भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

प्रदेश आन्ध्र प्रदेश ANDHRA PRADESH

BT 203

K.J. SUKUMA

LICENSED STAMP V

AGREEMENT

The Agreement executed on this 11th day of ____ between M/s / Mr. / Mrs. S/o / D/o / W/o _____ which means their/ his/its /theirs successors as ONE PART herein after called as "Prosumer" and the Northern Power Distribution Company of A.P Limited, a DISCOM incorporated under the provisions of Companies Act 1956 consequent to the AP Electricity Reforms Act, 1998 (which means its authorized representatives assigns, executors and its successors) as OTHER PART, herein after called the "DISCOM").

1. **Installation of Solar Grid Interactive rooftop and small SPV power plant**

In accordance with the policy announced by GoAP vide G.O.Ms.No.22, Dt.25.03.2013 DISCOM has introduced the scheme of "Solar Net Metering" for those consumers who intend to encourage solar green energy and set up solar PV plants at unutilized places on rooftops, waste lands, buildings of individual households, industries, offices, institutions, residential complexes etc.

Capacity of the SPV plant and Maximum contracted load of the premises

Prosumer is proposing to install rooftop solar power plant of – KW capacity under Solar net metering facility at D.No.----, Street ----, --- (V), --- (M) having electrical Service Connection No.--- for a contracted load of --- KW/HP/KVA. The Prosumer have requested DISCOM to provide grid connectivity/necessary permissions to connect rooftop solar power plant and supply solar energy into the distribution network of DISCOM at --- voltage level.

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Governing Provisions

Prosumer hereby undertake to comply with all the requirements of the Electricity act, 2003, the Rules and Regulations framed there under, provisions of the tariffs, applicable Charges and the General Terms and Conditions of Supply prescribed by the DISCOM with the approval of the Andhra Pradesh Electricity Regulatory Commission herein after called as "Commission" from time to time and agree not to dispute the same.

Strategy of implementation

Implementation of net metering facility will be as per the following guidelines.

i. Under this facility, Prosumer will generate solar power for self consumption and feed excess power into DISCOM network.

ii. Net metering is the concept, which records net energy between export of generated energy and import of DISCOM energy for a billing month. Alternatively, the meter, having the feature of recording both the import and export values, besides other parameters notified by CEA metering regulations and APTRANSCO/DISCOM procedures in vogue, shall also be allowed for arriving net energy for the billing period.

Settlement of energy charges

The Prosumer shall pay for the net energy in a billing month as per applicable retail supply tariff decided by regulatory commission to the concerned DISCOM, if the supplied energy by the DISCOM is more than the injected energy by the solar PV sources of the Prosumer(s). Any excess/ surplus energy injected in to DISCOM network in a billing month will be treated as inadvertent and no payment will be paid for such energy.

1. Any modification/ amendment in the Policy and change in law would be made applicable and corresponding amendment(s) will be made in the agreement from time to time with the approval of APERC.

Safety, Security & Insurance

The Prosumer is required to provide an appropriate protection system on their incoming side/ consumer premises with the feature of "islanding the SPV Generator" when incoming supply fails or any interruption on the connected line due to failure of equipment/line or Line Clear taken for carrying any maintenance work. As a part of security check, the feature of "islanding the SPV generator" shall have to be checked up for its healthiness twice in a year. In order to meet the expenditure that may arise due to electrocution in the event of failure of the connected protective and switch gear, the Prosumer is required to provide an insurance coverage of 5,00,000 per annum.

Metering Arrangement

The Prosumer shall bear the entire cost of metering arrangement provided including its accessories. The installation of meters including CTs & PTs, wherever applicable, shall be carried out as per the departmental procedures in vogue with prior permission of DISCOMs. Alternatively, DISCOM will provide the metering arrangement at the Prosumer premises after receipt of entire estimated cost from the Prosumer.

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Request for Connectivity

The Prosumer will submit the required information in the prescribed format to the DISCOM and get the proper acknowledgement and shall also provide related interconnection equipment as per the DISCOM's technical requirements, including safety and performance standards. To prevent a net metering prosumer from back-feeding a de-energized line, the Prosumer shall install an isolator switch that is accessible to Company personnel at all hours.

The Customer shall not commence parallel operation of the net metering facility until the Customer has received approval to operate from the competent authority of DISCOM.

