



# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

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

Aditya College of Engineering committed to utilize solar power plants for providing alternative source of energy. In the month of May 2018 Solar Plant was installed with the capacity of 300 kW.

The institute met **56%** of its total requirement of power consumption by the institute from renewable sources.

S.No.	Power facilities for the Institution	UNITS	UNITS	Percentage
1	Average power consumption by the institution	<b>10,96,394</b>	-	100
2	Power generated from renewable Energy sources ( <b>Solar plant</b> )	-	<b>6,13,980</b>	<b>56</b>
3	Power consumed from Grid ( <b>APEPDCL</b> )	-	<b>4,82,414</b>	<b>44</b>
Total annual power requirement by the institution		<b>10,96,394</b>	<b>10,96,394</b>	100

Solar power plant Details	
Total Capacity of the Plant	300KWp
Roof used for the plant	20,000 Sq-Ft or 2,000 Sq-Mtr
Average Sun Irradiance	4.89 KWh/Sq-Mtr/Day
Expected Generation/Day	1000 to 1200 Kwh

**52%** of the total lighting requirement of the institution met through LED bulbs to reduce the power consumption.

Department/area	Number of LED bulbs	Power consumed (watts)	Power in (KW)	Working time (hours per Day)	Energy Usage per month (kWh)
Ramanujan Bhavan	243	9	0.009	6	320.76
Newton Bhavan	20	9	0.009	7	26.4
James Watt Bhavan	36	9	0.009	6	47.52
Mechanical shed	15	12	0.012	6	19.8
Other/Outside area	10	9	0.009	7	13.2
<b>Total Energy usage per month (kWh)</b>					<b>427.68</b>

Alternative energy conservation by using the sensors for power saving provided in two rooms with 20 lights and 20 fans

Other energy saving equipments also procured by the institute like power saving ACs, Geysers, automatic water system etc.,

Solar energy	Biogas plant	Wheeling to the Grid	Sensor-based energy conservation	Use of LED bulbs/ power efficient equipment
Yes	Yes	Yes	Yes	Yes

S.No	Proof of Documents
1	Solar energy
2	Wheeling to the Grid
3	Sensor-based energy conservation
4	Efficient Use of LED bulbs
5	Other power efficient equipment



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**The Institution has facilities for alternate sources of energy and energy**

## **Conservation measures**

### **Renewable Energy Source: Solar Power Plant**

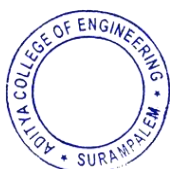
#### **Energy saving measures:**

- Energy management features are activated on computers, laser printers, etc., turn off lights when not used/required, use daylight.
- Use of LEDs, CFLs.
- Use fans when they are needed
- Unplug appliances like printers, faxes, chargers and electronic appliances, when they are not in use.
- Awareness among students and staff on energy conservation through display boards at appropriate places.

The institute met **56%** of its total requirement of power consumption by the Institute from renewable sources.

- In the month of May 2018 Solar Plant was installed
- Solar plant capacity **300 kW**
- The installation cost of total plant is **90,00,000 /-**
- Energy produced from the plant per year : **839.1 MWh/year**

General Details	
Total Capacity of the Plant	300KWp
Roof used for the plant	20,000 Sq-Ft or 2,000 Sq-Mtr
Average Sun Irradiance	4.89 KWh/Sq-Mtr/Day
Expected Generation/Day	1000 to 1200 Kwh
Solar Panels Details	
Total no. of panels	612 No's
Capacity of each panel	325 Wp
Make	Vikram Solar
Technology & no. of cells	Polycrystalline, 72 cell
Type of Busbar system	4 Busbar series type
Working voltage	1000 VDC
Type of connection of panels	In Series
Panel Efficiency	18.5%
Working Temperature Range	-40 <sup>0</sup> c to 85 <sup>0</sup> c
Panel Dimensions	1956x992x35.2 mm
Weight of each panel	22 Kgs
Inverter Details	
Total no. of Inverters	4 No's
Capacity of each Inverter	50 KVA
Type of Inverter	Solar ON-GRID
Make	ABB
Technology used	Maximum Power Point Tracking (MPPT)
No. of MPPTs/Inverter	3 No's
Weight of Inverter	125 Kgs



