 The occurrence and the continuation of any of the following events, unless any such event occurs as a result of a force majeure event or a breach by the company of its obligations under this agreement, shall

10.12 **Assignment and Financing:** Neither party shall assign this agreement or any portion thereof to any third party without the prior written consent of the other party which consent shall not be unreasonably withheld.

ARTICLE 10
SPECIAL PROVISIONS

- 10.1 The waiver of any breach or failure to enforce any of the terms, covenants or conditions of this agreement shall not in any way affect, limit, modify or waive the future enforcement of such terms, covenants or conditions.
- 10.2 No oral or written modification of this Agreement either before or after its execution shall have any force or effect unless such modification is in writing and signed by the duly authorized representatives of the company and the DISCOM, subject to the condition that any further modification of the agreement shall be done only with the prior approval of TGERC. However, the amendments to the agreement as per the respective orders of TGERC from time to time shall be carried out. All the conditions mentioned in the agreement are with the consent of TGERC.
- 10.3 However, in respect of power evacuation, the voltage levels for interfacing with TGTRANSCO/DISCOM's grid will be as per Article 1.32. The costs of interconnection facilities have to be borne by the company as per Article 3.
- 10.4 The invalidity or unenforceability for any reason of any provision of this agreement shall not prejudice or affect the validity or enforceability of any other provision of this agreement.
- 10.5 The failure of any party to insist in one or more instances upon the strict performance of any of the provisions of this agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or relinquishment of any such rights but the same shall continue in full force and effect.
- 10.6 Unless the context otherwise requires, every arrangement, procedure or any other matter which is, under any of the provisions of this agreement, required to be mutually agreed upon between the parties, shall be concluded by a written agreement between the parties not later than the date specified in the relevant clause of this agreement, subject to the consent of the TGERC.
- 10.7 This agreement, including Schedule 1, 2, 3, 4, 5 & 6 attached hereto, constitute the entire agreement between the parties with respect to the subject matter hereof, and there are no oral or written understandings, representations or commitments of any kind, express or implied, not set forth herein.
- 10.8 The headings contained herein are included solely for the convenience of the parties and are not to be used as a basis for interpreting the various clauses of this agreement.
- 10.9 That each of the parties agree to act in good faith in implementing the terms and conditions of this agreement and in carrying out their respective obligations hereunder.
- 10.10 In the event of the merger or reorganization of DISCOM, if the resulting entity is able to perform DISCOM's obligations hereunder in no less a manner than DISCOM, the resulting entity shall take the right and responsibility for performance of DISCOM's obligation.
- 10.11 In the event of the merger or reorganization of company, if the resulting entity is able to perform company's obligations hereunder in no less a manner than company, the resulting entity shall take the right and responsibility for performance of company's obligation.

ARTICLE 9
NOTICES

- 9.1 Except as otherwise expressly provided in this agreement, all notices or other communications which are required or permitted hereunder shall be in writing and sufficient, if delivered personally or sent by registered post or certified mail, telecopy, telex addressed as follows:

If to the Company:

Attention :
Telephone No. :
Fax No. :
E-mail :

If to the DISCOM:

Attention :
Fax No. :
Telephone No. :
e-mail :

- 9.2 All notices or communications given by fax or email shall be confirmed by depositing a copy of the same in the post office in an envelope properly addressed to the appropriate party for delivery by registered or certified mail having proof of mailing the same. All notices shall be deemed delivered upon receipt, including notices given by fax or email regardless of the date the confirmation of such notice is received.
- 9.3 Any party may by written notice change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

ARTICLE 8
DURATION OF AGREEMENT

This agreement shall be effective upon its execution on Rs.100 No-Judicial Stamp Paper pursuant to the consent of TGERC and delivery thereof between parties hereto and shall continue in force from the COD and until the twentieth (20th) anniversary that is for a period of twenty (20) years from the COD. This agreement may be renewed for such further period of time on such terms and conditions as may be mutually agreed upon by the parties, 90 days prior to the expiry of the said period of twenty years, subject to the consent of the TGERC.

ARTICLE 7 UNDERTAKING

7.1 The company shall be responsible:

- (i) For the proper maintenance of the project in accordance with established prudent utility practices.
- (ii) For the operation, maintenance, overhaul of the plant, equipment, works, switch yard and transmission lines and equipment up to the interconnection Substation in close coordination with the DISCOM.
- (iii) The company shall furnish the generation and maintenance schedules every year.
- (iv) For making all payments on account of any taxes, cesses, duties, or levies imposed by any government or competent statutory authority on the land, equipment, material or works of the project or on the energy generated or consumed by the project or the company or on the income or assets of the company.
- (v) For furnishing any incentives/concessions/benefits received from GoI/GoTS on pass through to DISCOM, as to be decided by State Commission while deciding/determining the tariff applicable upon the petition filed by the Company u/s 62 of the Act.
- (vi) For obtaining necessary approvals, permits or licenses for operation of the project and sale of energy to TGTRANSCO/DISCOM there from under the provision of the relevant laws.
- (vii) To share Clean Development Mechanism ("CDM") benefits with the DISCOM annually as provided in CERC (Terms and Conditions for the Tariff determination from Renewable Energy Sources) Regulations, 2012, and as amended from time to time to the extent indicated below:

The proceeds of carbon credit from the approved CDM Project shall be shared between the Company and the DISCOM in the following manner, namely,

- a) 100% of the gross proceeds on account of CDM benefits to be retained by the company in the first year after the date of commercial operation of the generating station;
- b) in the second year after COD, the share of the DISCOM shall be 10% which shall be progressively increased by 10% every year i.e., in the third year after COD it shall be 20% and so on till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the company/power developer and the DISCOM.
- (viii) For payment of any charges as fixed by TGERC from time to time and levied by the DISCOM.
- (ix) The company has to comply with the provisions of the TG Code of Technical Interface (Grid Code).

7.2 The DISCOM agrees:

- (i) to make all reasonable efforts for making arrangements for evacuation of power from the project at the company's expense which has been completed prior to the COD of the project subject to Article 3.
- (ii) for purchase of delivered energy from the project as per Article 2.2.
- (iii) for providing grid support for the essential load of the power plant.

ARTICLE 6
BILLING AND PAYMENT

- 6.1 For delivered energy, the company shall furnish a bill to the DISCOM calculated at the tariff provided for in Article 2, in such form as may be mutually agreed upon between the DISCOM and the company, for the billing month on or before the 2nd working day following the meter reading date.
- 6.2 Any payment made beyond the due date of payment, the DISCOM shall pay simple interest at prevailing Marginal Cost of Funds Based Lending Rate (MCLR) of State Bank of India and in case this rate is increased/reduced, such an increased/reduced rate is applicable from the date of such notification or any new base rate published by RBI from time to time, whichever is less.
- 6.3 The DISCOM shall make payment for the bills on monthly basis as per Article 6.1.
- 6.4 **Billing disputes:** The DISCOM shall pay the bills of the company promptly subject to the provisions in Article 2, and in accordance with tariff determined by TGERC from time to time.
- The DISCOM shall notify the company in respect of any disallowed amount on account of any dispute as to all or any portion of the bill. The company shall immediately take up issue with all relevant information with DISCOM which shall be rectified by the DISCOM, if found satisfactory. Otherwise the DISCOM shall notify its rejection of the disputed claim within reasonable time with reasons recorded in writing there for. The dispute may also be decided by mutual agreement.
- 6.5 All payments by the DISCOM to the company hereunder shall be made to such address as may be designated by the company to the DISCOM in writing from time to time.

Address :
Telephone No. :
Fax No. :

- 6.6 The DISCOM is at liberty to make direct payment using the modern financial online transactional facilities including but not limited to RTGS and NEFT wherever it is permissible and acceptable to company, as are available in the banking and financial sector, for which the company may provide the necessary details as and when requisitioned by the DISCOM.

ARTICLE 5
CHANGE IN LAW

5.1 "Change in Law" means the occurrence of any of the following events after the date on which PPA is signed, resulting into any additional recurring/non-recurring expenditure by the company or any income to the company, the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any law, including rules and regulations framed pursuant to such law and any notifications issued there under.

- (a) change in the interpretation or application of any law by any Indian governmental instrumentality having the legal power to interpret or apply such law, or any competent court of law, the imposition of a requirement for obtaining any consents, clearances and permits which was not required earlier;
- (b) a change in the terms and conditions prescribed for obtaining any consents, clearances and permits or the inclusion of any new terms or conditions for obtaining such consents, clearances and permits; except due to any default of the company;
- (c) any change in tax or introduction of any tax made applicable for supply of power by the company as per the terms of this agreement but shall not include:
 - (i) any change in any withholding tax on income or dividends distributed to the shareholders of the company, or
 - (ii) change in respect of UI Charges or frequency intervals by CERC or TGERC, or
 - (iii) any change on account of regulatory measures by the CERC or TGERC including calculation of availability.

generator and switchgear protection against such faults. The DISCOM is not responsible for damage, if any, caused to the project's generator and allied equipment during parallel operation of the generator with the TGTRANSCO/DISCOM's grid.

19. The company shall make a good faith effort to operate the project in such a manner as to avoid fluctuations and disturbances to the TGTRANSCO/DISCOM's grid due to parallel operation with the grid.
20. The company shall control and operate the project. The SLDC/TGTRANSCO/DISCOM shall only be entitled to request the company to reduce electric power and energy deliveries from the project during a system emergency, and then only to the extent that in the SLDC/TGTRANSCO/DISCOM's reasonable judgment such a reduction will alleviate the emergency. The SLDC/TGTRANSCO/DISCOM shall give the company as much advance notice of such a reduction as is practicable under the circumstances and shall use all reasonable efforts to remedy the circumstance causing the reduction as soon as possible. Any reduction required of the company hereunder shall be implemented in a manner consistent with safe operating procedures.
21. The company has to establish protection system, online data scheme, its allied equipment to conform with grid code from time to time. Also, the protection system shall conform with the TGTRANSCO/DISCOM norms.
22. The Company shall abide by the extant Rules and Regulations issued by TGERC from time to time including but not limited to metering, scheduling of energy etc.

interconnection point during the applicable period shall be taken as the error to be applied for correction.

7. If both the main and check meter fail to record or if any of the PT fuses are blown out, then the energy will be computed on a mutually agreeable basis for that period of defect.
8. The billing meters (main, check and standby) shall be tested and calibrated utilizing a standard meter. The standard meter shall be calibrated once in every year at the approved laboratory by Government of India/Government of Telangana, as per General Terms & Conditions of Supply (GTCS).
9. All the billing meter (main, check and standby) tests shall be jointly conducted by the authorized representatives of both parties and the results and correction so arrived at mutually will be applicable and binding on both the parties.
10. On the metering date, each month meter readings shall be taken (and an acknowledgement thereof signed) by the authorized representatives of both parties.
11. Within six (6) months, following the execution of this agreement, the company and the TGTRANSCO/DISCOM shall mutually agree to technical and performance specifications (including, but not limited to, the metering configuration for the project) concerning the design and operation of the facilities required to be installed by the company in order for the company to operate in parallel with the TGTRANSCO/DISCOM's grid. Thereafter, any change in such specifications shall be subject to mutual agreement of the parties.
12. The project shall be operated and maintained in accordance with good and generally prudent accepted utility standards with respect to synchronizing, voltage, frequency and reactive power control.
13. The company shall install communication system involving latest technology on information in the project and at the designated sub-station at the cost of the company, to establish contact with the sub-station to which it is interconnected for co-ordination of the project operation. The regular maintenance of technologies on information is to be carried out by the company at its cost.
14. Voltage regulation shall be such as to enable continued paralleling and synchronization with the grid voltage at the point of interconnection.
15. The equipment of the company shall be designed for fluctuations in the frequency maintained as per Indian Electricity Grid Code (IEGC) between 49.90 cycles per second to 50.05 cycles per second of the standard frequency of 50 cycles per second or as amended from time to time.
16. The company shall ensure that the power factor of the power delivered to the TGTRANSCO/DISCOM is maintained at or above the minimum power factor as per Tariff Notification, or otherwise pay surcharge as per tariff notification in force or any other penal charges as to be decided by the Commission, from time to time.
17. Any change in rupturing capacity of switch-gear, settings of the relays, etc., shall be subject to approval of the TGTRANSCO/DISCOM as the case may be.
18. As the project's generator may carry fault currents that may occur on the TGTRANSCO/DISCOM's grid, the company shall provide adequate

ARTICLE 4
METERING AND PROTECTION

1. The company shall install main meter, and check meter of static type 0.2s class accuracy having both ABT & trivector features and online data transfer facility (V-SAT) at the interconnection Substation and the company shall also install standby meter of static type at the same point and of the same accuracy. The connected metering CTs & PTs shall be of 0.2s and 0.2 class of accuracy respectively as per the norms specified in the T.O.O. (CE-Construction-2) Ms.No.488, dated 17.03.2012, metering code by CEA/norms of TGERC and any changes made applicable from time to time. The main meter, check meter and standby meter shall each consist of a pair of export and import parameters with facility for recording meter readings using Meter Recording Instrument and configured with ToD software compatible to TGTRANSCO EBC data base. For the purpose of uniformity, the company shall follow metering specification as developed by DISCOM.
2. All the meters required to be installed pursuant to Article 4.1 above shall be jointly inspected and sealed on behalf of both parties, i.e., TGTRANSCO/DISCOM & company and shall not be interfered with, tested or checked except in the presence of representatives of both parties.
3. Though all the readings of main, check and standby meters have to be taken, the meter readings from the main meters will form the basis of billing. If any of the meters required to be installed pursuant to Article 4.1 above are found to be registering inaccurately, the affected meter will be replaced immediately.
4. Wherein the half yearly meter check indicates an error in one of the main meter/meter(s) beyond the limits of errors, for such meter(s), but no such error is indicated in the corresponding check meter/meters, billing for the month will be done on the basis of the reading on the check meter/meters and the main meter will be replaced immediately.
5. If during the half yearly test checks, both the main meter and the corresponding check meter are found to be beyond permissible limits of error, standby meters readings shall be taken to in consideration and both main and check meters shall be immediately replaced. If all the meters during yearly checking found to be faulty, and the correction applied to the consumption registered by the main meter to arrive at the correct delivered energy for billing purposes for the period of the one month up to the time of such test check, computation of delivered energy for the period thereafter till the next monthly meter reading shall be as per the replaced main meter. Alternatively, the energy will be computed on a mutually agreeable basis for that period of defect.
6. Corrections in delivered energy billing, whenever necessary, shall be applicable to the period between the previous monthly meter reading and the date and time of the test calibration in the current month when the error is observed and this correction shall be for the full value of the absolute error. For the purpose of determining the correction to be applied to any meter registering inaccurately, the meter shall be tested under conditions simulating 100, 50, 20 and 10 percent load at unity power factor and 0.5 power factor. Of these eight values, the error at the load and power factor nearest to the average monthly load served at the

- 3.6 The TGTRANSCO/DISCOM or its representative may verify the construction works or operation of the project being carried out by the company and if it is found that the construction works or operation of the project is not as per the prudent utility practices, it may seek clarifications from the company or require the works to be stopped or to comply with their instructions.
- 3.7 During the period prior to the commercial operation date, on the request of the company, the DISCOM will supply energy to the project for any purpose, on the terms and conditions and at the tariff rates that are applicable from time to time to the category of consumers of the DISCOM to which the company belongs, as stipulated in the respective Retail Supply Tariff Order of TGERC, provided separate metering arrangements as may be required under the terms and conditions of such tariff have been installed at the project.