Modifications or changes made to a Generator shall be evaluated by the DISCOM prior to modifications/changes. The Prosumer shall provide detailed information describing the modifications or changes to the DISCOM in writing prior to making the modification to the generating facility. The DISCOM shall review the proposed changes to the generating facility and provide the results of its evaluation to the Prosumer within forty- five (45) calendar days of receipt of the Customer's proposal. Any items that would

prevent parallel operation due to violation of applicable safety standards and/or power generation limits shall be explained along with a description of the modifications necessary to remedy the violations.

Standards for Solar panels

The Solar PV panels proposed to be installed shall meet the requirements of Indian as well as IEC standards. Further, the documentary evidence proving the prescribed standards has to be furnished by Prosumer to the concerned authority (DE/Operation) of the DISCOM before commencing the plant into operation. The Prosumer shall get the statutory approvals from appropriate safety authority (CEIG) of the connected electrical equipment and solar panels before plant energization.

Injection of Solar Power

The Solar power produced shall be injected in to the DISCOM network only after obtaining prior approval from Divisional Engineer/Operation/---/APNPDCL and meeting all the requirements of departmental standards, viz., protection switchgear, metering, feasibility approval etc.

Date of enforceability of the Agreement

This agreement will be in a force for a period of 20 years from the date of commencement of this agreement, after meeting all the requirements by the Prosumer under the conditions of this Agreement and in accordance with the policy on Solar net metering and its future amendments, if any.

Interruption or Reduction of delivery

The DISCOM shall not be obligated to accept and may require Prosumer to interrupt or reduce deliveries when necessary in order to construct, install,

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repair, replace, remove, investigate, or inspect any of its equipment or part of its system, or if it reasonably determines that curtailment, interruption, or reduction is necessary because of emergencies, forced outages or compliance with prudent electrical practices. Whenever possible, the DISCOM shall give the Prosumer reasonable notice of the possibility that interruption or reduction of deliveries may be required.

8. **Access to premises**
The DISCOM's personal may enter the Prosumer's premises to inspect the Prosumer's protective devices and read or test the meter.

9. **Dispute Resolution**
If at any time the DISCOM reasonably determines that either the Prosumer may endanger the DISCOM's personnel or other persons or property, or the continued operation of the Prosumer's generator may endanger the integrity or safety of the DISCOM's electric system, or the Prosumer is not operating the system in compliance with the terms and conditions of this agreement the DISCOM shall have the right to disconnect and lock out the SPV Generator facility from the Company's electric system until the DISCOM is reasonably satisfied that the SPV Generator can operate in a safe and compliant manner.

Any other dispute arising under/out of this agreement shall be resolved promptly in good faith and in an equitable manner by both the parties. Failing

resolution of the dispute, party may approach the commission under section 86 (1) (f) of EA 2003.

10. **Termination of the Agreement**
The agreement will be terminated only after its completion period until all the safety standards are adhered to. The DISCOM has the right to terminate the agreement on breaching of any of the rules agreed upon with one month notice. If Prosumer intends to pre close or terminate the agreement, Prosumer may do so with 3 months prior notice.

10. **Re-Sale of Electric Power**
The Prosumer shall not sell electricity generated under this agreement without the sanction in writing obtained from the DISCOM.

11. **Obligation of Consumer to pay all charges levied by DISCOM**
The Prosumer shall abide by the rules and shall pay the Maximum Demand Charges, energy charges, surcharges, meter rents and other charges, if any, to the DISCOM in accordance with the notified Tariff besides the applicability of the General Terms and Conditions of Supply prescribed by the APERC from time to time.

12. **Right of DISCOM to amend the Agreement**
DISCOM shall have the right to amend any of the section of the agreement according to the exigencies. Further, the DISCOM shall have the right to reduce/enhance the rates chargeable for supply of electricity as per retail supply tariff announced by commission from time to time.