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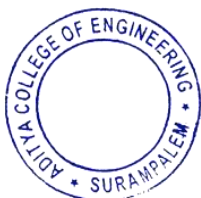
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## Geotagged photos for Solar panels

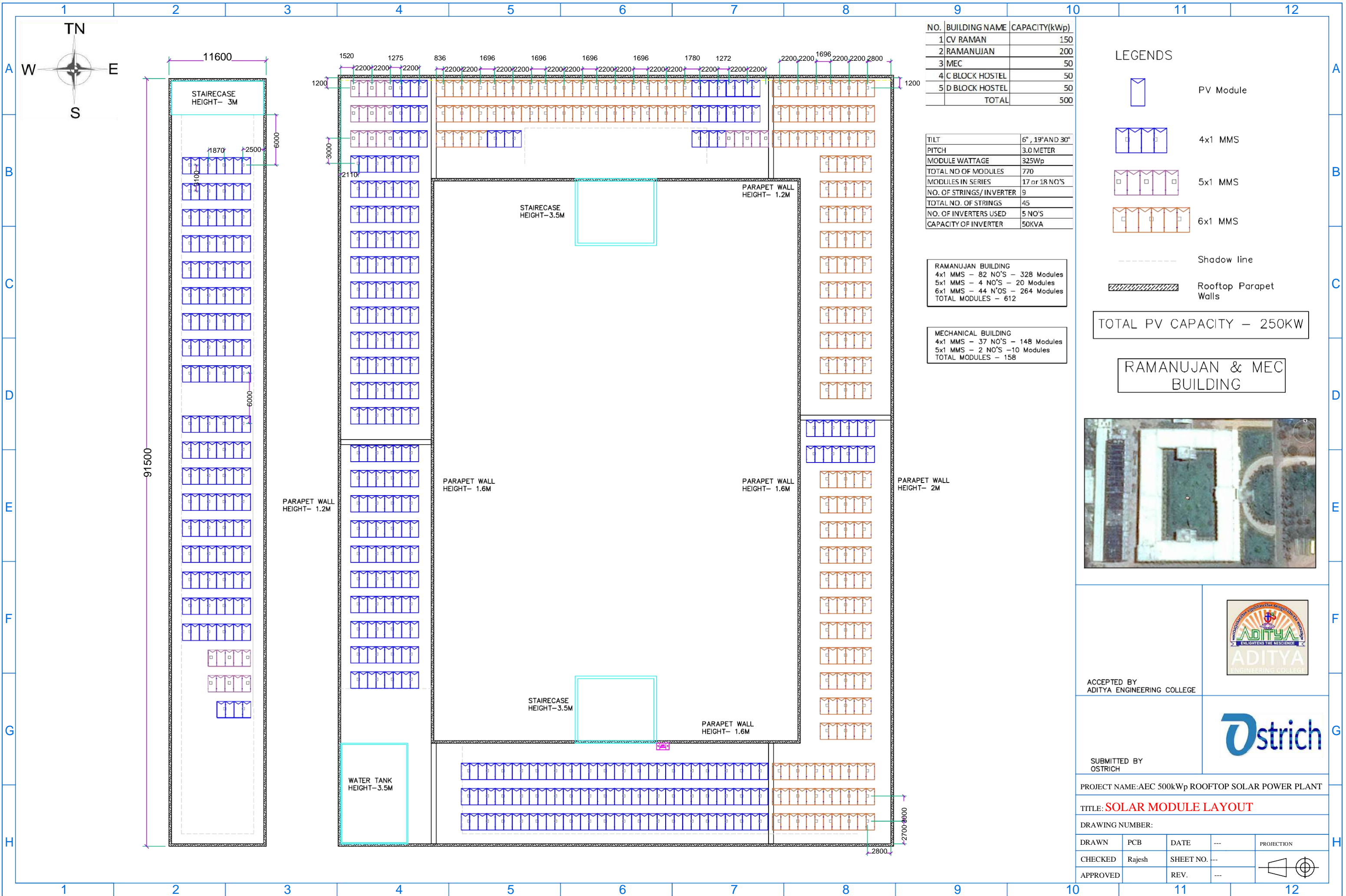


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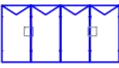


NO.	BUILDING NAME	CAPACITY(kWp)
1	CV RAMAN	150
2	RAMANUJAN	200
3	MEC	50
4	C BLOCK HOSTEL	50
5	D BLOCK HOSTEL	50
TOTAL		500