Synchronization, Commissioning and Commercial Operation

- 3.8 The company shall give a notice in writing to the SLDC & DISCOM, at least (15) days before the date on which it intends to synchronize the project to the grid system.
- 3.9 The project may be synchronized by the company to the grid system when it complies with all the connectivity conditions specified in the Grid Code in force.
- 3.10 The synchronization equipment shall be installed by the company at its generation facility of the project at its own cost. The company shall synchronize its system with the grid system only after the approval of synchronization scheme under the supervision of the concerned authorities of the grid system.
- 3.11 The company shall immediately after synchronization/tripping of generator, inform the SLDC & designated Substation of the grid system to which the project is electrically connected in accordance with the Grid Code in force.
- 3.12 The company shall commission the project within timelines specified in this agreement from the effective date for projects connected and any delay in commissioning of the project shall be subject to the penalties as stipulated. After commissioning of the project, the company shall invariably register the project with SLDC.
- 3.13 The company may undertake the commissioning of the project in phases and provisions of clauses 3.8 to 3.10 and said clauses shall apply mutatis-mutandis for generating units commissioned in phases. However, prior to the completion of the synchronization of the entire project, the company shall obtain certification for full contracted capacity from the competent authority duly demonstrating the full commissioning of the contracted capacity.
- 3.14 The company shall ensure the connectivity standards as per technical norms of TGTRANSCO/DISCOM.

ARTICLE 3
INTERCONNECTION FACILITIES, SYNCHRONIZATION, COMMISSIONING AND
COMMERCIAL OPERATION

Interconnection Facilities

3.1 Upon receipt of a requisition from the company, TGTRANSCO/DISCOM shall prepare an estimate of cost for arranging the interconnection facilities for power evacuation at the voltage of delivery. The company has to bear the entire cost of the interconnection facilities as per the approved estimate made by TGTRANSCO/DISCOM and also take care of right of way issues. The TGTRANSCO/DISCOM shall arrange to evacuate, design, install, own, operate and maintain the interconnection facilities and perform all work, at the company's expense, necessary to economically, reliably and safely connect the TRANSCO/DISCOM's existing system to the project switchyard. The Company shall ensure metering facilities with Main, Check & Standby meters as envisaged in the connected Metering Regulations at the designated TGTRANSCO/DISCOM Substation, duly furnishing an Undertaking to the utility for periodical payment of bay maintenance charges.

Provided that the TGTRANSCO/DISCOM may allow the company to execute the interconnection facilities for power evacuation as per the approved estimate at its discretion duly collecting the supervision charges as per the procedures in vogue.

In case the project connects to a 33/11 KV or EHT interconnection substation where capacity is available subject to bay extension and if the bay extension is not feasible, then the company shall procure land and undertake bay extension at its own cost.

3.2 The company shall own, operate and maintain interconnection facilities from project to grid substation from time to time and shall bear the necessary expenditure. The maintenance work of the connected bay together with equipment at the grid substation has to be done in coordination with the TGTRANSCO & DISCOM personnel. The developer shall pay the bay maintenance expenses to TGTRANSCO/DISCOM as applicable. The Developer shall inform TGTRANSCO/DISCOM in advance, whether the maintenance work on the interconnection line will be carried by them or TGTRANSCO/TSDISCOM shall carry on payment basis.

3.3 DISCOM has been vested with the right to add any additional loads on the feeder without detrimental to the interests of the existing generating company.

3.4 Any modifications or procedures or changes in arranging interconnection facilities for power evacuations rest with Government of Telangana/DISCOM/TGTRANSCO.

3.5 The company shall allow entry to the site of the project free of all encumbrances at all times during the term of the agreement to the personnel of TGTRANSCO/DISCOM for inspection and verification of the works being carried out by the company at the site of the project. After the project is synchronized with grid and commercial operations are commenced, representatives of TGTRANSCO/DISCOM shall have access to the project site for verification of operations of the project, including the verification of the fuel being used.

- e) However, the minimum HT-I category billing shall be made applicable to the Company in a billing cycle that may be decided by Hon'ble TGERC from time to time, based on the voltage of the generator.

Explanation: The generating plants viz., power projects based on Waste to Energy during the plant shut down periods, maintenance works, plant tripping periods etc., shall draw the energy from TGTRANSCO/DISCOM only for the essentials loads during no generation periods.

ARTICLE 2

PURCHASE OF DELIVERED ENERGY AND TARIFF

- 2.1 All the delivered energy limited to the energy generated corresponding to the capacity export to grid and subject to threshold PLF (as to be decided/determined by the State Commission while deciding the Tariff and other Terms & Conditions applicable), at the interconnection point for sale to DISCOM will be paid at the tariff provided for in Article 2.2 from and after the date of commercial operation of the project. Title to delivered energy purchased shall pass from the company to the DISCOM at the interconnection point.
- 2.2 The company shall be paid the project specific tariff to be determined/decided by the State Commission, along with other terms & conditions, for the energy delivered limited to the energy generated corresponding to the capacity export to grid at the interconnection point for sale to DISCOM. After the State Commission issues consent to this PPA, Company shall file a separate Petition before the State Commission u/s 62 of the Act for deciding/determining the tariff applicable to this project along with other terms & conditions like payment for energy supplied beyond the threshold PLF, passing of Incentives, Grants etc received by the Generator to the DISCOM in case the Commission determines Tariff in 'Cost Plus approach', Reimbursement of Tipping Fee etc. No tariff will be paid for the energy delivered at the interconnection point beyond contracted capacity, i.e., the capacity agreed for export to Grid. The order of TGERC is enforceable in entirety and shall be considered for the purposes of processing of invoice(s).
- 2.3 The tariff, as to be decided/determined by the State Commission, payable by DISCOM shall be inclusive of all taxes, duties and levies or any other statutory liability, as applicable from time to time.
- 2.4 No transmission or wheeling charges or other charges or assessments charges shall be levied by the TGTRANSCO/DISCOM on purchased energy.
- a) Where in any billing month, the company is entitled to draw the energy from DISCOM/TGTRANSCO grid restricted to its auxiliary consumption during shut down periods, maintenance periods and plant tripping periods only. The company shall not draw any power from DISCOM/TGTRANSCO during plant running period. The contracted load of the plant shall be taken as the auxiliary consumption, that is, ____% of installed capacity. The energy supplied by the DISCOM to the company, shall be billed by the DISCOM and the company shall pay the DISCOM for such electricity supplies, at the DISCOM the then-effective TGERC applicable tariff to High Tension Category-I consumers as determined by TGERC from time to time.
 - b) For this purpose, the maximum demand recorded during such periods in a billing cycle shall be considered, in shut down period, the billing demand would be 80% of auxiliary consumption or recorded maximum demand whichever is more.
 - c) **Billing Energy:** 50 KVAH per KVA of billing demand or actual units recorded whichever is more.
 - d) For the purpose of billing TOD tariff, TOD compatible meters may be installed.

is affected or aggravated by the continued delivery of delivered energy from the project;

1.29 "**Tariff**" shall have the same meaning as ascribed in Clause 2.2 of this agreement;

1.30 "**Unit**" when used in relation to the generating equipment, means one set of turbine generator and auxiliary equipment, and facilities forming part of the Project and when used in relation to electrical energy, means Kilo Watt Hour (kWh);

1.31 "**Voltage of Delivery**" means 33 KV at 132/33 KV Takkallapally (Yacharam) Substation by erecting a dedicated 33 KV feeder from the plant to the 132/33 KV Takkallapally (Yacharam) Substation;

1.32 "**Tariff Year**" means each period of 12 months commencing from the COD of the project. The last tariff year of this agreement shall end on the date of expiry of this agreement;

1.33 "**Term of the Agreement**" shall have the same meaning as provided for in Article 8 of this agreement;

1.34 "**TGTRANSCO**" means Transmission Corporation of Telangana Limited, incorporated under the Companies Act, 1956;

1.35 "**Tipping Fee**" as provided under the Concession Agreement.

All other words and expressions used herein and not defined herein but defined in the Electricity Act, 2003, Electricity Duty Act 1939 and its subsequent amendments and Telangana Electricity Reform Act 1998, shall have the meanings respectively assigned to them in the said Acts and applicable State and Central regulations on grid code and others from time to time.

- 1.18 **"Interconnection Point"** means 33 KV level at 132/33 KV Takkallapally (Yacharam) Substation through a dedicated 33 KV feeder from the plant;
- 1.19 **"Interconnection Substation"** means 132/33 KV Takkallapally (Yacharam) SS;
- 1.20 **"Injection voltage or voltage of delivery"** means the voltage at which the company injects the power at the interconnection Substation;
- 1.21 **"Metering Date"** means 1st (First) day of each calendar month, at the interconnection point. The Metering for the project will be provided at the interconnection Substation in accordance with Article 4.1;
- 1.22 **"Plant Load Factor (PLF)"** means the ratio of total KWh (units) of power generated by plant in a tariff year and contracted capacity in KW multiplied with number of hours in the same tariff year;
- 1.23 **"Project"** means a power plant by utilizing Municipal Solid Waste (MSW), with a capacity of 14 MW, to be located at Yacharam (V&M), Rangareddy District, for the purpose of power generation, as detailed in Schedule-1 attached herewith, entrusted to the company for construction and operation as detailed in Agreement entered into with TGREDCO as shown in Schedule-3 attached herewith;
- 1.24 **"Prudent Utility Practices"** means those practices, methods, techniques and standards, that are generally accepted for use in electric utility industries taking into account conditions in India, and commonly used in prudent electric utility engineering and operations to design, engineer, construct, test, operate and maintain equipment lawfully, safely, efficiently and economically as applicable to power stations of the size, service and type of the project, and that generally conform to the manufacturers' operation and maintenance guidelines;
- 1.25 **"Municipal Solid waste (MSW) based power project"**: A project shall qualify to be termed as a Municipal Solid waste (MSW) based power project, if it is using the new plant and machinery based on the Rankine Cycle Technology (RCT) and using the MSW as fuel sources;
- Explanation 1: 'Municipal Solid Waste' means commercial and residential wastes generated in a municipal or notified areas either in solid or semi-solid form including treated biomedical waste but excluding industrial hazardous wastes.*
- Explanation 2: The new plant & machinery installed in MSW based waste to energy Project using the RCT should not have been used for generation of power in a project anywhere in India prior to its installation in a MSW based waste to energy power project in the State of Telangana.*
- 1.26 **"SERC"** means the State Electricity Regulatory Commission constituted under Section-82 of the Electricity Act, 2003 or its successors, and includes a Joint Commission constituted under sub-section (1) of Section 83 of the Electricity Act 2003;
- 1.27 **"SLDC"** means the State Load Dispatch Center as notified by the Telangana State Government under the provisions of the Electricity Act, 2003;
- 1.28 **"System Emergency"** means a condition affecting the TGTRANSCO/DISCOM's electrical system, which threatens the safe and reliable operation of such system or which is likely to result in the disruption of safe, adequate and continuous electric supply by the TGTRANSCO/DISCOM, or which endangers life or property, which condition

Explanation 2: The delivered energy in a billing month shall be limited to the energy calculated at 100% of designated export capacity. In case any excess energy delivered beyond 100% of designated export capacity in any billing period, no payment will be made for such excess energy.

Explanation 3: The delivered energy corresponding to designated export capacity shall be purchased by the DISCOM at a tariff stipulated in Article 2.2 of this agreement, subject to the Annual threshold PLF limits determined by TGERC in accordance with the year of operation.