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13. **Monthly Minimum Charges**
The Prosumer shall pay the minimum charges every month as prescribed in retail supply Tariff and as per General Terms and Conditions of supply, even if no electricity is consumed for any reason whatsoever

14. **Theft of electricity or unauthorised use of electricity**
Prosumer found indulging in theft of electricity or unauthorised use of electricity shall pay the penal/additional charges as may be levied by the DISCOM besides disconnection of supply as per the provisions of IE Act 2003 and General Terms and Conditions of supply

15. **Prosumer has agreed to pay the monthly meter rentals besides other charges as may be fixed by the commission from time to time**

Signature of Prosumer	Signature of Prosumer 8/12/2017
Date	Date
Witness 1	Witness 2
Signature	Signature R. Subramanyam
Name & Address D. Lokanadha Raju A.M. Prasad Vill/Post Vedamukkal Mandal Chittoor Dt	Name & Address R. Subramanyam 167, Main Road Nangavaram Chittoor
Date	Date

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Project completion Report for Solar Power Plants (51- 500kWp)
Part-A (By The Installer)

S No	Component	Observation
1	Sanction No & Date	03/38/2015-16/GCRT 31-12-2015
2	**Category**:-Nodal Agency/ Channel partner (Name) and Complete Address	New &Renewable Energy Development Corporation of Andhra Pradesh, (NREDCAP) 5-8-207/2,Pisgah Complex, Nampally, Hyderabad-500 001
	Site/Location with Complete Address	Jaya Educational Society, Siddhartha Nagar Narayanavanam Road, Puttur -517 583, Tirupati, Chittor Dist, Andhra Pradesh.
	Longitude/Latitude	13.42'N/79.58'E
3	**Capacity of system Installed (kWp)**	500kWp
4	**Specification of the Modules**	
	Type of modules(multi/mono)	Multi
	Make of Modules and year of manufacturing	Vikram Solar,2016/17
	Wattage and no of modules	260Wp,& 1920 No's
	Module Efficiency	16%(I-V Curve of 5 Modules Enclosed)
	No of series &Parallel combinations	20 Modules are Connected in series in each array string. 96 such strings have been connected in Parallel.
	Tilt Angle of Modules	10°Degrees
4.1	Date of issue Agency Validity Enclose a IEC certificate	28 May 2015 TUV Rheinland Japan Ltd 27 January 2020 Copy Enclosed- Annexure-1
4.2	Whether imported or indigenous.	Indigenous
4.3	RFID tag is pasted inside or outside	Pasted Inside
4.4	Type of RFID	Passive
5	PCU	
	Make, & rating Type of Charge controller/MPPT	Toshiba Mitsubishi-Electric Industrial Systems Corporation MPPT Charge Controller
	Capacity of inverter and year of manufacturing	750KVA Inverter System April-2016
	AC Output	380Vac
	Whether hybrid or stand alone	Stand-Alone
	Whether indigenous or imported	Indigenous

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	Enclose test certificate as per MNRE requirement	Enclosed - Annexure-2
	Input Voltage to Inverter	Maximum - 1000Vdc
6	**Batteries**	
	Make of batteries and year of manufacturing	NA
	Type: Tubular Lead Acid /VRLA/GEL	NA
	Rating and no.	NA
	No of series and parallel combinations	NA
	Enclose test certificate as per MNRE requirement	NA
7	Depth of Discharge Proposed	NA
	Autonomy(Days)	NA
8	**Structures**	
	Tracking or non-tracking	Non Tracking
	Indigenous or imported	Indigenous
9	**Cables Make and size**	Poly Cab & Siechem 1) 4 Sq mm Single Core cable 2) 2C*95Sq mm AL Armoured Cable 3) 3C*95 Sq mm AL Armoured Cable
	Enclose Certificate: Rating:-	Enclosed Annexure-3 1.1KV Grade
	voltage of cable	1.1KV Grade
10	**Distribution Box**	
	Name	Array Combiner Box
	Make	Trinity Touch
	Certificate	Enclosed Annexure-4
11	**Earthling and protections**	Chemical Type Maintenance Free
	Lightening Arrester (Type)	Lightning Rod (ESE)
12	**Date of Commissioning**	12-03-2017, Annexure-5
13	**Enclose Generation data for One month (for without battery systems)**	Enclosed - Annexure-6
13a.	**Enclose energy consumption Data for one month (for battery based systems)**	NA
14	**Monitoring Mechanism for the installed System**	Remote & SCADA System
15	**Technical Person Trained to maintain the system Name and Mobile No.**	Yes,

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No:
PLACE OF VISIT
PURPOSE

Declaration

It is to certify that all the components/subsystems and materials including junction boxes, cables, distribution boards. switches, circuit barkers used areas per MNRE requirement and as per DPR submitted.