TILT	6°, 19° AND 30°
PITCH	3.0 METER
MODULE WATTAGE	325Wp
TOTAL NO OF MODULES	770
MODULES IN SERIES	17 or 18 NO'S
NO. OF STRINGS/ INVERTER	9
TOTAL NO. OF STRINGS	45
NO. OF INVERTERS USED	5 NO'S
CAPACITY OF INVERTER	50KVA


RAMANUJAN BUILDING  
4x1 MMS - 82 NO'S - 328 Modules  
5x1 MMS - 4 NO'S - 20 Modules  
6x1 MMS - 44 NO'S - 264 Modules  
TOTAL MODULES - 612

MECHANICAL BUILDING  
4x1 MMS - 37 NO'S - 148 Modules  
5x1 MMS - 2 NO'S - 10 Modules  
TOTAL MODULES - 158

LEGENDS

-  PV Module
-  4x1 MMS
-  5x1 MMS
-  6x1 MMS

Shadow line

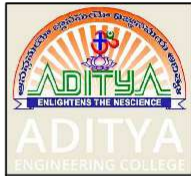
 Rooftop Parapet Walls

TOTAL PV CAPACITY - 250KW

RAMANUJAN & MEC BUILDING



ACCEPTED BY  
ADITYA ENGINEERING COLLEGE

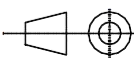


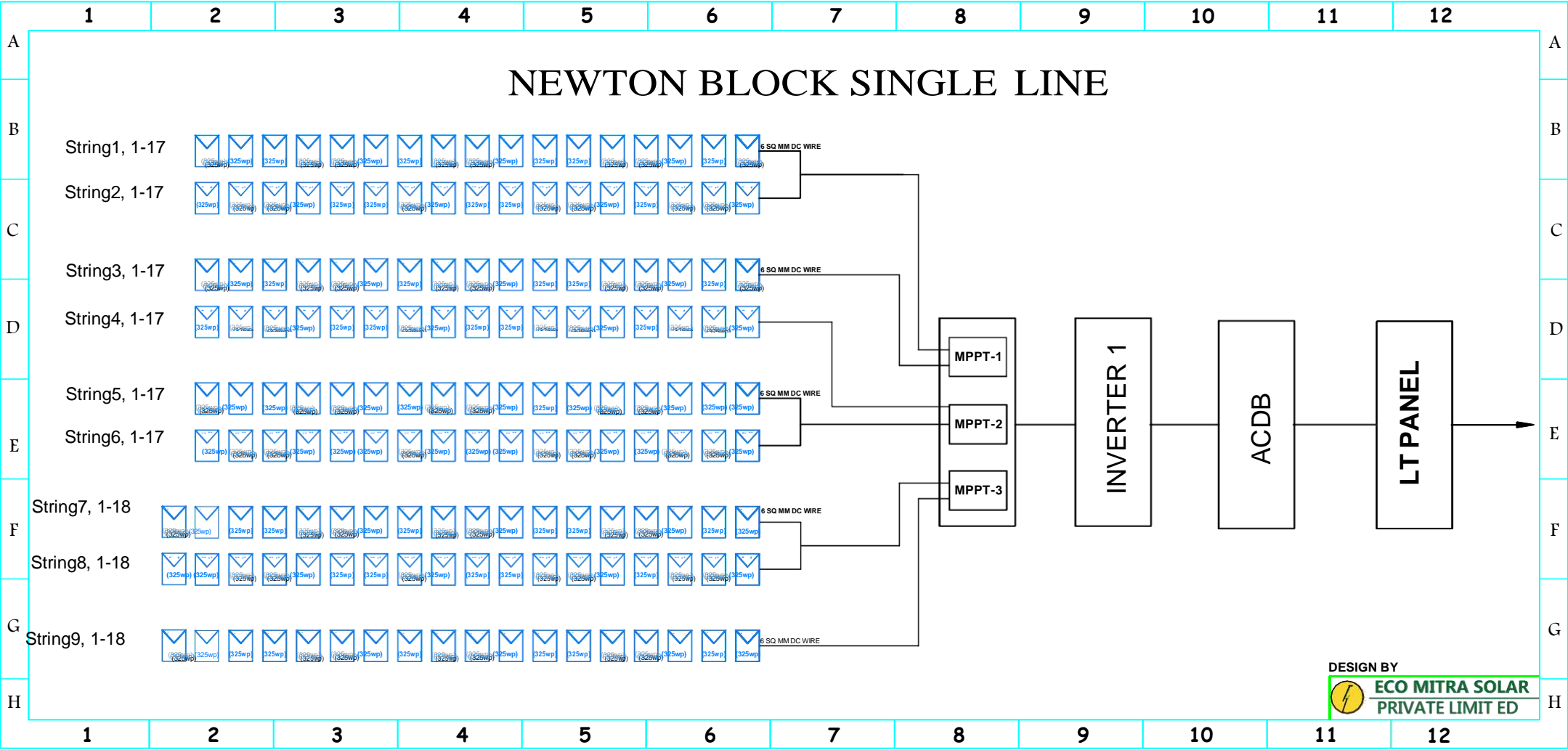
SUBMITTED BY  
OSTRICH

PROJECT NAME: AEC 500kWp ROOFTOP SOLAR POWER PLANT

TITLE: **SOLAR MODULE LAYOUT**

DRAWING NUMBER:

DRAWN	PCB	DATE	---	PROJECTION
CHECKED	Rajesh	SHEET NO.	---	
APPROVED		REV.	---	







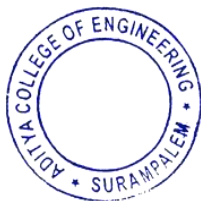
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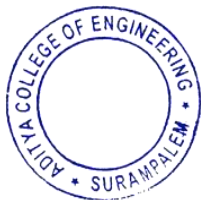
## Students Participated while installing the solar panels



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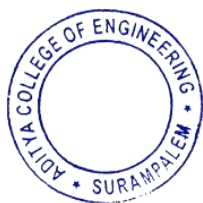
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## Power bill comparative statement after Installation of Solar panels

S.No	Month	Total Consumption in KWH	From Grid in KWH	From Solar in KWH	Power Bill in Rs
1	Jan-18	77708	77708	Without Solar	7,06,226/-
2	Feb-18	96262	96262		8,80,293/-
3	Mar-18	134634	134634		14,06,761/-
4	Apr-18	106914	106914		8,97,158/-
5	May-18	72501	72501		8,71,329/-
6	Jun-18	107287	23970	83317	3,30,494/-
7	Jul-18	128005	60567	67438	6,39,340/-
8	Aug-18	149321	97266	52055	9,27,438/-
9	Sep-18	138748	73629	65119	8,37,606/-
10	Oct-18	136761	65751	71010	8,04,625/-
11	Nov-18	116857	54797	62060	5,63,805/-