- 1.11 "**Delivery Point**" means the point at which the power plant delivers energy to the TGTRANSCO/DISCOM designated Substation, i.e., at 33 KV level of 132/33 KV Takkallapally (Yacharam) SS;
- 1.11A "**Designated Substation**" means 132/33 KV Takkallapally (Yacharam) SS;
- 1.12 "**Due Date of Payment**" means the date on which the amount payable by the DISCOM to the company hereunder for delivered energy, if any, supplied during a billing month becomes due for payment, which date shall be forty five (45) days from the date of invoice. If the bill is received after 5 days of metering date in a particular month, the due date shall be reckoned from the date of receipt of invoice. In the case of any supplemental or other bill or claim, if any, the due date of payment shall be forty five (45) days from the date of the presentation of such bill or claim to the designated officer of the DISCOM/TGTRANSCO;
- 1.13 "**Effective Date**" means the date of execution of this Agreement on Rs.100 Non-Judicial Stamp Paper;
- 1.14 "**Financial Year**" means with respect to the initial financial year, the period beginning on the commercial operation date and ending at 12.00 midnight on the following 31st of March. Each successive financial year shall begin on 1st of April and end on the following 31st of March, except that the final financial year shall end on the date of expiry of the term or on termination of this agreement as per the provisions contained therein;
- 1.15 "**Grid Code**" means the Indian Electricity Grid Code issued by CERC and amended or modified from time to time and the TS Grid Code issued by TGERC as modified and amended from time to time. In case of any conflict between the Indian Electricity Grid Code and TG Grid Code, the provisions of TG Grid Code shall prevail;
- 1.16 "**Installed Capacity**" means 14 MW, that is, the rated capacity in Mega-Watts of the Alternator installed at the plant as contained in the name plate;
- 1.17 "**Interconnection Facilities**" means all the equipment and facilities, including, but not limited to, all metering facilities, 0.2s class CTs, 0.2 class PTs, switchgear, substation facilities, transmission lines and related infrastructure, to be installed by the Company by laying independent line to the designated substation of TGTRANSCO/DISCOM at the voltage specified in Article 1.20 at the company's expense from time to time throughout the term of this agreement, necessary to enable the DISCOM/TGTRANSCO to economically, reliably and safely receive delivered energy from the project in accordance with the terms of this agreement;

Explanation 1: The company based on renewable energy projects viz., Biomass, Bagasse, Mini Hydel and Municipal Solid Waste, RDF, Industrial Waste based Projects, etc., have to bear the entire expenditure of interconnection facilities for power evacuation as per the sanctioned estimate by the respective field officers;

ARTICLE 1 DEFINITIONS

Unless the context otherwise expressed in this agreement, the following terms shall have the meanings set forth herein below. Defined terms of singular number shall include the plural and vice-versa.

- 1.1 **"Act or Act, 2003"** means the Electricity Act, 2003 and includes any modifications, amendments and substitution from time to time;
- 1.2 **"Agreement"** means this power purchase agreement (PPA), including the articles, schedules, amendments, modifications and supplements made in writing by the parties from time to time;
- 1.3 **"Appropriate Commission"** means TGERC or CERC under the Electricity Act, 2003 as the case may be;
- 1.4 **"Billing Date"** means the Second (2nd) day after the Meter Reading Date;
- 1.5 **"Billing Month"** means the period commencing from 1st day of the calendar month and ending on the Last day of the same calendar month;
- 1.6 **"CERC"** means the Central Electricity Regulatory Commission formed under Section 76 of the Electricity Act, 2003;
- 1.7 **"Change in Law"** means any change or amendment to the provisions of electricity law in force, regulations, directions, notifications issued by the competent authorities and Government of India (GoI), Government of Telangana from time to time;
- 1.8 **"Commercial Operation Date (COD)"** means, with respect to each generating unit, the date on which such generating unit is declared by the company to be operational in the presence of TGTRANSCO/DISCOM authorized representatives, provided that the company shall not declare a generating unit to be operational until such generating unit has completed its performance acceptance test as per standards notified in coordination by DISCOM/TGTRANSCO/TGREDCO authorities;
Explanation: As provided by TGERC.
- 1.8A **"Concession Agreement"** means Agreement executed between the GHMC & the Company for supply of Municipal Solid Waste.
- 1.9 **"Contracted Capacity"** means designated capacity export to grid for sale to DISCOM at Interconnection Point as detailed in Schedule-1 to this Agreement for supply by the company to the DISCOM at the interconnection point from the project. Contracted capacity shall be in MW measured in Alternate Current (AC) terms and shall not change during the tenure of this Agreement.
- 1.10 **"Delivered Energy"** means with respect to any billing month, the Kilo Watt hours (KWH) of electrical energy generated by the project and delivered to the DISCOM at the interconnection point, as defined in clause 1.18 and as measured by the energy meters at the interconnection point during that billing month at the designated substation of TGTRANSCO or the DISCOM;

Explanation 1: For removal of doubts, the delivered energy, excludes all energy consumed in the project, by the main plant and equipment, lighting and other loads of the project from the energy generated and as recorded by the energy meter at interconnection point.

4. WHEREAS, the Company has offered to sell the power generated by its project to the DISCOM at a project specific tariff to be determined by the TGERC, upon filing of a suitable petition by the Company;

AND WHEREAS, the DISCOM has agreed to purchase such power from the Company at the project specific tariff as may be determined by the TGERC;

6. NOW, THIS AGREEMENT WITNESSETH AS FOLLOWS:

- (i) That the Company shall fulfill all conditions of the agreement entered into with TGREDCO and shall obtain necessary extensions as and when required, until the completion of the project. In the event the project allotted to the Company by TGREDCO is cancelled for any reason, this Agreement with the DISCOM shall stand automatically terminated.
- (ii) That the Company shall pass on to the DISCOM all incentives and concessions (including but not limited to tipping fee) received by it from either the Government of Telangana/the Government of India, in connection with the project.
- (iii) That the Company shall design, engineer, construct, and operate the project with due diligence and in accordance with all applicable Indian laws, rules, regulations, and directives, including the Grid Code issued by the CERC/TGERC.
- (iv) That this Agreement shall be enforceable subject to obtaining the consent of the TGERC, as per Section 21 of the Telangana Electricity Reform Act, 1998 (Act No. 30 of 1998).
- (v) This Agreement shall come into effect from the date of its execution on *Rs.100 Non-Judicial Stamp Paper* and is entered into with the prior consent of the Hon'ble TGERC, as conveyed vide Letter No. ____, dated ____.
- (vi) That the Company shall not be eligible to claim Renewable Energy Certificates (RECs) under any regulations issued by the CERC/TGERC, from time to time, for the energy generated from this project and supplied to the DISCOM under this Agreement. The DISCOM shall, however, be entitled to account for the energy received under this Agreement toward fulfillment of its Renewable Consumption Obligation (RCO)/Renewable Power Purchase Obligation (RPPO).

NOW, THEREFORE, in consideration of the foregoing premises and the mutual covenants herein contained, and for other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto, intending to be legally bound, hereby agree as follows:

**MODEL
POWER PURCHASE AGREEMENT**

This Power Purchase Agreement is made and executed on this the ____ day of ____, 2026:

BETWEEN

Southern Power Distribution Company Of Telangana Limited, a company incorporated by the Government of Telangana under the provisions of the Companies Act, 1956 and in accordance with the Telangana Electricity Reform Act, 1998 (Act No. 30 of 1998), having its registered office at 6-1-50, Mint Compound, Hyderabad – 500063, Telangana, India, represented herein by its Chief General Manager (IPC) (hereinafter referred to as the "DISCOM" or "TGSPDCL", as the case may be, which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) of the First Part.

AND

M/s. Sri Venkateswara Green Power Projects Limited, a company incorporated under the provisions of the Companies Act, 1956, having its registered office at Flat No. 303, My Home Sarovar Plaza, Secretariat Road, Saifabad, Hyderabad – 500063, Telangana, India, represented herein by its Authorised Signatory, **Sri K. Venkateswara Reddy**, S/o Sita Reddy, holding Aadhaar No. 7281 0793 5192, aged about 52 years, residing at H.No. 86-2-3/1, S.V. Reddy Street, Manthena Gardens, Rajahmundry (Urban), East Godavari District, Andhra Pradesh – 533101 (hereinafter referred to as the "**Developer**" or the "**Company**", as the case may be, which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) of the **Second Part**.

2. WHEREAS, the Company proposes to establish a Waste to Energy Power Project using Segregated Municipal Solid Waste (Processed Non-Hazardous Municipal Solid Waste), with an installed capacity of 14 MW, at Yacharam (V&M), Rangareddy District (hereinafter referred to as "*the Project*"), as detailed in **Schedule-1** attached to this Agreement;

3. WHEREAS, the State Nodal Agency, namely the Telangana State Renewable Energy Development Corporation Limited (TGREDCO), vide Ref: TGREDCO/MSW/SVGR/2025-26/266, dated 22.05.2026, issued an amendment order to *M/s. Sri Venkateswara Green Power Projects Limited* for the establishment of a Waste to Energy Power Project using Segregated Municipal Solid Waste (Processed Non-Hazardous Municipal Solid Waste) under an Integrated Municipal Solid Waste Management Facility, with a capacity of 14 MW, to be located at Yacharam (V&M), Rangareddy District, for the purpose of power generation;

AND WHEREAS, an Agreement dated 25.06.2019 was executed between TGREDCO and *M/s. Sri Venkateswara Green Power Projects Limited* for the implementation of the said sanction, copies of which are annexed to this Agreement as **Schedules 2 and 3** respectively;



తెలంగాణ తెలంగాణ TELANGANA

Sr. No. 10602 Date. 04.05.2019 Value: 100/-
 Purchaser : K. Venkateswara Reddy
 S/o : K. Sita Reddy R/o. Hyd
 For Whom : M/s. Sri Venkateswara Green Power Projects Ltd, Hyd

10602
 S 473662
B. MARY
 Licenced Stamp Vendor
 LIC:16-07-01/2013, Ren.No.16-07-06/19
 # 5-9-22/11/104, Hill Top Colony
 Adarshnagar, Hyderabad, District
 Ph.No. : 9885096145

AGREEMENT

1. This Agreement is made and entered on this 25th day of June month, 2019 at Hyderabad by and between, Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad, a fully owned State Government Company, registered under companies Act, 1956, having its registered office at "The Institution of Engineers" (India), Telangana State Centre, # D.No.6-2-910, "Visvesvaraya Bhavan", 2nd floor, Khairatabad, Hyderabad – 500004, Telangana, India represented by its Vice Chairman and Managing Director hereinafter referred to as the "TSREDCO" which expression shall unless it be repugnant to the context or meaning thereof, include its administrators, successors and assign of the First Party.

AND

2. M/s. Sri Venkateswara Green Power Projects Limited., 5-9-22, Flat No 303, 3rd floor, My Home Sarovar Plaza, Secretariat road, Saifabad, Hyderabad, Telangana State -500 063, represented by its Managing Director Mr. K. Venkateshwara Reddy, 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 Party.

TSREDCO
 DEVELOPMENT CORPORATION LTD.

For Sri Venkateswara Green Power Projects Limited



తెలంగాణ తెలంగాణ TELANGANA

S 473659

Sr. No. 105/10 Date. 04.05.2019 Value: 100/-

Purchaser : K. Venkateswara Reddy

S/o K. Sita Reddy R/o. Hyd

For Whom : M/s. Sri Venkateswara Green Power Projects Ltd, Hyd

B. MARY

Licensed Stamp Vendor

LIC:16-07-01/2013, Ren.No.16-07-06/19

5-9-22/11/104, Hill Top Colony
Adarshnagar, Hyderabad, District

Ph.No. : 9885096145

:: 02::

The TSREDCO and the Developer are severally referred to as the partly and collectively as Parties.

WHEREAS:

- TSREDCO is the Nodal Agency for New and Renewable Energy Projects in the State of Telangana for approval, facilitation and co-ordination for setting of the said projects including the Bio-mass Co-Gen. Power Project, Industrial Waste to Power Plant and Municipal Solid Waste to Power Plant as per the policies and guidelines of the Government of India in the Ministry of New & Renewable Energy and of the Government of Telangana.
- The Developer has submitted an application dated 30.04.2019 to TSREDCO for enhancement of the capacity from 12 MW to 14 MW RDF based power project at Yachram (V&M), Ranga Reddy District of Telangana State.
- TSREDCO, after due consideration and has accorded in-principle sanction to the Developer for enhance the capacity from 12 MW to 14 MW Municipal Solid Waste to Power Plant vide letter No: TSREDCO/MSW/ VGR/18-19/146 dated 08.05.2019 containing the terms and conditions of the permission as per the MNRE guidelines issued vide Letter No. 10/1/20113-U&I dated 12th Sept, 2013 and F.NO 20/222/2016-17/WTE dated 30.07.2018
- The terms and conditions of the existing agreement dated 15.10.2016 will applicable for enhancement capacity from 12 MW to 14 MW of RDF based power project at Yachram (V&M), Ranga Reddy District of Telangana State.

TELANGANA STATE
DEVELOPMENT
CORPORATION
FOR SRI VENKATESWARA GREEN POWER PROJECTS LIMITED

For Sri Venkateswara Green Power Projects Limited

E. C. Venkateswara

- E. As the Developer has complied with the aforesaid terms and conditions, TSREDCO issued the in principal sanction orders vide Letter dated:08.05.2019 and hence this Agreement.
- F. The developer shall execute and commission the power plant of 14 MW with in stipulated time as per the concession agreement entered with GHMC

NOW THEREFORE THIS AGREEMENT WITNESS AS FOLLOWS :-

1. The Developer shall establish the Integrated Municipal Solid Waste Management with a capacity of 14 MW RDF based Power Project at Yachram (V&M), Ranga Reddy District of Telangana State as per the policies and guidelines and 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.
2. The Developer shall obtain all statutory clearances required to establish and operate the plant. However, TSREDCO will only facilitate/ recommend for obtaining the necessary clearances and approvals from the concerned authorities for setting up of the plant whenever necessitated with written request of the developer.
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 Power Generation through utilization of Refused Derived Fuel (RDF) processed from Municipal Solid Waste (MSW) and for the consumption/ Utilization of generated power as per the rules, regulations and proceedings of the Telangana State Electricity Regulatory Commission (TSERC) and other related departments issued from time to time.
5. The TSREDCO cannot give guarantee for both the Power Purchase price and entering a Power Purchase Agreement (PPA) with TSDISCOMS/ TSTransco as these are dependent upon the Power supply position in the state at a given point of time and requirement of power by TS DISCOMS/ TSTransco. Regarding regulatory clearance for license or power purchase agreement with TS DISCOMS/ TS Transco is at the risk of the developer only. However, necessary cooperation will be extended whenever the necessity arises with written request of the developer.
6. The Developer shall complete the Financial Closure within a period of Six (6) months from the date of signing of the Agreement or with such extended period as granted by TSREDCO on the request of the Developer on reasonable grounds.
7. The Developer shall execute and commission the Power Project for generation of power within 24 (Twenty Four) months from the date of the Agreement and submit monthly progress reports on implementation of the plant on or before 10th day of the succeeding month.
8. The Developer shall execute and commission the Municipal Solid Waste processing facilities and a capacity of 14 MW Power Project within the stipulated time as per the agreement entered with GHMC, Hyderabad, concerned ULB's/ Municipalities and other related Departments.

