



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

ADB Road, Surampalem, Kakinada District, A.P. - 533 437
(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada.)
(Recognized by UGC Under Section 2(f) and 12 (B) of UGC act, 1956)
Ph : 08852 - 252233, 34. Website : www.pragati.ac.in
(Sponsored by M/s. Gayatri Educational Society)

D.No. 2-46-21, Near D-Mart, Kakatiya Nagar, Kakinada. Ph : 7330826667, 7337458886


7.1.2: The Institution has facilities for alternate sources of energy and energy conservation measures

The Pragati Engineering College taken a proactive stance towards energy sustainability through the provision of facilities for alternate energy sources and the implementation of energy conservation measures. To minimize environmental impact and reduce dependence on conventional energy, the campus integrated solar panels and other renewable energy systems. These eco-friendly initiatives contributed to a greener environment while also demonstrating the institution's commitment to responsible resource utilization. In addition to embracing alternative energy sources, the institution implemented energy-efficient measures across its premises. Regular maintenance and monitoring of systems ensure their optimal performance, further enhancing energy efficiency. By fostering a culture of energy consciousness and integrating sustainable practices into its infrastructure, the institution not only contributed to environmental preservation but also educates students about the importance of responsible energy consumption.

Wheeling to the Grid





 GPS Map Camera



Surampalem, Andhra Pradesh, India

1-378, ADB Road, Surampalem Near Kakinada, Surampalem, Andhra Pradesh 533437, India

Lat 17.08313°

Long 82.054114°

10/08/23 11:42 AM GMT +05:30

NEW & RENEWABLE ENERGY DEVELOPMENT CORPORATION OF A.P. Ltd



(A State Government Company – ISO 9001:2015 Certified)
Regd. Office : # 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road,
Tadepalli, Guntur District, Andhra Pradesh – 522 501, India.
E-mail, info@nredcap.in Website: www.nredcap.in

NREDCAP/OSD/GCRT/Edu.Insti/61A/2018

Speedpost 1004

Dt.19.02.2018

To
M/s.Gayatri Educational Society,
ADB Road, Surampalem, Gandepalli (M), 533294
E.G. Dist Mob:9849370428.

Sir,

Sub: Installation of 200 KWp Grid connected SPV Power Plants at M/s.Gayatri Educational Society, ADB Road, Surampalem, Gandepalli (M), E.G. Dist-533001. A.P – Reg.

Ref: 1) MNRE in principal sanction letter no. 03/73/2015-16/GCRT Dt.1.12.2015
2) Your proposal dated: 11.12.2017.

& &

We invite your attention to your proposal submitted vide reference 2nd cited for installation of 200 KWp grid connected Solar roof top system at M/s.Gayatri Educational Society, ADB Road, Surampalem, Gandepalli (M), E.G. Dist-533001.. Taking into consideration the in principle sanction communicated by MNRE vide reference 1st cited, in principle sanction is hereby accorded for taking up installation of 200 KWp grid onnected solar roof top system as per the terms and conditions detailed below:

1. The system shall installed as per minimum technical requirements / standards for SPV systems / plants given in sanction no.30/11/2012-13/NSM dt.26.6.2014 in vogue and amended time to time.(Refer to MNRE website: www.mnre.gov.in)
2. The installation shall be taken up through NREDCAP empanelled suppliers only as per the finalised rate contract rates.
3. Only indigenously manufactured PV modules will be used in the project.
4. The consent letter from respective DISCOM indicating their willingness / consent for installation of grid connected solar roof top system shall be submitted.
5. The eligibility of Central Financial Assistance (CFA) shall be as per the guidelines of Ministry of New and Renewable Energy (MNRE) in vogue and amended time to time.
6. The settlement of the project capacity installed would be done on the basis of prevailing MNRE benchmark cost or the tender cost, whichever is lower. For capacity installed after 31.03.2018 the CFA will be calculated on the basis of new benchmark cost issued by MNRE for the year 2018-19, if any, or the tender cost, whichever is lower.
7. The installation of the system shall be completed and commissioned on or before 31.05.2018.

ce - President / kind info

8. Proper metering arrangement may be incorporated so that the generation data from the proposed SPV power plants will be available.
9. The release of CFA is subject to sanction and release of funds by MNRE and submission of all relevant documents.
10. After completion and commissioning of the project the following documents shall be submitted in duplicate for considering release of CFA.

1. Copy of work order
2. Copy of Invoice
3. Joint inspection report in original.
4. Project completion report in original.
5. Photographs (with beneficiary / organization)
6. Synchronization Letter.
7. Statement of Expenditure (SOE) duly certified by Chartered Accountant in original.
8. One month electricity bill (after commissioning)
9. Authorization letter for disbursement of subsidy to the System Integrator.

Thanking you,

Sd/-
VC & MANAGING DIRECTOR

Copy to the District Manager, NREDCAP, Kakinada, EG dist. for information and necessary action

Copy to DGM (F&A), NREDCAP, for information.