12	Dec-18	103990	51210	52780	5,08,654/-
13	Jan-19	99036	33341	65695	3,68,318/-
14	Feb-19	116389	49424	66965	5,24,668/-



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							Customer Support CALL US : 1912		
HT DIGITAL BILL FOR THE MONTH OF November 2019							GST NO : 37AAACE9876B1ZH		
Service Details		Consumer Details			BILL DATE 05-12-2019		DUE DATE FOR PAYMENT 19-12-2019		
Contracted MD(KVA/HP)	300 (KVA/HP)	SC. No. RJY856							
Specified Voltage(KVA)	11 KV	M/S SAROJINI EDUCATIONAL SOCIETY,							
Actual Voltage	11 KV	SURAMPALEM(V)							
Category	IIA	PEDDAPURAM TOWN							
Feeder Type	COMMON	E G DT							
Total Monthly Consumption Details									
Particulars	Date	KWH	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY	PF	LF
Reading as on	01/12/2019	436467	438214.5	80.600	-	-	-	-	-
Reading as on	01/11/2019	411359.5	413028	-	-	-	-	-	-
Difference	-	25107.5	25186.5	-	-	-	-	-	-
Multiplying Factor	-	3	3	3.000	-	-	-	-	-
Total Consumption	-	75322	75559	241.800	20505	0.00	-	1	26
Monthly Min Consumption	-	-	6045	240.000	-	-	-	-	-
Main Consumption	-	75559	-	-	-	-	-	-	-
L & F	-	-	-	-	-	-	-	-	0.00
Segregated Colony	-				-	-	-	-	-
Open Access Consumption Details									
Supplier Name		KWH Share			KVA Share		% Wheeling		
Solar Units		0			17508.000		0		
Billing Summary									
	Particulars	Bill Issue Date	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY		
	Billed Units	05-12-2019	58052	241.800	20505	0.00	0		
BILL DETAILS									
Particulars			Units		Rate Per Unit		Amount(Rs.)		
Demand Charges(Normal)			241		475		114855		
Demand Charges(Penal)(80.6%)			0		950		0		
Energy Charges(All Units)			58052		7.65		444097.8		
Energy Excess Charges							0		
Electricity Duty Charges			75560		0.06		4533.6		
Colony Charges			0		0.00		0		
L&F Charges							0.00		
Energy Charges Including Fuel Cost Adjustment							0.00		
Fuel Surcharge Adjustment							0.00		