For TELANGANA STATE RENEWABLE ENERGY
DEVELOPMENT CORPORATION LTD.

Vice Chairman & Managing Director

For Sri Venkateswara Green Power Projects Limited

Managing Director

9. The Developer has paid Rs.3,54,000/- (Three Lakhs and fifty four Thousand Only) as Sanction fee to TSREDCO @ Rs.1.5 Lakhs per MW Plus GST irrespective of power project cost, towards consultancy for enhancement capacity of 2 MW.
10. 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, TSREDCO 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 TSREDCO as may be revised or formulated from time to time.
11. The Security Deposit of Rs.2,00,000/- (Rupees Two Lakhs only) for enhancement capacity of 2 MW from 12MW to 14 MW paid by the Developer through Demand Draft/Performance Bank Guarantee (PBG) in favour of TSREDCO, payable at Hyderabad towards refundable security deposit. Which will be returned on successful implementation and commissioning of the plant as per the terms and conditions herein. The Security Deposit shall be subject to invocation partly or fully for any dues payable by the Developer to TSREDCO, 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 TSREDCO shall have the right to terminate the Agreement without any prior notice of whatever nature to the Developer.
12. TSREDCO shall have the right to terminate the 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 TSREDCO.
13. There shall be no financial assistance provided by the TSREDCO. However, the Developer shall be entitled for any grant or subsidy or any assistance in terms of the policies and guidelines of the Government of India and Government of Telangana
14. The setting up and operation of the plant is at 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
15. All disputes between the Parties shall, 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 TSREDCO whose decision shall be final and binding.
16. 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.

17. (a). 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.

(b) Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement of any obligation there under nor time or other indulgence grant 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.

18. 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.

19. 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.

20. This Agreement shall be executed in two counterparts on non-judicial papers of Rs. 100/- each at the cost and expenses of the Developer which when executed and delivered shall constitute an original of this Agreement.

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

Signed sealed and delivered

For TILANGANA STATE RENEWABLE ENERGY
DEVELOPMENT CORPORATION LTD.,

For Vice Chairman & Managing Director
TSREDCO

Signed sealed and delivered

For Sri Venkateswara Green Power Projects Limited

Managing Director
For and on behalf of the
Developer

Signature of the Authorized person
Designation and seal



Signature of the Authorized person
Designation and seal

Witnesses: 1)

(CH. SATYA PRASAD)
SV Green-Project Manager.

2) T. Govil

(T. SRINIVASA IYER)

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 : 913 Date: 13/- OCT -2016 ₹ 100/-

Purchaser: N. Sarika 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: 16-02-013 of 2014

2-1167/11/1, Tilaknagar, Hyd 44
Cell # 90102-68577.

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, Pishah 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. S. S. S. S. S.
Authorised Signatory

For Telangana New & Renewable Energy Development Corporation Limited

C. S. S.
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.

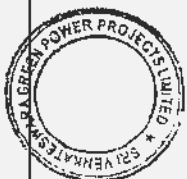
B. the Government of Andhra Pradesh had approved the said project of M/s Sri Venkateswara Green Power Projects in the G.O.Ms. No. 413, dated 11.6.2008, Municipal Administration and Urban Development, (J2) Dept., Govt. of A.P for establishing 12.00 MW capacity Power Project under Municipal Solid Waste(RDF) 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 15/10/2016 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

Emmanuel

Q.ew
Managing Director



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

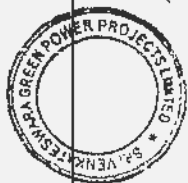
12. The setting up and operation of the plant is the public interest and time is the essence of this Agreement. The Developer shall submit the copies of the Agreements entered / to be entered from time to time with other departments / authorities with reference to this project

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

E. L. M. Reddy
Authorized Signatory

For Telangana New & Renewable Energy
Development Corporation Limited

[Signature]
Authorized Signatory

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.

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

Signed sealed and delivered
For and on behalf of the
INBEX
of Chicago a New & Renewable Energy
Development Corporation Limited
Vice Chairman & Managing Director
Signature of the Authorized person



Designation and seal

1.

2

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

Sub: Standardization of Metering CT ratios and secondary burdens of metering CTs and PTs — to adopt 0.2S class metering CTs instead of 0.2 class as being followed now -Orders Issued.

TOO (CE-Construction-2) Ms. No. 488

Date: 17/03/2012

1. During KPI meeting held on 29-11-2011 it was instructed to ensure the following while approving the metering CT's and PT's for EHT services.

"The available CT ratio should be as nearer to the full load current as possible corresponding to Contracted MD. The burden should be specified such that the burden connected on secondary side is at least 25% of the rated burden. Incorporating protection cores is to be avoided in the CT's meant for metering."

2. The above subject was further discussed with the manufacturers and after examining the issue, APTRANSCO is hereby ordered to adopt the following to have high accuracy metering system for the Bulk loads and Generators.
3. The following are to be adopted for all future Bulk load and generator metering and also for the ongoing cases where the drawing approvals are not accorded so far.

- a) To adopt 0.2S class CTs for metering.
- b) To adopt rated secondary burden of 5 VA and 10 VA for metering CTs and PTs respectively.
- c) To standardize the following CT ratios for the CMD range indicated below:

132kV EHT services:

Sl. No	Contractual Maximum Demand	132kV CT ratio in Amps
a)	up to 30 MVA	150/1, 0.2 S class
b)	Above 30 MVA and up to 55 MVA	300/1, 0.2 S class

220kV EHT services:

Sl. No	Contractual Maximum Demand	220kV CT ratio
a)	up to 65 MVA	200/1, 0.2 S class
b)	Above 65 MVA and up to 135MVA	400/1, 0.2 S class
c)	Above 135 MVA and up to 200MVA	600/1, 0.2 S class

In case of generators /CPPs and co-generation plants the maximum capacity of generation may be taken in to consideration instead of their CMDs, for deciding metering CT ratios.

In case of generators /CPPs and co-generation plants the metering shall be provided at APTRANSCO Sub-station / switching station end. In case of DC lines where single

metering provided with summation CTs, the CT ratio for each feeder will be chosen to suit the CMD.

- d) To specify ISF rating of less than 10 for metering CTs.
- e) To consider Type tests conducted on 0.2 class CTs even for 0.2 S class CTs, as metering CTs class of accuracy is being ascertained at 3rd party NABL accredited laboratories.

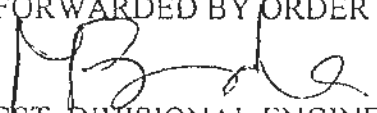
4. These orders are issued as per the approval of the Chairman and Managing Director vide No. 747 dated 07/03/2012.

5. These orders are also available on APTRANSCO website and can be accessed at the address <http://www.aptransco.gov.in>.

BY ORDER AND IN THE NAME
OF
TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

B. UMAKAR RAO
DIRECTOR/ PROJECTS

// FORWARDED BY ORDER //


ASST. DIVISIONAL ENGINEER

To:

The Executive Director/Planning, RAC & Reforms, Vidyut Soudha/Hyderabad
The Chief Engineer/Construction-I/Vidyut Soudha/Hyderabad.
The Chief Engineer/Construction-II/Vidyut Soudha/Hyderabad.
The Chief Engineer/400kV construction/Vidyut Soudha/Hyderabad.
The Chief Engineer/Power Systems/Vidyut Soudha/Hyderabad.
The Chief Engineer/LI/Vidyut Soudha/Hyderabad.
The Chief Engineer/Civil/Vidyut Soudha/Hyderabad.
The Chief Engineer/Transmission/Vidyut Soudha/Hyderabad.
Personal Secretary to the Chairman & Managing Director.
Personal Secretary to the Joint Managing Director/(Commercial, IPC & IT).
DE (T) to the Joint Managing Director/Vigilance & Security.
ADE(T) to the Joint Managing Director/(HRD & Distribution).
Personal Secretary to the Director/Finance & Revenue.
DE (T) to Director/Transmission.
Personal Secretary to Director/Grid Operation.
Personal Secretary to Director/Projects.
All the Chief Engineer/Zones
Central Record Section and stock file
T.O.O Section.



తెలంగాణ తెలంగాణ TELANGANA

Notary BW 557419

Tran Id: 260519172032171335
Date: 19 MAY 2026, 05:23 PM
Purchased By:
K. VENKATESWARA REDDY
S/o K. SITA REDDY
R/o HYD

For Whom

SRI VENKATESWARA GREEN POWER PROJECTS LIMITED

B MARY
LICENSED STAMP VENDOR
Lic. No. 16-07-001/2013
Ren.No. 16-07-005/2025
5-9-22/11/104hilltop Colony
Adarshnagar Hyderabad.
Ph 9885160969

Undertaking Declaration

Mr. KOVVURI VENKATESWAR REDDY S/o Shri KOVVURI SITA REDDY, Working as Managing Director, in M/s. Sri Venkateswara Green Power Project Limited, having its registered office at P.No.252-A, Lotus Pond Road, MLA Colony, Road No. 12, Banjara Hills, Hyderabad - 500034. Telangana, India., do solemnly affirm and say as follow:

I am the Managing Director of Sri Venkateswara Green Power Projects Limited, the representative in the above company and am duly authorised to file Undertaking Declaration.

The Company shall furnish an undertaking (which forms part of this Agreement) that the tariff applicable shall be as determined by TGERC, along with other terms & conditions like payment for energy supplied beyond the threshold PLF, passing of Incentives, Grants etc received by the Generator to the DISCOM in case the Commission determines Tariff in 'Cost Plus approach', Reimbursement of Tipping Fee etc, upon the Petition to be filed by the Company u/s 62 of the Act, subsequent to the accord of consent by the State ERC for the power purchase under this PPA executed by the Company & DISCOM.

For Sri Venkateswara Green Power Projects Limited

Date: 21-09-2026
Place: Hyderabad



(Kovvuri Venkateswara Reddy)
Managing Director

SCHEDULE-6

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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ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

18396 9/11/2010 100

ITC No. 1 K.V.S.N. Reddy

o. W/o D/O E. Vee Reddy

in Whom SRI VENKATESWARA Green Power Projects Ltd

V. VERESHAM AM 207344

L No. 64/95 R 16/2010

STAMP V JOR

C. G. COLONY, J. N. ROAD, RAJAHMUNDRY,

SECUNDER AB - 500018

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 "Concessing 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 7th day of July 2000, having its registered office at 83/3/1, 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/72, Hardik Kallasi, 301, SBI Colony, Bagh Amberpet, Hyderabad 500 013

represented by its Authorized person

Herein referred to a "Concessionaire" which expression unless repugnant to the context includes its Directors, Representatives, Successors and assignees 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.

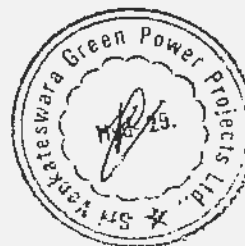
The parties hereto are required to enter into this Concession Agreement under these presents to record the terms, conditions and covenants of concessions.

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.

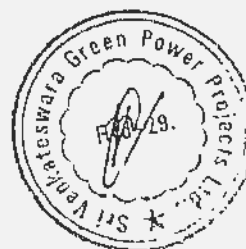
xxix) **"Implementation Period"** shall mean the period from the effective date to COD.

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.
- xliv) **"Scheduled Project Completion Date"** shall mean the completion of the project facilities which shall be within 18 months from the date of financial closure.
- xlvi) **"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.
- xliv) "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.
- xlvi) "Tipping Fee"** shall mean the amounts payable by the Concessionaire for land filling of rejects as decided by the state level official committee.
- xlvi) "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;

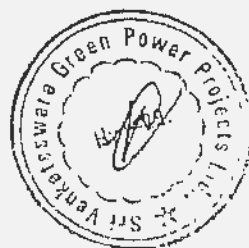
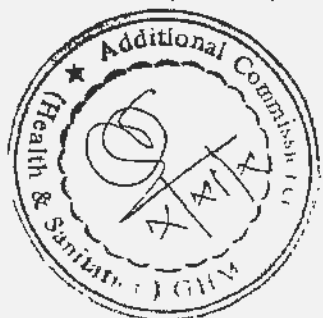
ARTICLE 2

CONCESSION

2.1 The Concession

Subject to and in accordance with the terms and conditions set forth in this agreement, the Concessions 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

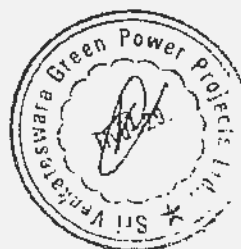
4.1.1. CA shall immediately and in any case not later than 15 days from the appointed date, nominate an officer as an officer to carryout roles and responsibilities of Project Engineer and communicate the details of the same to the Concessionaire and from time to time in case of change of incumbent.

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.
- e) 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 constriction 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 fulfil 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 slit 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

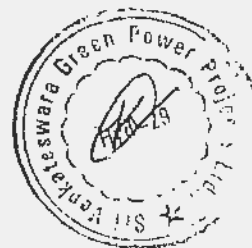
For any such intention of termination shall be in writing and through a notice to other party. The other party shall reply in writing within one month of receiving notice. However, if agreed by both the parties the matter can be amicably settled and resumption of services can be done.