// forwarded :: by order//


Officer on Special Duty

EASTERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED
OPERATION CIRCLE : : RAJAHMUNDRY
H.T. METER TEST CARD WITH RESULTS

Sc.No. : R37-815 Date of Testing : 24/3/18
 Name of the Service : M/s Gayatri Educational Society Cat: II
 Location : Swarnapalem (W). CMD : 250 kVA
 Purpose : Recording of final readings in view of providing additional metering
 Section : Grandapalli Sub Division : Jaggampeta Division : Jaggampeta - R22

Meter	Metering Cubicle	Old	New
Make : Secure, 3ph4wire	GSE, one side cable	MF 4	/
Type : ERMOS	3 element	CT 4	
CRT : -/SA, C/L 0.55	20/SA, C/L 0.25	PT 1	
PRT : 11 kv/110v	11 kv/110v, 0.2	Dial 1	
SI.No. : APE41753, 2009	GSMC/16-17/1605, 2016-17	Total 4	


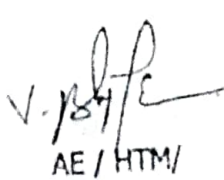

Values at TTB	VRY 102	VYB 103	VBR 102	L1 $\frac{1.28}{1.28}$	L2 $\frac{1.45}{1.45}$	L3 $\frac{1.36}{1.36}$
	VRN 57	VYN 58	VBN 57	Phase sequence		Forward

% Error	Consumer Load	Phantom KIT Load				Remarks
		UPF FL	UPF 1/10 FL	0.5 PF FL	0.86 PF FL	
Units	-4-					The meter was tested on consumer load and the test results found within the permissible limits during test period.
KWH	0.24 %					
KVARHG	0.88 %					
KVAH	(-) 0.13 %					

Readings before test at Hrs.	Units	Readings After test at Hrs.	Seals Provided
543857	KWH	/	Inspection
133887	KVARH (G)		Secondary
310538	KVARH (D)		TTB
580273	KVAH		MD Knob
38.8	MD		Box
4604.1	Cum. MD		AB
121	N		Impression

TOD Readings : kwh 27764 kvah 30351 kVA 127

Remarks : 1) The MF is "4" (Four) for units & MD.
 After recording final readings the meter was removed from service and handed over to ADE/HTM.

Tester ADE / HTM / ADE / HTM /

RSY-315
 M/s Gayatri Educational Society
 Surampalem (V) Gandapalle
 DATE: 24/3/18
 II
 250kVA
 DATE OF LAST TESTING:

Testing and Commissioning of Solar Grid interactive rooftop
 and SPV 200kwp to M/s Gayatri Educational Society, HT RSY-315, 250kVA
 at IIIA at Surampalem (V)
 MEMO NO: (E/RSY) DE-T/ADE/conn/F.200/D no: 481/15 dt 24-3-18
 Gandapalle: SUBDIVISION Jaggaampala DIVISION Jaggaampala

METER PARTICULARS		MC PARTICULARS	MF CALCULATION		
MAIN	CHECK		MAIN	CHECK	
Secura	Secura	USE, one side cable	CCTR	20/SA	20/SA
3 phase	3 phase	3 element			
E3max24	E3max24	20/SA, CI: 0.25	CT MF	$\frac{20 \times 5}{5 \times 10} = 2$	$\frac{20 \times 5}{5 \times 10} = 2$
DLMS	DLMS	11kV/110V, 0.2	PT MF	$\frac{11kV \times 110}{11kV \times 110} = 1$	$\frac{11kV \times 110}{11kV \times 110} = 1$
10/SA, CI: 0.25	10/SA, CI: 0.25	W/mc/16-17/1605			
11kV/110V	11kV/110V	Y/m: 2016-17	DIAL MF	1	1
X 0450013	X 0450020				
Y/m Dec 2017	Y/m Dec 2017		TOTAL MF	2x1x1	2x1x1

PHASE VOLTAGES

VRY	95	VYB	95	VBR	95	<u>2</u>	<u>2</u>
VBN	55	VYN	55	VBN	55		

CURRENTS (Amps/meter)

R-PH	Y-PH	B-PH

Panther Results

Main Meter

EXPORT	UPF	1/10th	0.86 PF	0.5 PF	EXPORT	UPF	1/10th	0.86 PF	0.5 PF
KWH	0.19%	0.15%		0.12%	KWH	0.14%	0.15%	0.15%	0.11%
KVARH	0.12%	0.09%	0.09%	0.08%	KVARH	0.06%	0.02%	0.10%	0.07%
KVAH	0.05%	0.19%	0.18%	0.19%	KVAH	0.14%	0.15%	0.04%	0.10%

CHECK METER

EXPORT	UPF	1/10th	0.86 PF	0.5 PF	EXPORT	UPF	1/10th	0.86 PF	0.5 PF
KWH	0.19%	0.18%	0.17%	0.17%	KWH	0.16%	0.18%	0.17%	0.13%
KVARH	0.11%	0.07%	0.11%	0.10%	KVARH	0.06%	0.05%	0.12%	0.16%
KVAH	0.19%	0.10%	0.15%	0.03%	KVAH	0.16%	0.18%	0.01%	0.12%

Initial Readings

MAIN METER	IMPORT	EXPORT
KWH	42	40
KVARH	25	0
KVARH	0	25
KVAH	52	51
MD	0	0
QMD	72.2	58.2
IC	8	-
TOD KWH	0	0
TOD KVAR	0	0
TOD KVA	0	0