ToD Charges			20505
ToD Incentive (-)			0
<b>Sub Total</b>			<b>583991.4</b>
Customer Charges			1406
Wheeling Charges			0
LPF Charges			0
RKVAH Surcharge Hydel			0
RKVAH Surcharge Wind			0
Open Access CSS			0
ACD Surcharge			0
Late Payment Charges			0
Interest on ED			0
Penal Interest			0
Transformer Hire Charges			0
Differential Voltage Surcharges			0
Load Factor incentive (-)			0
Short MD Shortfall			0
<b>Total For The Month</b>			<b>585397.4</b>
25% Rebate Application			0
Ferro Incentive(-)			0
Pooled Cost Adj(-)			0
Net ICD Amt(ICD-TDS)(0-0)(-)			0
Other Credit Adj			0
Loss (or) Gain			-0.4
<b>NET BILL</b>			<b>585397</b>
(Previous Years)Arrears before 31- Mar-2019			0.00
(Current Years)Arrears after 01-Apr-2019			-0.12
<b>Net Payable Rs.</b>			<b>585397</b>
This is a system generated bill only for information , please refer to the bill issued by SAO of the circle only.		(Rupees Five Lakhs Eighty Five Thousand Three Hundred and Ninety Seven Only)	

								Customer Support CALL US : 1912	
HT DIGITAL BILL FOR THE MONTH OF December 2019							GST NO : 37AAACE9876B1ZH		
Service Details			Consumer Details			BILL DATE 05-01-2020		DUE DATE FOR PAYMENT 19-01-2020	
Contracted MD(KVA/HP)	300 (KVA/HP)	SC. No. RJY856							
Specified Voltage(KVA)	11 KV	M/S SAROJINI EDUCATIONAL SOCIETY,							
Actual Voltage	11 KV	SURAMPALEM(V)							
Category	IIA	PEDDAPURAM TOWN							
Feeder Type	COMMON	E G DT							
Total Monthly Consumption Details									
Particulars	Date	KWH	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY	PF	LF
Reading as on	01/01/2020	462065	463959	77.260	-	-	-	-	-
Reading as on	01/12/2019	436467	438214.5	-	-	-	-	-	-
Difference	-	25598	25744.5	-	-	-	-	-	-
Multiplying Factor	-	3	3	3.000	-	-	-	-	-
Total Consumption	-	76794	77233	231.780	20185.47	0.00	-	0.99	26
Monthly Min Consumption	-	-	6000	240.000	-	-	-	-	-
Main Consumption	-	77233	-	-	-	-	-	-	-
L & F	-	-	-	-	-	-	-	-	0.00
Segregated Colony	-				-	-	-	-	-
Open Access Consumption Details									
Supplier Name			KWH Share		KVA Share		% Wheeling		
Solar Units			0		18086.000		0		
Billing Summary									
	Particulars	Bill Issue Date	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY		
	Billed Units	05-01-2020	59148	240.000	20185.47	0.00	0		
BILL DETAILS									
Particulars			Units		Rate Per Unit		Amount(Rs.)		
Demand Charges(Normal)			240		475		114000		
Demand Charges(Penal)(80%)			0		950		0		
Energy Charges(All Units)			59148		7.65		452482.2		
Energy Excess Charges							0		
Electricity Duty Charges			77234		0.06		4634.04		
Colony Charges			0		0.00		0		
L&F Charges							0.00		
Energy Charges Including Fuel Cost Adjustment							0.00		
Fuel Surcharge Adjustment							0.00		