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



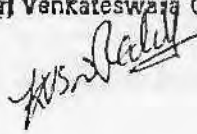
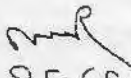
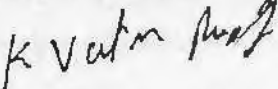
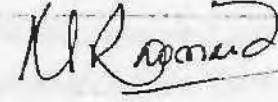
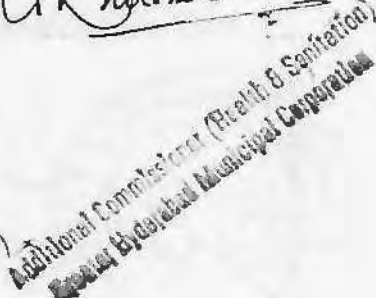
- c. fire caused by reasons not attributable to the Concessionaire or any of the employees, contractors or agents appointed by the Concessionaire for purposes of the project;
- d. acts of terrorism;
- e. strikes, labour disruptions or any other industrial disturbances not arising on account of the acts 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 with in 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 there from.



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 For Sri Venkateswara Green Power Projects Ltd
 (Signature)	 (Signature)
(Name) S. ALEEM ROSHAN	(Name) K.V. SATYANARAYANAREDDY
(Designation) ADDITIONAL COMMISSIONER	(Designation) DIRECTOR
In the presence of:	In the presence of:
1)  10/11/2010 SE (Sd/-)	1) 
2)  EE / Sd/-	2) 
 (Time copy)	

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 తెలంగాణ TELANGANA

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

BR 111626
Karpur
IKKURUM KALPANA
LICENSED STAMP VENDOR
Lic. No: 15-10-010/2019
Ren. No: 15-10-072/2024
PLOT NO 1188 SRI SWAMY
APPAPPA CO-OP HOUSING
SOCIETY MADHAPUR
SERILINGAMPALLY MANDAL
RANGAREDDY DIST
Ph: 9490666722

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)

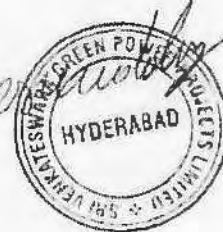
AND

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
KANGA REDDY DIST. TN
26 APR 2015
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


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MSW as per MSW (Management & Handling) Rules 2000 for which the Government issued G.O.Ms. 859 MA&UD (J) 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 (J) 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 SVGPPPL's Yacharam Project site, where SVGPPPL 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.


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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

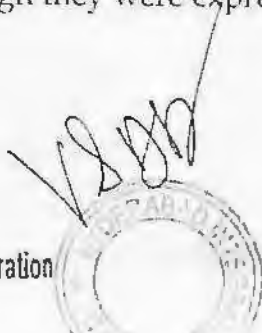


- **"Project":** shall mean the processing, Waste-to-Energy and other infrastructure as may be required to properly manage the 700 TPD of MSW with all applicable environmental rules and norms, to be established by SVGPPL at the designated location at Yacharam.
- **"Project Site":** shall mean the location 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;


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 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;

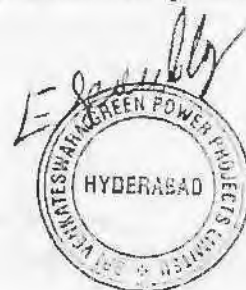
ARTICLE 2:- CONDITIONS PRECEDENT

- 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.


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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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Greater Hyderabad Municipal Corporation



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.


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Greater Hyderabad Municipal Corporation



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 HIMSW 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.

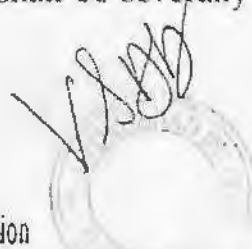
iv. **Notices**

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


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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.


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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:

V S Venkatesan

Name of the Authorized Person: (Varamandei S Venkatesan)

Date of Board Resolution:

Common Seal of the HIMS W:

SVGPPL(Sri Venkateswara Green Power Projects Limited)

Signature:

E. Chinnappa

Name of the Authorized Person:



Date of Board Resolution:

Common Seal of the SVGPPIL:

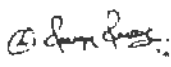
Witness:

Signature: 

Name of the Witness: R. SREENIVASH REDDY

Address of the Witness Executive Engineer, SWM, GHMC

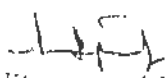
Witness:

Signature: 

Name of the Witness: CH. PANDU RANGA REDDY

Address of the Witness HIMSO LTD, Roomky 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.

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Dated: 12th June, 2024

NOTIFICATION

No.: RA-14026(11)/1/2023-CERC: In exercise of powers conferred under Section 61 read with sub-clause (s) of Clause (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations:

1. Short title and commencement

- 1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2024.
- 2) These regulations shall come into force on 01.07.2024, and, unless reviewed earlier or extended by the Commission, shall remain in force up to 31.03.2027.

2. Definitions and Interpretation

- 1) In these regulations, unless the context otherwise requires,
 - a) 'Act' means the Electricity Act, 2003 (36 of 2003);
 - b) 'Auxiliary energy consumption' or 'AUX' in relation to a period in the case of a generating station means the quantum of energy consumed by auxiliary equipment of the generating station and transformer losses within the generating station expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station;

- c) **'Biomass'** means wastes produced during agricultural and forestry operations (for example, straws and stalks) or produced as a by-product of processing operations of agricultural produce (e.g., husks, shells, de-oiled cakes); wood produced in dedicated energy plantations or recovered from wild bushes or weeds; and the wood waste produced in some industrial operations; including such other wastes as may be recognised by the Central Government, as being part of biomass;
- d) **'Biomass gasification'** means the process of incomplete combustion of biomass resulting in the production of combustible gases consisting of a mixture of carbon monoxide (CO), hydrogen (H₂) and traces of methane (CH₄);
- e) **'Biogas'** means a gas produced when organic matter like crop residues, sewage, and manure breaks down (ferments) in an oxygen-free environment;
- f) **'Capital cost'** means the capital cost of a project as referred to in Regulations 12, 24, 27, 31, 39, 46, 50, 56, 62, 67, and 71;
- g) **'Commission'** means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
- h) **'Conduct of Business Regulations'** means the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023, or any subsequent re-enactment thereof;
- i) **'Control Period'** means the period during which the norms for determination of tariff specified in these regulations shall remain valid;
- j) **'Floating solar project'** or **'FPV'** means a solar PV power project where the arrays of photovoltaic panels on the structure of the project float on top of a body of water, such as an artificial basin or lake, with the help of a floater, anchoring, and mooring system;
- k) **'Grid Code'** means the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, as amended from time to time or any subsequent re-enactment thereof;
- l) **'Gross calorific value'** or **'GCV'** in relation to a fuel used in a generating station means the heat produced in kCal by the complete combustion of

one kilogram of solid fuel, or one litre of liquid fuel or one standard cubic metre of gaseous fuel, as the case may be;

- m) **‘Gross station heat rate’** or **‘Gross SHR’** means the heat energy input in kCal required to generate one kWh of electrical energy at the generator terminals of a generating station;
- n) **‘Installed capacity’** or **‘IC’** means the summation of the nameplate capacities of all the units of the generating station or the capacity of the generating station (reckoned at the generator terminals). In the case of Solar PV power projects and Floating solar projects, installed capacity shall be the sum of nameplate capacities (Nominal AC power) of the inverters of the project;
- o) **‘Inter-connection point’** shall mean the interface point of renewable energy generating facility with the transmission system or distribution system, where the energy is injected, as the case may be, and include:
 - i. in relation to wind power projects, solar PV power projects, renewable hybrid energy projects and renewable energy with storage Projects, line isolator on outgoing feeder on HV side of the pooling sub-station; and
 - ii. in relation to small hydro projects, biomass gasifier based power projects, non-fossil fuel based co-generation projects and solar thermal power projects, line isolator on the outgoing feeder on the HV side of the generator transformer.
- p) **‘MNRE’** means the Ministry of New and Renewable Energy of the Government of India;
- q) **‘Municipal solid waste’** or **‘MSW’** means and includes commercial and residential wastes generated in a municipal or notified area in either solid or semi-solid form and excludes industrial hazardous wastes but includes treated bio-medical wastes;
- r) **‘Non-fossil fuel based co-generation project’** means a generating station that uses the process in which more than one form of energy (such as steam and electricity) is produced in a sequential manner by use of biomass;
- s) **‘Operation and Maintenance expenses’** or **‘O&M expenses’** means the expenditure incurred on operation and maintenance of the project, or part

- thereof, and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads;
- t) **'Project'** means a generating station or an evacuation system up to an inter-connection point, as the case may be, and in the case of a small hydro project, includes all components of the generating facility such as a dam, intake water conductor system, power generating station and generating units of the scheme, as apportioned to power generation;
 - u) **'Pumped storage hydro project'** means a hydropower project which generates power through water stored as potential energy, pumped from a lower elevation reservoir to a higher elevation reservoir;
 - v) **'Refuse derived fuel' or 'RDF'** means a segregated combustible fraction of solid waste other than chlorinated plastics in the form of pellets or fluff produced by drying, de-stoning, shredding, dehydrating, and compacting combustible components of solid waste that can be used as fuel;
 - w) **'Renewable energy' or 'RE'** means the electricity generated from renewable energy sources;
 - x) **'Renewable energy project'** means a generating station that produces electricity from renewable energy sources;
 - y) **'Renewable energy source'** means and includes sources of renewable energy such as hydro, wind, and solar, including its integration with combined cycle, biomass, biofuel cogeneration, urban or municipal waste, and such other sources as recognised or approved by the Central Government ;
 - z) **'Renewable energy with storage project'** means a combination of renewable energy projects with storage or a combination of renewable hybrid energy projects with storage at the same inter-connection point;
 - aa) **'Renewable hybrid energy project'** means a renewable energy project that produces electricity from a combination of renewable energy sources connected at the same inter-connection point;
 - bb) **'Small hydro project'** means a hydropower project with an installed capacity up to and including 25 MW or, as defined by the Government of India, from time to time at a single location;

- cc) **‘Solar PV power project’** means a project that uses sunlight for direct conversion into electricity through photovoltaic technology and is based on technologies such as crystalline silicon, thin film, or any other technology as approved by MNRE;
- dd) **‘Solar thermal power project’** means a project that uses sunlight for direct conversion into electricity through concentrated solar power technology and is based on line focus or point focus principle;
- ee) **‘State Nodal Agency’** means the agency in a State as may be designated by the Ministry of New and Renewable Energy to promote efficient use of renewable energy in that State;
- ff) **‘Storage’** means an energy storage system utilizing methods and technologies like solid state batteries, flow batteries, pumped storage, compressed air, fuel cells, hydrogen storage or any other technology to store various forms of energy and to deliver the stored energy in the form of electricity;
- gg) **‘Tariff period’** for renewable energy projects will be the same as their Useful Life, and the tariff period shall be considered from the date of commercial operation of such power projects.
- hh) **‘Useful Life’** in relation to the project, including a dedicated evacuation system, from the date of commercial operation of such project, shall mean the following: -

i	Wind power project	25 years
ii	Biomass power project with Rankine cycle technology	25 years
iii	Non-fossil fuel based co-generation project	25 years
iv	Small hydro Project	40 years
v	<u>Municipal solid waste based power project/Refuse derived fuel based power project</u>	<u>20 years</u>
vi	Solar PV power project/ floating solar project/Solar thermal power project	25 years
vii	Biomass gasifier based power project	25 years

viii	Biogas based power project	25 years
ix	Renewable hybrid energy project	Minimum of the Useful Life of different RE technologies combined for Renewable Hybrid Energy Project for Composite Tariff as specified under Regulation 70.
x	Renewable energy with storage project	Same as the Useful Life of the project, assuming that there is no storage

ii) **'Year'** means a financial year.

- 2) Save as aforesaid and unless repugnant to the context or if the subject matter otherwise requires, words and expressions used in these regulations and not defined, but defined in the Act, or the Grid Code or the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, as amended from time to time shall have the meanings assigned to them respectively in the Act, or the Grid Code or the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, as amended from time to time.

3. Scope and extent of application

These regulations shall apply to cases where the tariff, for a grid connected generating station or a unit thereof commissioned during the Control Period and based on renewable energy sources is to be determined by the Commission under Section 62 read with Section 79 of the Act:

Provided that in cases of wind power projects, small hydro projects, biomass power projects with Rankine cycle technology, non-fossil fuel based co-generation projects, solar PV power projects, floating solar projects, solar thermal power projects, renewable hybrid energy projects, renewable energy with storage projects, biomass gasifier based power projects, biogas based power projects,

municipal solid waste based power projects, and refuse derived fuel based municipal solid waste power projects, these regulations shall apply subject to the fulfilment of eligibility criteria specified in Regulation 4 of these Regulations.

4. Eligibility Criteria

- a) Wind power project – The project that uses new wind turbine generators and is located at sites, on-shore or off-shore, approved by the State Nodal Agency or Appropriate Government.
- b) Small hydro project – The project that uses new plant and machinery and is located at sites approved by the State Nodal Agency or Appropriate Government.
- c) Biomass power project with Rankine cycle technology – The project that uses new plant and machinery, is based on Rankine cycle technology and does not use any fossil fuel.
- d) Non-fossil fuel based co-generation project – The project that uses new plant and machinery and is based on the topping cycle mode of co-generation.

Topping cycle mode of co-generation – Any facility that uses non-fossil fuel input for power generation and also utilizes the thermal energy generated for useful heat applications in other industrial activities simultaneously:

Provided that for the co-generation facility to qualify under topping cycle mode, the sum of useful power output and one-half the useful thermal output be greater than 45% of the facility's energy consumption during crushing season. Explanation- For the purposes of this clause,

- (a) **'Useful power output'** is the gross electrical output from the generator. There will be an auxiliary consumption in the cogeneration plant itself (e.g. the boiler feed pump and the FD/ID fans). In order to compute the net power output, it would be necessary to subtract the auxiliary consumption from the gross output. For simplicity of calculation, the

useful power output is defined as the gross electricity (kWh) output from the generator.