JISNU SOLAR PVT. LTD. HYD.

(Channel Partner/SNA) With seal

Date:

Place:

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NET METER Solar Generating Unit Synchronisation Report/ Test Report

SOUTHERN POWER DISTRIBUTION COMPANY OF A.P LTD

26

The Asst. Divisional Engineer
Operation,
Puttur

Asst.Divisional Engineer
T.Meters, Tirupati
Tirupati.

Lr. No. ADE/ HTM/ TPT / F. HT 401/ D.No. 192 / 17 dt: 14 -03 -2017

Sir,

Sub:- APSPDCL –H.T Meters- Tirupati – Attending for replacement of existing HT Trivector meter with HT Net meter by replacing existing cubicle of 10/5A of class 0.5s with healthy cubicle of 40/5A of class 0.2s and 5VA Burden to HT-CTPT 401 M/s. Jaya Educational Society for synchronization of 500KW Solar Power Plant erected in (O) Section Narayanavanam -Vide releasing order SE/O/TPT/DE/T/ADE/AAE/Coml/F./D.No. 377/17 dt: 23.02.2017.

* * * *

The HT Sc.401 (CMD: 190KVA) M/s .Jaya Educational Society, Narayanavanam for replacement of existing HT Trivector meter with HT Net meter by replacing existing cubicle of 10/5A class 0.5s with healthy cubicle of 40/5A of class 0.2s and 5VA burden for synchronization of 500KW Solar Power Plant erected on Rooftop under HT cat-II has been inspected on 11.03.2017 . The following observation are :

Before replacing existing meter is tested and found satisfactory and meter data is downloaded and final readings noted.

Meter Particulars		
Removed		Fixed
Secure	Make	Elster
APS06175	Sl.No	05294614
11KV/110V	P.T Ratio	-/110V
10/5A	C.T Ratio	-/5A
E3M055	Type	Alpha R++
0.5s	Class	0.2s
119/07-08 dt: 11.09.07	Po.No	510000 dt: 11-2014

Cubicle Particulars		
Removed		Fixed
Vishal	Make	G.S Electricals
VTS/Dec/022/308-029	Sl.No	GS/MC/16-17/1030
11KV/110V 30VA	P.T Ratio	11KV/110V 10VA 0.2
10/5A 10VA 0.5	C.T Ratio	40/5A 5VA 0.2s
222/08-09 dt:14.11.08	Po.No.	5100003309 dt: 30.08.16
2009	Y/M	2016-17

New erected cubicle is meggered and found IR values as

Primary to body > 1000MΩ
Secondary to body > 1000MΩ
Primary to secondary > 1000MΩ
DC resistance RY=YB=BR= 3.56KΩ

CTPT polarity test is conducted and found connections are satisfactory
CTPT ratio test is conducted and confirmed as 40/5A and 11KV/110V respectively
The cubicle is test charged at on 11.03.2017 and voltages found at TTB:

RY: 107.7V YB: 107.0V BR: 107.8V
Rn: 62.4V Yn: 61.9V Bn: 61.8V

11.03.2017 and reading are noted in the meter

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R old meter	Parameters	I.R of New meter Imp	Exp
2702100	KWh	0.3	0.0
453102	KVArh (G)	0.1	0.0
267634	KVArh (D)	0.0	0.0
2762951	KVAh	0.4	0.0
51.7	MD	0.0	0.0
113	Bills	01	
11295.0	CMD	0.22	0.0
6.38	V1	64.05	
6.39	V2	63.65	
6.41	V3	62.87	
5.315	A1	0.040	
5.873	A2	0.041	
5.192	A3	0.045	
306869	Kwh 5C	0.0	
314873	KVAh 5C	0.0	
101.3	KVA 5C	0.0	

Multiplication factor = $\frac{11KV/110V \times 40/5A}{\sqrt{}110V \times \sqrt{}5A}$ = 800 for all

ealing particulars:

Seals cut		Sealing point	Seals Provided	
mpression	Number		Number	Impression
-	-	MC Top Inspn	A1237099, 100	Plastic seal
-	-	MC Top Inspn cover	A1237101, 02	-do-
SD/ TPT	TPT231523, 24	I/C cable box door	A1237103, 04	-do-
	5441973, 76	MC secondary	A1237105 to 08	-do-
-	-	Meter board fixed bolts	A1237109 to 11	-do-
SPDCL ADE-HT 1200 SPDCL MRT-T 1200	11610S, 13S	Meter cover fixed bolts	A1237112 to 115	-do-
		Meter cover	A1237116, 117	-do-
SPDCL ADE-HT 1200 SPDCL MRT-T 1200	11614S, 15S	Meter TC	A1237118, 119	-do-
		Meter RS port	A1237120	-do-
-	-	Meter OP	A1237121	-do-
-	-	Meter MD	A1237122	-do-
Plastic seal	A830145, 46	TTB	A1237123, 24	-do-
-do-	742511, 12	Box Door	A1237125, 26	-do-

Remarks:- 1) The existing meter and cubicle is a replaced with healthy cubicle of 40/5A and HT Net Meter at 11.03.2017.
2) Old and new fixed meters data down loaded for analysis.
3) OMF is changed from 1.0 to 800 w.e.f 11.03.2017.

Asst. Divisional Engineer
H.T.Meters :: Tirupati.

Copy submitted to
The Superintending Engineer/operation/ Tirupati.
The Senior Account officer/O/o the SE/Operation/Tirupati.
The Divisional Engineer /Meters & Protection/ Tirupati
The Divisional Engineer /Operation/Puttur
The Divisional Engineer/DPE/Tirupati.
Copy to the Electrical Engineer/M/s. Jaya Educational Society, Narayanavaram
Copy to the Asst. Divisional Engineer /DPE/HT/Tirupati

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Name: M/s Jaya Educational Society,
Section : Narayanavanam

HT SC NO. TPT 401

Month	KWH Readings		KVAH Readings		TOD KWH		TOD KVAH		KVARH				Maximum		TOD		CMD		Bills
	Import	Export	Import	Export	Import	Export	Import	Export	IMPORT		EXPORT								
	KWH Readings	KWH Readings	KVAH Readings	KVAH Readings	KWH Readings	KWH Readings	KVAH Readings	KVAH Readings	Lag	Lead	Lag	Lead	IMPORT	EXPORT	IMPORT	EXPORT	IMPORT	EXPORT	
01.01.21	2046.6	917.8	2261.0	917.9	498.7	0	514.5	0	739.6	523.8	0.1	12.1	0.1	0	0.28	0	11.57	12.78	47
01.12.20	2030.2	894.6	2243.1	894.6	494.4	0	510.1	0	733.7	515	0.1	11.7	0.15	0	0.29	0	11.47	12.5	46
Difference	16.4	23.2	17.9	23.3	4.3	0	4.4	0	5.9	8.8	0	0.4							
MF	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800			
Consumption	13120	18560	14320	18640	3440	0	3520	0	4720	7040	0	320	80	0	224	0			
	P.F	0.92																	

Deputy Executive Engineer
Operation :: APSPDCL Puttur

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Name: M/s Jaya Educational Society,
Section : Narayanavanam

HT SC NO. TPT 401

Month	KWH Readings		KVAH Readings		TOD KWH		TOD KVAH		KVARH				Maximum		TOD		CMD		Bills
	Import	Export	Import	Export	Import	Export	Import	Export	IMPORT		EXPORT								
	KWH Readings	KWH Readings	KVAH Readings	KVAH Readings	KWH Readings	KWH Readings	KVAH Readings	KVAH Readings	Lag	Lead	Lag	Lead	IMPORT	EXPORT	IMPORT	EXPORT	IMPORT	EXPORT	
01.02.21	2075	941.4	2292.5	941.4	505.4	0	521.5	0	750.3	535	0.1	12.4	0.21	0	0.28	0	11.78	13.06	48
01.01.21	2046.6	917.8	2261.0	917.9	498.7	0	514.5	0	739.6	524	0.1	12.1	0.1	0	0.28	0	11.57	12.78	47
Difference	28.4	23.6	31.5	23.5	6.7	0	7	0	10.7	11.1	0	0.3							
MF	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800			
Consumption	22720	18880	25200	18800	5360	0	5600	0	8560	8880	0	240	168	0	224	0			
	P.F	0.90																	

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