ToD Charges			20185
ToD Incentive (-)			0
<b>Sub Total</b>			<b>591301.24</b>
Customer Charges			1406
Wheeling Charges			0
LPF Charges			0
RKVAH Surcharge Hydel			0
RKVAH Surcharge Wind			0
Open Access CSS			0
ACD Surcharge			0
Late Payment Charges			0
Interest on ED			0
Penal Interest			0
Transformer Hire Charges			0
Differential Voltage Surcharges			0
Load Factor incentive (-)			0
Short MD Shortfall			0
<b>Total For The Month</b>			<b>592707.24</b>
25% Rebate Application			0
Ferro Incentive(-)			0
Pooled Cost Adj(-)			0
Net ICD Amt(ICD-TDS)(0-0)(-)			0
Other Credit Adj			0
Loss (or) Gain			-0.24
<b>NET BILL</b>			<b>592707</b>
(Previous Years)Arrears before 31- Mar-2019			0.00
(Current Years)Arrears after 01-Apr-2019			-0.12
<b>Net Payable Rs.</b>			<b>592707</b>
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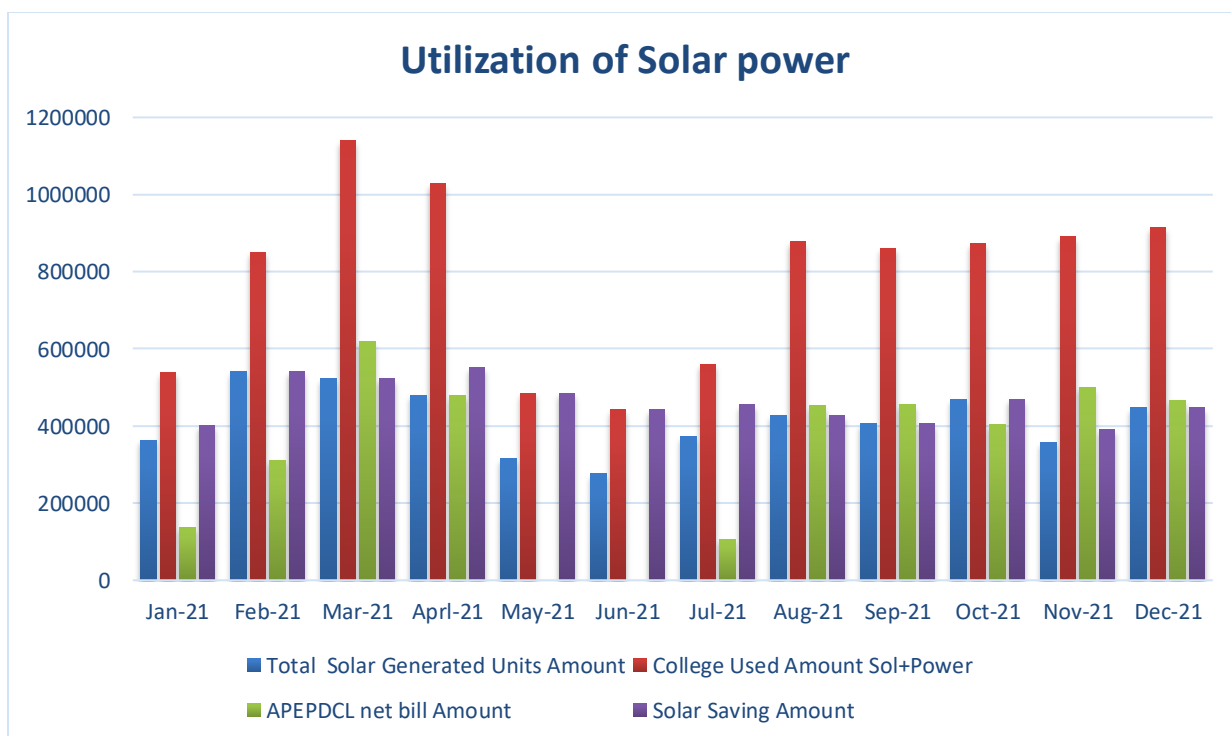
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## SOLAR AND POWER CONSUMED UNITS AND AMOUNT DETAILS 2021