(b) **'Useful Thermal Output'** is the useful heat (steam) that is provided to the process by the cogeneration facility.

(c) **'Energy Consumption'** of the facility is the useful energy input that is supplied by the fuel (normally bagasse or other such biomass).

(d) **'Topping Cycle'** means a co-generation process in which thermal energy produces electricity, followed by useful heat application.

e) Solar PV power project, floating solar project and solar thermal power project – The project is based on technologies approved by MNRE.

Provided that floating solar projects installed with existing renewable energy projects other than ground mounted Solar PV projects shall be treated as renewable hybrid energy projects.

f) Renewable hybrid energy project – The rated capacity of generation from one renewable energy source is at least 33% of the total installed capacity of the renewable hybrid energy project, which operates at the same point of interconnection: Provided that energy is injected into the grid at the same interconnection point and metering is done at such a common interconnection point accordingly.

g) Biomass gasifier based power project – The project uses a new plant and machinery and has a grid connected system that uses a 100% producer gas engine, coupled with gasifier technologies approved by MNRE.

h) Biogas based power project – The project uses new plant and machinery and has a grid connected system that uses a 100% biogas fired engine, coupled with biogas technology for co-digesting agriculture residues, manure and other bio-waste as approved by MNRE.

i) Municipal solid waste based power projects – The project uses new plant and machinery based on Rankine cycle technology and uses municipal solid waste as fuel.

j) Refuse derived fuel based municipal solid waste power projects – The project uses new plant and machinery based on Rankine cycle technology and uses refuse derived fuel as fuel.

- k) Renewable energy with storage project – The renewable energy project including a renewable hybrid energy project that uses, partly or fully, renewable energy generated from such project to store energy in a storage facility, which is connected at the same point of interconnection as the renewable energy project.

Chapter 1: General Principles

5. Control Period

The Control Period under these Regulations shall be from 01.07.2024 to 31.03.2027:

Provided that the tariff determined as per these regulations for the RE projects commissioned during the Control Period shall remain valid for the tariff period;

Provided further that the tariff norms specified in these regulations shall continue to remain applicable subject to such conditions as may be stipulated by the Commission, until notification of the revised norms through subsequent re-enactment of these regulations.

6. Generic Tariff

The generic tariff shall be determined by the Commission on an annual basis in accordance with these Regulations for the following types of renewable energy projects:

- a) Small hydro project;
- b) Biomass power project with Rankine cycle technology;
- c) Non-fossil fuel based co-generation project;
- d) Biomass gasifier based power project; and
- e) Biogas based power project
- f) Refuse Derived Fuel based Municipal Solid Waste power projects;

Provided that the generic tariff determined for the year in which an RE project is commissioned shall be applicable for such RE Project of the same type and shall remain valid for the tariff period.

7. Project Specific tariff

- a) Project specific tariff, on a case to case basis, shall be determined by the Commission for the following types of renewable energy projects:
- i. Solar PV power projects, floating solar projects and solar thermal power projects;
 - ii. Wind power projects (both on-shore and off-shore);
 - iii. Biomass Projects, Biomass gasifier based power projects, and biogas based power projects – if a project developer opts for project specific tariff;
 - iv. Municipal solid waste based power projects and refuse derived fuel based municipal solid waste power projects – if a project developer opts for project specific tariff;
 - v. Renewable hybrid energy projects;
 - vi. Renewable energy with storage projects; and
 - vii. Any other project based on new renewable energy sources or technologies approved by the Central Government.
- b) Financial and operational norms specified in these regulations, except for capital cost, shall be the ceiling norms while determining the project specific tariff.

8. Petition and proceedings for determination of tariff

- (1) In case of renewable energy projects for which a generic tariff has to be determined as per these regulations, the Commission shall determine such generic tariff prior to the commencement of the year for each year of the Control Period:

Provided that for the first year of the Control Period, i.e., from 01.07.2024 to 31.03.2025, the generic tariff shall be determined upon issuance of these regulations.

- (2) A petition for determination of project specific tariff shall be accompanied by such fee as may be specified in the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time or any subsequent re-enactment thereof, and shall be accompanied by:

- a) Information in forms 1.1, 1.2, 2.1, 2.2 and 2.3, as the case may be, as appended to these regulations;
 - b) Detailed project report outlining technical and operational details, site specific aspects, basis for capital cost, detailed break-up of capital cost and financing plan;
 - c) A statement of all applicable terms and conditions and anticipated expenditure for the period for which tariff is to be determined;
 - d) A statement containing details of the calculation of any grant, subsidy, or incentive received, due or assumed to be due, from the Central Government or State Government or both. This statement shall also include the proposed tariff calculated without such subsidy or incentive;
 - e) Consent from the beneficiary for procurement of power from renewable energy project, unless such requirement has been exempted by the Central or State Government; and
 - f) Following documents in case of a petition for determination of project specific tariff by renewable energy projects, where tariff from such renewable energy sources is generally determined through a competitive bidding process in accordance with provisions of Section 63 of the Act:
 - i. Rationale for opting project specific tariff instead of competitive bidding; and
 - ii. Competitiveness of the proposed tariff vis-à-vis tariff discovered through competitive bidding/ tariff prevalent in the market.
 - g) Any other information directed by the Commission.
- (3) The proceedings for determination of tariff shall be in accordance with the provisions of the Conduct of Business Regulations.

9. Tariff Structure

The tariff for renewable energy sources shall consist of the following components:

- (a) Return on equity;
- (b) Interest on loan;
- (c) Depreciation;
- (d) Interest on working capital; and
- (e) Operation and Maintenance expenses;

Provided that for renewable energy projects having fuel cost component, like biomass power projects with rankine cycle technology, biomass gasifier based power projects, biogas based power projects and non-fossil fuel based co-generation projects, single part tariff with two components, fixed cost component and fuel cost component, shall be determined.

10. Tariff Design

- (1) The generic tariff shall be determined, on a levelized basis, considering the year of commissioning of the project, for the tariff period of the project:

Provided that for renewable energy projects having a single part tariff with two components, the fixed cost component shall be determined on a levelized basis considering the year of commissioning of the project while the fuel cost component shall be determined on a year of operation basis in the Tariff Order to be issued by the Commission.

- (2) For the purpose of levelized tariff computation, a discount factor equivalent to the post-tax weighted average cost of capital shall be considered.

- (3) The above principles shall also apply for project specific tariffs.

11. Treatment for Over-Generation

In case a renewable energy project, in a given year, generates energy in excess of the capacity utilization factor or plant load factor, as the case may be specified under these Regulations, the renewable energy project may sell such excess energy in the market under bilateral or collective transactions, provided that the first right of refusal for such excess energy shall vest with the concerned beneficiary. In case the concerned beneficiary purchases the excess energy, the tariff for such excess energy shall be equal to the tariff applicable for that year.

Chapter 2: Financial Principles

12. Capital Cost

Norms for capital cost, as specified in relevant chapters of these regulations, shall be inclusive of land cost, pre-development expenses, all capital work including plant & machinery, civil work, erection, commissioning, financing cost, interest during construction and evacuation infrastructure up to an inter-connection point.

13. Debt Equity Ratio

(1) For determination of generic tariff and project specific tariff, the debt-equity ratio shall be considered as 70:30:

Provided that:

- i. The project specific tariffs, where the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as a normative loan;
- ii. The project specific tariffs where equity actually deployed is less than 30% of the capital cost, the actual equity shall be considered for determination of tariff;
- iii. The equity invested in foreign currency shall be designated in Indian rupees on the date of each investment;
- iv. The debt-equity ratio shall be considered after deducting the amount of grant or capital subsidy received for the project for arriving at the amount of debt and equity; and
- v. The premium, if any, raised by the generating company while issuing share capital and investment of internal resources created out of its free reserve for the funding of the project shall be reckoned as paid-up capital for the purpose of computing return on equity only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the renewable energy project.

(2) The project developer shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding the infusion of funds

from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the renewable energy project.

14. Loan Tenure and Interest on Loan

(1) Loan Tenure

For determination of generic tariff and project specific tariff, loan tenure of 15 years shall be considered.

(2) Interest on Loan

- (a) The loans arrived at in the manner indicated in Regulation 13 shall be considered as gross normative loans for the calculation of interest on loans. For project specific tariff, the normative loan outstanding as on the 1st of April of every year shall be worked out by deducting the cumulative repayment up to the 31st of March of the previous year from the gross normative loan.
- (b) For the purpose of computation of tariff, the normative interest rate of two hundred (200) basis points above the average State Bank of India Marginal Cost of Funds based Lending Rate (MCLR) (one-year tenor) prevalent during the last available six months shall be considered.
- (c) Notwithstanding any moratorium period availed by the project developer, the repayment of the loan shall be considered from the first year of commercial operation of the project and shall be equal to the annual depreciation allowed.

15. Depreciation

- (1) The value base for the purpose of depreciation shall be the capital cost of the project admitted by the Commission. The salvage value of the project shall be considered as 10%, and depreciation shall be allowed up to a maximum of 90% of the capital cost of the project:

Provided that no depreciation shall be allowed to the extent of grant or capital subsidy received for the project.

(2) Depreciation rate of 4.67% per annum shall be considered for the first 15 years and the remaining depreciation shall be evenly spread during the remaining Useful Life of the project.

(3) Depreciation shall be computed from the first year of commercial operation:

Provided that, for determination of project specific tariff, in case of commercial operation of the project for part of the year, depreciation shall be computed on a pro rata basis.

16. Return on Equity

(1) The value base for equity shall be as determined under Regulation 13.

(2) The normative Return on Equity for renewable energy projects other than small hydro projects shall be 14%, and that for the small hydro projects shall be 15%. The normative Return on Equity shall be grossed up by the latest available notified Minimum Alternate Tax (MAT) rate for the first 20 years of the Tariff Period and by the latest available notified Corporate Tax rate for the remaining Tariff Period.

17. Interest on Working Capital

(1) The Working Capital requirement in respect of wind power projects, small hydro projects, solar PV power projects, floating solar projects, solar thermal power projects, municipal solid waste based power projects and refuse derived fuel based power projects and renewable energy with storage projects shall be computed in accordance with the following:

- a) Operation and Maintenance expenses for one month;
- b) Receivables equivalent to 45 days of tariff for the sale of electricity calculated on the normative Capacity Utilisation Factor or Plant Load Factor, as the case may be; and
- c) Maintenance spares equivalent to 15% of Operation and Maintenance expenses.

(2) The Working Capital requirement in respect of biomass power projects with Rankine cycle technology, biogas power projects, biomass gasifier based power projects and non-fossil fuel based co-generation projects shall be computed in accordance with the following:

- a) Fuel costs for four months equivalent to normative Plant Load Factor;
 - b) Operation and Maintenance expenses for one month;
 - c) Receivables equivalent to 45 days of tariff for the sale of electricity calculated on the plant load factor; and
 - d) Maintenance spares equivalent to 15% of Operation and Maintenance expenses.
- (3) In the case of renewable hybrid energy projects, the Working Capital requirement shall be the sum of the Working Capital requirement determined as per norms applicable for renewable energy sources in proportion to their rated capacity in the project.
- (4) Interest on Working Capital shall be at an interest rate equivalent to the normative interest rate of three hundred and twenty-five (325) basis points above the average State Bank of India Marginal Cost of Funds based Lending Rate (MCLR) (one-year tenor) prevalent during the last available six months.

18. Calculation of capacity utilization factor and plant load factor:

The number of hours in a year for calculation of the capacity utilization factor and plant load factor, as the case may be, shall be considered as 8766.

19. Operation and Maintenance Expenses

- (1) Operation and Maintenance expenses shall be determined for the Tariff Period of the project based on normative O&M expenses specified in these regulations for the first year of the Control Period.
- (2) Normative O&M expenses allowed during the first year of the Control Period, i.e. financial year 2024-25, under these regulations, shall be escalated at the rate of 5.25% per annum for the Tariff Period.

20. Rebate

- (1) For payment of bills of the generating company through revolving and valid letter of credit on presentation or through National Electronic Fund Transfer (NEFT) or Real Time Gross Settlement (RTGS) payment mode within a period of 5 days of presentation of bills, a rebate of 1.5% on bill amount shall be allowed.

Explanation: In case of computation of '5 days', the number of days shall be counted consecutively without considering any holiday. However, in case the last day or 5th day is an official holiday, the 5th day for the purpose of rebate shall be construed as the immediate succeeding working day.

- (2) Where payments are made on any day after 5 days within a period of one month from the date of presentation of bills by the generating company, a rebate of 1% shall be allowed.

21. Late payment surcharge

In case the payment of any bill for charges payable under these regulations is delayed beyond a period of 45 days from the date of presentation of bills, a late payment surcharge as specified in the Ministry of Power - Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 as amended from time to time shall be levied by the generating company.

22. Subsidy or incentive by the Central or the State Government

- (1) The Commission shall take into consideration any incentive, grant or subsidy from the Central or State Government, including accelerated depreciation benefit, availed by the project while determining the tariff under these regulations:

Provided that the following principles shall be considered for ascertaining income tax benefit on account of accelerated depreciation, if availed, for the purpose of tariff determination:

- i. Assessment of benefit shall be based on normative capital cost, accelerated depreciation rate and corporate income tax rate as per relevant provisions of the Income Tax Act, 1961, as amended from time to time; and
 - ii. Capitalization of renewable energy projects during the second half of the fiscal year.
 - iii. Per unit benefit shall be derived on a levelized basis at a discount factor equivalent to the weighted average cost of capital.
- (2) Any grant, subsidy or incentive availed by renewable energy project, which is not considered at the time of determination of tariff, shall be deducted by the

beneficiary in subsequent bills after receipt of such grant, subsidy or incentive in suitable instalments or within such period as may be stipulated by the Commission.