S.No.	Month	Total Solar Generated Units Amount	College Used Amount Sol+ Power	APEPDCL net bill Amount	Solar Saving Amount
1	Jan-21	363640.5	538565.5	136250	402315.5
2	Feb-21	540747.9	850876.9	310129	540747.9
3	Mar-21	522418.5	1140235.5	617817	522418.5
4	Aprl-21	480002.45	1028443.45	477957	550486.45
5	May-21	316291.3	484942.3	0	484942
6	Jun-21	275831.95	442903.95	0	442904
7	Jul-21	371569.6	560117.6	104603	455515
8	Aug-21	426465.75	878769.75	452304	426465.75
9	Sep-21	405366.5	860857.5	455491	405366.5
10	Oct-21	469396.05	872447.05	403051	469396.05
11	Nov-21	356710.95	890790.95	499810	390981
12	Dec-21	447453.8	914384.8	466931	447454
					<b>5538992.65</b>



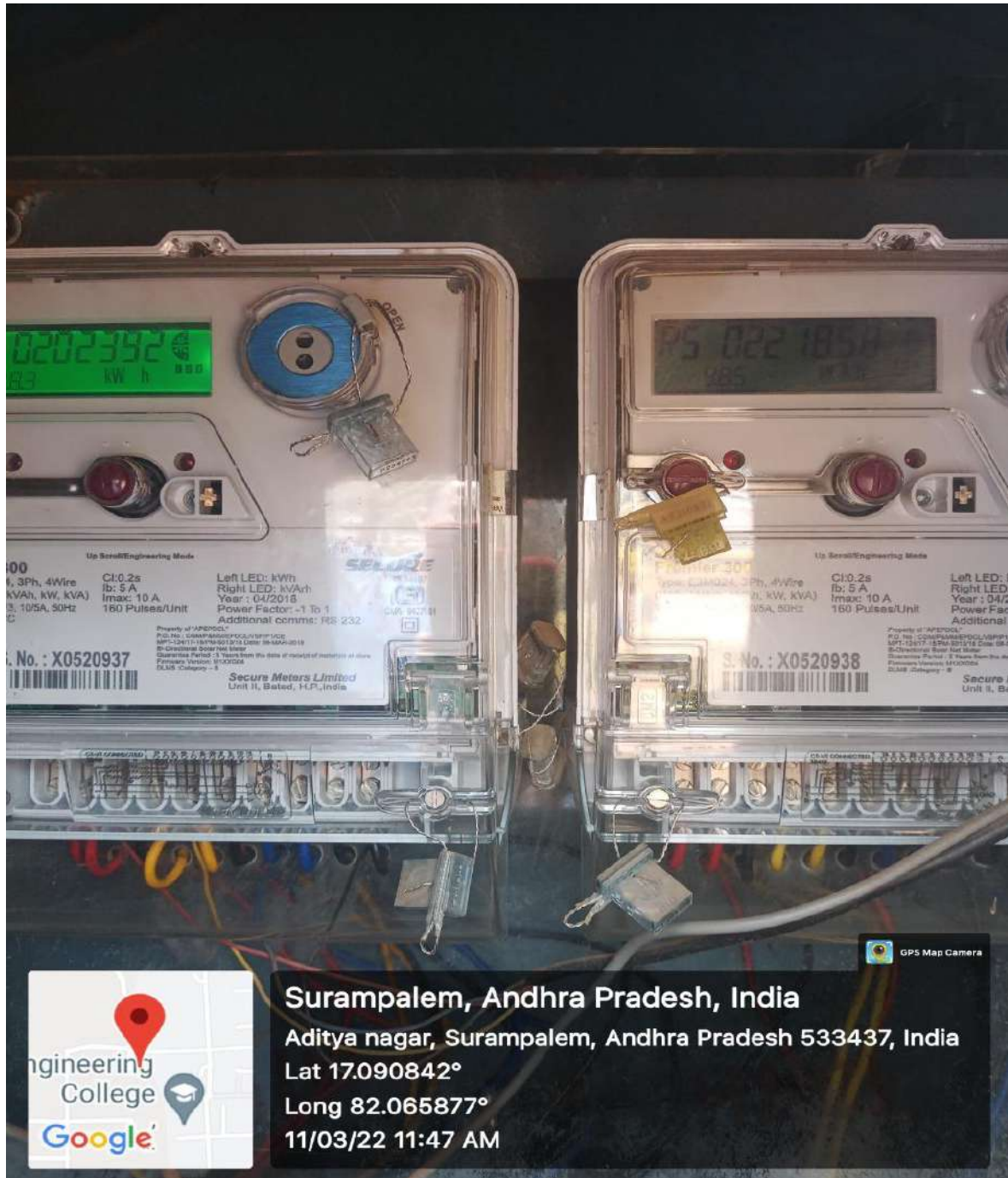


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## Wheeling to the Grid (Net Metre)