- (3) In case the Central or State Government or their agencies provide any generation-based incentive, which is specifically over and above the tariff, such incentive shall neither be taken into account while determining the tariff nor be deducted by the beneficiary in subsequent bills raised by the particular Renewable energy project.

23. Statutory Charges

The renewable energy project developer shall recover from the beneficiaries the statutory charges imposed by the State and Central Government, such as electricity duty on auxiliary consumption, subject to the maximum of normative auxiliary consumption.

Chapter 3: Parameters for wind power projects

24. Capital Cost

The Commission shall determine only project specific capital costs considering the prevailing market trends.

25. Capacity Utilisation Factor

- (1) Capacity utilization factor norms for this Control Period shall as follows:

Annual Mean Wind Power Density (W/m²)	Capacity Utilization Factor
Up to 220	22%
221-275	24%
276-330	28%
331-440	33%
> 440	35%

- (2) The annual mean wind power density specified in sub-regulation (1) above shall be measured at a 100-meter hub-height.

- (3) Wind power projects shall be classified into particular wind zone sites as per MNRE guidelines for wind measurement. Based on the validation of the wind mast by the National Institute of Wind Energy, the State Nodal Agency should certify the zoning of the proposed wind farm complex.

26. Operation and Maintenance expenses

The Commission shall determine only project specific O&M expenses considering the prevailing market trends.

Chapter 4: Parameters for small hydro projects

27. Capital Cost

- (1) The normative capital cost for small hydro projects during the first year of the Control Period, i.e. the financial year 2024-25, shall be as follows:

Region	Project Size	Capital Cost (Rs. lakh/ MW)
Himachal Pradesh, Uttarakhand, West Bengal, Union Territory of Jammu and Kashmir, Union Territory of Ladakh and North Eastern States	Below 5 MW	1200
	5 MW to 25 MW	1200
Other States	Below 5 MW	890
	5 MW to 25 MW	1027

- (2) The capital cost for small hydro projects as specified for the first year of the Control Period shall remain valid for the entire duration of the Control Period unless reviewed earlier by the Commission.

28. Capacity Utilisation Factor

The normative capacity utilization factor for the small hydro projects located in Himachal Pradesh, Uttarakhand, West Bengal, Jammu and Kashmir, Ladakh , North-Eastern States and Odisha shall be 45%; for Punjab, it shall be 40% and for other States, it shall be 30%:

Explanation: For the purpose of this Regulation, the normative capacity utilization factor is net of free power to the home State, if any.

29. Auxiliary Consumption

Normative auxiliary consumption for the small hydro projects shall be considered as 1.0%.

30. Operation and Maintenance expenses

(1) Normative O&M Expenses for the first year of the Control Period, i.e. financial year 2024-25 shall be as under:

Region	Project Size	O&M Expenses (Rs. lakh/ MW)
Himachal Pradesh, Uttarakhand, West Bengal, Union Territory of Jammu and Kashmir, Union Territory of Ladakh and North Eastern States	Below 5 MW	49.24
	5 MW to 25 MW	36.93
Other States	Below 5 MW	39.66
	5 MW to 25 MW	28.72

(2) Normative O&M Expenses allowed at the commencement of the Control Period, i.e. financial year 2024-25 under these regulations, shall be escalated at the rate specified in Regulation 19 of these Regulations for the Tariff Period.

Chapter 5: Parameters for biomass power projects based on Rankine cycle technology

31. Capital Cost

(1) The normative capital cost for the first year of the Control Period, i.e. financial year 2024-25 shall be as under:

Biomass power projects based on Rankine cycle technology	Capital Cost (Rs. lakhs/ MW)
Project [other than rice straw and juliflora (plantation) based project] with water-cooled condenser	638
Project [other than rice straw and Juliflora(plantation) based project] with air-cooled condenser	685
For rice straw and juliflora (plantation) based project with water-cooled condenser	697
For rice straw and juliflora (plantation) based project with air-cooled condenser	744

(2) The capital cost for biomass power projects based on Rankine cycle technology as specified for the first year of the Control Period shall remain valid for the entire duration of the Control Period unless reviewed earlier by the Commission.

32. Plant Load Factor

For the purpose of determination of tariff, the Plant Load Factor shall be considered as 80%.

33. Auxiliary Consumption

The normative auxiliary consumption shall be as follows: -

- For projects using water-cooled condenser: 10%
- For projects using air-cooled condenser: 12%

34. Station Heat Rate

The Station Heat Rate shall be:

- For projects using travelling grate boilers: 4200 kCal/kWh
- For projects using AFBC boilers: 4125 kCal/kWh

35. Operation and Maintenance expenses

Normative O&M Expenses for the first year of the Control Period, i.e. financial year 2024-25, shall be Rs.54.70 lakhs per MW and shall be escalated at the rate at the rate specified in Regulation 19 of these Regulations for the Tariff Period.

36. Use of Fossil Fuel

The use of fossil fuels shall not be allowed:

Provided that for biomass power projects based on Rankine cycle technology commissioned on or before 31.03.2017, the use of fossil fuels to the extent of 15% in terms of gross calorific value on an annual basis shall be allowed for the Useful Life of the project from the date of commercial operation.

37. Gross Calorific Value

The gross calorific value of biomass fuel, for the purpose of determination of tariff, shall be at 3100 kCal/kg.

38. Fuel Cost

Biomass fuel price during the first year of the Control Period, i.e. financial year 2024-25 shall be as specified in the table below and shall be escalated at the rate of 3.45% per annum to arrive at the base price for subsequent years of the Control Period unless reviewed earlier by Commission. For the purpose of determining levelized tariff, a normative escalation factor of 3.45% per annum shall be applicable on biomass fuel price.

State	Biomass Fuel prices for FY 2024-25 (Rs./MT)
Andhra Pradesh	3983
Haryana	4534
Maharashtra	4637
Punjab	4742
Rajasthan	3958
Tamil Nadu	3918
Telangana	3983
Uttar Pradesh	4053
Other States	4260

Provided that the Commission may review the biomass fuel price based on a study, consequent to which the table of biomass fuel price as provided in this Regulation shall stand modified with effect from the date of notification of the revised prices, by the Commission.

Chapter 6: Parameters for non-fossil fuel based co-generation projects

39. Capital Cost

Normative capital cost for the non-fossil fuel based co-generation projects shall be Rs. 562 lakhs/MW for the first year of the Control Period, i.e. financial year 2024-25 and will remain valid for the entire duration of the Control Period unless reviewed earlier by the Commission.

40. Plant Load Factor

The plant load factor for different States shall be as follows:

State	Plant Load Factor (%)
Uttar Pradesh and Andhra Pradesh	45%
Tamil Nadu and Maharashtra	60%
Other States	53%

41. Auxiliary Consumption

The auxiliary consumption shall be considered as 8.5% for the computation of the tariff.

42. Station Heat Rate

The Station Heat Rate of 3600 kCal/ kWh for the power generation component alone shall be considered for the computation of tariff for non-fossil fuel based co-generation projects.

43. Gross Calorific Value

The gross calorific value for bagasse shall be considered as 2250 kCal/kg. For the use of biomass fuels other than bagasse, gross calorific value as specified under Regulation 37 shall be applicable.

44. Fuel Cost

- (1) The price of bagasse for the first year of the Control Period, i.e. financial year 2024-25, shall be as specified in the table below and shall be escalated at the rate of 3.45% per annum to arrive at the base price for subsequent years of the Control Period unless specifically reviewed by Commission. For the purpose of determining levelized tariff, a normative escalation factor of 3.45% per annum shall be applicable on bagasse prices.

State	Bagasse Fuel Price for FY 2024-25 (Rs. /MT)
Andhra Pradesh	2249
Haryana	3199
Maharashtra	3152
Punjab	2815
Tamil Nadu	2423
Telangana	2248
Uttar Pradesh	2509
Other States	2723

Provided that the Commission may review the bagasse price based on study, consequent to which the table of bagasse price as provided in this Regulation shall stand modified with effect from the date of notification of the revised prices, by the Commission.

- (2) For use of biomass other than bagasse in non-fossil fuel based co-generation projects, the biomass prices as specified under Regulation 38 shall be applicable.

45. Operation and Maintenance expenses

Normative O&M expenses during the first year of the Control Period, i.e. financial year 2024-25, shall be Rs. 28.90 lakhs per MW and shall be escalated at the rate specified in Regulation 19 of these Regulations for the Tariff Period.

Chapter 7: Parameters for solar PV power projects, solar thermal power projects and floating solar projects

46. Capital Cost

The Commission shall determine only project specific capital costs considering the prevailing market trends.

47. Capacity Utilisation Factor

The Commission shall only approve capacity utilisation factors for project specific tariffs:

Provided that the minimum capacity utilization factor for solar PV power projects shall be 21%:

Provided further that the minimum capacity utilization factor for solar thermal power projects shall be 23%:

Provided also that the minimum capacity utilisation factor for floating solar projects shall be 19%.

48. Operation and Maintenance expenses

The Commission shall determine only project specific O&M expenses considering the prevailing market trends.

49. Auxiliary Consumption

The Commission shall only approve auxiliary consumption for project specific tariffs:

Provided that the maximum auxiliary consumption for solar PV power projects shall be 0.75%;

Provided further that the maximum auxiliary consumption for solar thermal power projects shall be 10%;

Provided also that the maximum auxiliary consumption for floating solar projects shall be 0.75%.

Chapter 8: Parameters for biomass gasifier based power projects

50. Capital Cost

Normative capital cost for biomass gasifier based power projects shall be Rs.677 lakhs/MW during the first year of the Control Period, i.e. the financial year 2024-25, and will remain valid for the entire duration of the Control Period unless reviewed earlier by the Commission.

51. Plant Load Factor

The plant load factor for determination of tariff shall be considered as 85%.

52. Auxiliary consumption

The auxiliary consumption shall be considered as 10% for the determination of the tariff.

53. Specific fuel consumption

Normative specific fuel consumption shall be 1.25 kg per kWh.

54. Operation and Maintenance expenses

Normative O&M expenses for the first year of the Control period, i.e. financial year 2024-25, shall be Rs. 72.25 lakhs per MW and shall be escalated at the rate specified in Regulation 19 of these Regulations for the Tariff Period.

55. Fuel Cost

Biomass fuel price for biomass gasifier-based power projects shall be the same as for biomass power projects based on Rankine cycle technology as mentioned in Regulation 38.

Chapter 9: Parameters for biogas based power projects

56.Capital Cost

Normative capital cost for biogas based power projects shall be Rs.1354 lakhs/MW for the first year of the Control Period, i.e. financial year 2024-25 and shall remain valid for the entire duration of the Control Period unless reviewed earlier by the Commission.

57.Plant Load Factor

Plant load factor shall be considered as 90% for determination of tariff.

58.Auxiliary Consumption

The auxiliary consumption shall be considered as 12% for the determination of the tariff.

59.Operation and Maintenance Expenses

Normative O&M expenses for the first year of the Control Period, i.e. financial year 2024-25 shall be Rs. 72.25 lakhs per MW and shall be escalated at the rate specified in Regulation 19 of these Regulations for the Tariff Period.

60.Specific Fuel Consumption

Normative specific fuel consumption shall be 3 kg of substrate mix per kWh.

61.Fuel Cost (Feedstock Price)

Feedstock price during the first year of the Control Period, i.e. financial year 2024-25, shall be Rs. 1702/MT and shall be escalated at the rate of 3.45% per annum to arrive at the base price for subsequent years of the Control Period unless specifically reviewed by the Commission. For the purpose of determining levelized tariff, a normative escalation factor of 3.45% per annum shall be applicable.

Chapter 10: Parameters for refuse derived fuel (RDF) based municipal solid waste (MSW) power projects

62. Capital Cost

Normative Capital Costs for first year of the Control Period for RDF based MSW power project shall be Rs. 2200 Lakh/MW.

63. Plant Load Factor

(1) Plant load factor for determining tariff for refuse derived fuel based municipal solid waste power projects shall be:

Sl. No.	Plant load factor	RDF
a)	During stabilisation period	65% ✓
b)	During the remaining period of the first year (after the stabilization period)	65% ✓
c)	2nd year onwards	80% ✓

(2) The stabilisation period shall not be more than 6 months from the date of commercial operation of the project.

64. Auxiliary Consumption

The auxiliary consumption for determination of tariff shall be considered as 15%. *

65. Operation and Maintenance Expenses

Normative O&M expenses for the first year of the Control Period shall be 8.5% of the Capital Cost of RDF based MSW power project.

66. Fuel Cost

No Fuel Cost shall be considered for the determination of tariffs for RDF power projects.

Provided that for the purpose of start-up and shut down activity and temperature stabilisation during monsoon, alternate fuel from any other renewable energy source up to a ceiling of 5% of RDF consumed annually, shall be allowed without any additional impact on tariff. ✓

Chapter 11: Parameters for Renewable Hybrid Energy Projects

67.Capital Cost

The capital cost shall be determined on a project specific basis considering the prevailing market trends.

68.Capacity Utilisation Factor

(1) The Commission shall determine only project specific capacity utilisation factor in respect of renewable hybrid energy projects, taking into consideration the proportion of rated capacity of each renewable energy source, as the case may be,

and applicable capacity utilisation factor for such renewable energy sources, as the case may be:

Provided that the minimum capacity utilization factor for renewable hybrid energy projects shall be 30% when measured at the inter-connection point, where the energy is injected into the grid.

69.Operation and Maintenance expenses

The Commission shall determine only project specific O&M expenses considering the prevailing market trends.

70.Tariff

The tariff for a renewable hybrid energy project shall be a composite levelised tariff for the project as a whole by factoring in the tariff components up to the minimum of the useful life of the RE technologies combined for such RE hybrid Project:

Provided that, in case any of the RE technologies combined for the RE hybrid project is left with a further useful life, the levelised tariff for the remaining useful life of such RE technology shall be determined separately by factoring in the tariff components for the remaining useful life.

Chapter 12: Parameters for renewable energy with storage project

71.Capital Cost

The Commission shall determine only project specific capital costs for renewable energy with storage projects considering the prevailing market trends

72.Storage Efficiency

- (1)The Commission shall approve the storage efficiency only for project specific tariffs:

Provided that the minimum efficiency for storage based on the technology of solid-state batteries shall be 85%:

- (2) Efficiency of the storage component of renewable energy with a storage project shall be measured as the ratio of output energy received from storage and input energy supplied to the storage component of such project on an annual basis.

73.Operation and Maintenance expenses

The Commission shall determine only project specific O&M expenses considering the prevailing market trends.

74.Tariff determination for Energy Storage

The tariff for renewable energy with storage project shall be a composite tariff or differential tariff based on the time of day, determined for energy supplied from the Project, including the energy supplied from the storage facility:

Provided that such tariff may be determined for the supply of power on round the clock basis or for time periods as agreed by the Project Developer and Beneficiary.

Chapter 13: Miscellaneous

75.Deviation from norms

Tariff for electricity generated from a generating station based on renewable energy sources may also be agreed upon between the generating company and beneficiary, in deviation from the norms specified in these regulations:

Provided that the levelized tariff of the project calculated on the basis of the norms specified in these regulations shall be the ceiling levelized tariff.

76.Power to Relax

The Commission, may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected, relax any of the provisions of these regulations on its own motion or on an application made before it by an interested person.

77.Power to remove difficulty

If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by general or specific order, make such provisions not inconsistent with the provision of the Act, as may appear to be necessary for removing the difficulty.

Sd/

(Harpreet Singh Pruthi)

Secretary

APPENDIX

Form-1.1: Template for (Wind power projects/ Small hydro projects/ Solar PV power projects/ Solar thermal power projects/ Renewable energy hybrid power projects /Renewable energy with storage projects /RDF)

Sl. No.	Assumption Head	Sub-head	Sub-head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	
			Capacity Utilization Factor (CUF)	%	
			Auxiliary Consumption	%	
			Commercial Operation Date (COD)	dd/mm/yyyy	
			Useful Life	Years	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Crore/ MW	
			Capital Cost	Rs. Crore	
			Capital Subsidy, if any	Rs. Crore	
			Net Capital Cost	Rs. Crore	
3	Financial Assumption	Debt Equity	Tariff Period	Years	
			Debt	%	
			Equity	%	
		Debt Component	Total debt amount	Rs. Crore	
			Total equity amount	Rs. Crore	
			Loan Amount	Rs. Crore	
			Moratorium Period	Years	
			Repayment Period (incl moratorium)	Years	
			Interest Rate	%	
		Equity Component	Equity Amount	Rs. Crore	
			Return on Equity for First 20 years	% p.a.	
			Return on Equity after 20 years	% p.a.	
			Discount Rate	%	
		Depreciation	Dep Rate for 1st 15 years	%	
			Dep rate 16th year onwards	%	
		Incentives	GBI, if any	Rs. Crore	
			Period for GBI	Years	
4	O& M Expenses	Normative O&M Expense		Rs. Lakh/MW	
		O&M Expenses p.a.		Rs. Crore	
		Escalation Factor		%	
5	Working Capital	O&M Expenses		Month	
		Maintenance Spares	% of O&M Expenses	%	
		Receivables		Days	
		Interest on Working Capital		% per annum	

Form-1.2: Template for (Biomass)

Sl. No.	Assumption Head	Sub-head	Sub-head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	
			Aux Consumption	%	
			PLF (1st year)	%	
			PLF (2nd year onwards)	%	
			Commercial Operation Date	dd/mm/yyyy	
			Useful Life	Years	
2	Project Cost	Capital Cost/ MW	Normative Capital Cost	Rs. Crore /MW	
			Capital Cost	Rs. Crore	
			Capital Subsidy, if any	Rs. Crore	
			Net Capital Cost	Rs. Crore	
3	Financial Assumption	Debt Equity	Tariff Period	Years	
			Debt	%	
			Equity	%	
		Debt Component	Total debt amount	Rs. Crore	
			Total equity amount	Rs. Crore	
			Loan Amount	Rs. Crore	
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	
			Interest Rate	%	
		Equity Component	Equity Amount	Rs. Crore	
			Return on Equity for First 20 years	% p.a.	
			Return on Equity after 20 years	% p. a.	
			Discount Rate	%	
		Depreciation	Dep Rate for 1 st 15 years	%	
			Dep rate 16 th year onwards	%	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	
		O&M Expenses p.a.		Rs. Crore	
		Escalation Factor		%	
5	Working Capital	O&M Expenses		Month	
		Maintenance Spares	% of O&M Expenses	%	
		Receivables		Days	
		Interest on WC		%	

Sl. No.	Assumption Head	Sub-head	Sub-head (2)	Unit	Parameter
6	Fuel Related assumptions	Station Heat Rate	During 1st year	kcal/kWh	
			2nd year onwards	kcal/kWh	
		Fuel Type and mix	Biomass Fuel Type-1	%	
			Biomass Fuel Type-2	%	
			Fossil Fuel (Coal)	%	
			GCV of Biomass Fuel Type-1	kcal/kWh	
			GCV of Biomass Fuel Type-2	kcal/kWh	
			GCV of Fossil Fuel (Coal)	kcal/kWh	
			Biomass Price (Fuel Type-1)/ Yr 1	Rs./MT	
			Biomass Price (Fuel Type-2)/ Yr 1	Rs./MT	
			Fossil Fuel (Coal) Price)/ Yr 1	Rs./MT	
			Fuel Price Escalation Factor	% p.a.	

Form-2.1: Template for (Wind power projects or Solar PV power projects /Solar thermal power projects/ RDF): Determination of Tariff Components

Units Generation	Unit	Yr-1	Yr-2		Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
Installed Capacity	MW													
Net Generation	MU													

Units Generation	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Installed Capacity	MW													
Net Generation	MU													

Tariff Components (Fixed charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
O&M Expenses	Rs Lakh												
Depreciation	Rs Lakh												
Interest on term loan	Rs Lakh												
Interest on working Capital	Rs Lakh												
Return on Equity	Rs Lakh												
Total Fixed Cost	Rs Lakh												

Tariff Components (Fixed charge)	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
O&M Expenses	Rs Lakh													
Depreciation	Rs Lakh													
Interest on term loan	Rs Lakh													
Interest on working Capital	Rs Lakh													
Return on Equity	Rs Lakh													
Total Fixed Cost	Rs Lakh													

Per Unit Tariff components	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
PU O&M expenses	Rs/kWh												
PU Depreciation	Rs/kWh												
PU Interest on term loan	Rs/kWh												
PU Interest on working capital	Rs/kWh												
PU Return on Equity	Rs/kWh												
PU Tariff Components	Rs/kWh												

Per Unit Tariff components	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
PU O&M expenses	Rs/kWh													
PU Depreciation	Rs/kWh													
PU Interest on term loan	Rs/kWh													
PU Interest on working capital	Rs/kWh													
PU Return on Equity	Rs/kWh													
PU Tariff Components	Rs/kWh													

Levelized Tariff	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
Discount Factors													
Discounted Tariff components	Rs/kWh												
Levelized Tariff	Rs/kWh												

Levelized Tariff	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Discount Factors														
Discounted Tariff components	Rs/kWh													
Levelized Tariff	Rs/kWh													

Form-2.2: Template for (Biomass power projects or non-fossil fuel based co-generation plants): Determination of Tariff Components

Units Generation	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
Installed Capacity	MW												
Net Generation	MU												

Units Generation	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Installed Capacity	MW													
Net Generation	MU													

Tariff Components (Fixed charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
O&M Expenses	Rs Lakh												
Depreciation	Rs Lakh												
Interest on term loan	Rs Lakh												
Interest on working Capital	Rs Lakh												
Return on Equity	Rs Lakh												
Total Fixed Cost	Rs Lakh												

Tariff Components (Fixed charge)	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
O&M Expenses	Rs Lakh													
Depreciation	Rs Lakh													
Interest on term loan	Rs Lakh													
Interest on working Capital	Rs Lakh													
Return on Equity	Rs Lakh													
Total Fixed Cost	Rs Lakh													

Tariff Components (Variable Charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
Biomass Fuel Type-1	Rs Lakh												
Biomass Fuel Type-2	Rs Lakh												
Fossil Fuel (coal)	Rs Lakh												
Municipal Solid Waste	Rs Lakh												
Refuse Derived Fuel	Rs Lakh												
Sub-total (Fuel Costs)	Rs Lakh												
Fuel cost allocable to power	%												
Total Fuel Costs	Rs Lakh												

Tariff Components (Variable Charge)	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Biomass Fuel Type-1	Rs Lakh													
Biomass Fuel Type-2	Rs Lakh													
Fossil Fuel (coal)	Rs Lakh													
Municipal Solid Waste	Rs Lakh													
Refuse Derived Fuel	Rs Lakh													
Sub-total (Fuel Costs)	Rs Lakh													
Fuel cost allocable to power	%													
Total Fuel Costs	Rs Lakh													

Per Unit Tariff components (Fixed)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
PU O&M expenses	Rs/kWh												
PU Depreciation	Rs/kWh												
PU Interest on term loan	Rs/kWh												
PU Interest on working capital	Rs/kWh												
PU Return on Equity	Rs/kWh												
PU Tariff Components (Fixed)	Rs/kWh												
PU Tariff Components (Variable)	Rs/kWh												
PU Tariff Components (Total)	Rs/kWh												

Per Unit Tariff components (Fixed)	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
PU O&M expenses	Rs/kWh													
PU Depreciation	Rs/kWh													
PU Interest on term loan	Rs/kWh													
PU Interest on working capital	Rs/kWh													
PU Return on Equity	Rs/kWh													
PU Tariff Components (Fixed)	Rs/kWh													
PU Tariff Components (Variable)	Rs/kWh													
PU Tariff Components (Total)	Rs/kWh													

Levelized Tariff	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12
Discount Factors													
Discounted Tariff components (Fixed)	Rs/kWh												
Discounted Tariff components (Variable)	Rs/kWh												
Discounted Tariff components (Total)	Rs/kWh												
Levelized Tariff (Fixed)	Rs/kWh												
Levelized Tariff (Variable)	Rs/kWh												
Levelized Tariff (Total)	Rs/kWh												

Levelized Tariff	Unit	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Discount Factors														
Discounted Tariff components (Fixed)	Rs/kWh													
Discounted Tariff components (Variable)	Rs/kWh													
Discounted Tariff components (Total)	Rs/kWh													
Levelized Tariff (Fixed)	Rs/kWh													
Levelized Tariff (Variable)	Rs/kWh													
Levelized Tariff (Total)	Rs/kWh													

Form-2.3: Template for (Small Hydro projects): Determination of Tariff Components

Units Generation	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13
Installed Capacity	MW													
Net Generation	MU													

Units Generation	Unit	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25	Yr-26
Installed Capacity	MW													
Net Generation	MU													

Units Generation	Unit	Yr-27	Yr-28	Yr-29	Yr-30	Yr-31	Yr-32	Yr-33	Yr-34	Yr-35	Yr-36	Yr-37	Yr-38	Yr-39	Yr-40
Installed Capacity	MW														
Net Generation	MU														

Tariff Components (Fixed charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13
O&M Expenses	Rs Lakh													
Depreciation	Rs Lakh													
Interest on term loan	Rs Lakh													
Interest on working Capital	Rs Lakh													
Return on Equity	Rs Lakh													
Total Fixed Cost	Rs Lakh													

Tariff Components (Fixed charge)	Unit	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25	Yr-26
O&M Expenses	Rs Lakh													
Depreciation	Rs Lakh													
Interest on term loan	Rs Lakh													
Interest on working Capital	Rs Lakh													
Return on Equity	Rs Lakh													
Total Fixed Cost	Rs Lakh													

Tariff Components (Fixed charge)	Unit	Yr-27	Yr-28	Yr-29	Yr-30	Yr-31	Yr-32	Yr-33	Yr-34	Yr-35	Yr-36	Yr-37	Yr-38	Yr-39	Yr-40
O&M Expenses	Rs Lakh														
Depreciation	Rs Lakh														
Interest on term loan	Rs Lakh														
Interest on working Capital	Rs Lakh														
Return on Equity	Rs Lakh														
Total Fixed Cost	Rs Lakh														

Per Unit Tariff components	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13
PU O&M expenses	Rs/kWh													
PU Depreciation	Rs/kWh													
PU Interest on term loan	Rs/kWh													
PU Interest on working capital	Rs/kWh													
PU Return on Equity	Rs/kWh													
PU Tariff Components	Rs/kWh													

Per Unit Tariff components	Unit	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25	Yr-26
PU O&M expenses	Rs/kWh													
PU Depreciation	Rs/kWh													
PU Interest on term loan	Rs/kWh													
PU Interest on working capital	Rs/kWh													
PU Return on Equity	Rs/kWh													
PU Tariff Components	Rs/kWh													

Per Unit Tariff components	Unit	Yr-27	Yr-28	Yr-29	Yr-30	Yr-31	Yr-32	Yr-33	Yr-34	Yr-35	Yr-36	Yr-37	Yr-38	Yr-39	Yr-40
PU O&M expenses	Rs/kWh														
PU Depreciation	Rs/kWh														
PU Interest on term loan	Rs/kWh														
PU Interest on working capital	Rs/kWh														
PU Return on Equity	Rs/kWh														
PU Tariff Components	Rs/kWh														

Levelized Tariff	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13
Discount Factors														
Discounted Tariff components	Rs/kWh													
Levelized Tariff	Rs/kWh													

Levelized Tariff	Unit	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25	Yr-26
Discount Factors														
Discounted Tariff components	Rs/kWh													
Levelized Tariff	Rs/kWh													