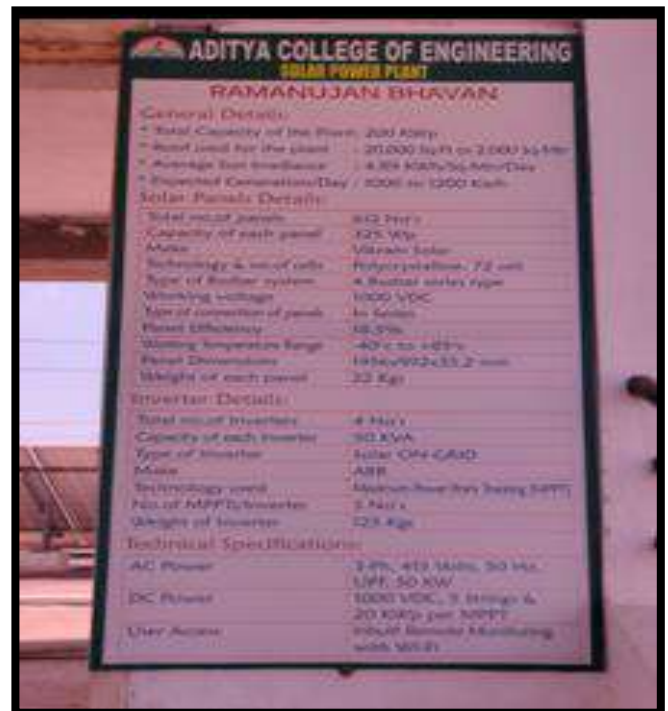


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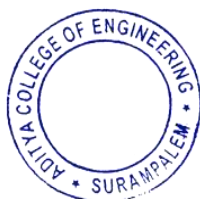
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## Wheeling to the Grid



## Specifications of Solar Energy



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ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

సం 61  
ఆర్ 5/1/19  
వం 9-102

Sarojini Education Society  
Swarupalem

BU 764642  
KOMMANA SWARARA  
STAMP VENDER  
Licence No. 04-07-15-2011  
R.L. No. 04-07-15-2017  
PEDDAPURAM  
Cell : 99473 31515

#### FORM OF HT AGREEMENT

(To be executed on non-judicial stamp paper of appropriate value).

Agreement executed on this JANUARY, 5th day of 2019 between Mr. N. SATISH REDDY S/o N. SESA REDDY which means their/ his/ its heirs, successors as ONE PART herein after called as "HT consumer" and the Eastern power Distribution Company of AP Limited, a Company incorporated under the Provisions of Company Act 1956 consequent to the AP Electricity Reforms Act, 1998 (which means its authorized representatives, assigns, executors and its successors) as OTHERS PART herein after called the "Company".

#### 2. Supply of Power:-

I/We the above mentioned have request the Company to supply electricity at specified voltage of supply as per tariffs for the purpose of M/s SAROJINI EDUCATIONAL SOCIETY and the Company agreed to afford such supply on the terms and conditions notified by them from time to time and as per the Provisions of Electricity Act 2003 and as per the conditions mentioned below

N. Satish Reddy  
President  
Sarojini Educational Society  
WAKHEDA



### 3. Load/Maximum Demand:-

I/We agree to take from the Company Electric Power for a maximum load not exceeding 300 KVA which shall be taken to be my/our contracted demand for our exclusive use for the purpose above mentioned at our M/s SAROJINI EDUCATIONAL SOCIETY situated at SURAMPALEM. Our contracted load shall be 300 KVA and connected load 350 HP/KW. I/We shall not Effect any change in the contracted demand or connected load Without permission of the Company.

### 4. Re-sale of Electric Power:-

I/We undertake that, I/We shall not sell electrical energy obtained under this agreement With out sanction in Writing of the Company.

### 5. Obligation to comply with requirement of Acts, and Terms & Conditions of Supply:-

I/We further undertake to company with all the requirements of the Electricity Act 2003, The rules and regulations framed there under, provisions of the tariffs and miscellaneous and General Change and the General Terms & Conditions of Supply prescribed by the company from time to time and agree not to dispute the same.

### 6. Date of Coming into force of the agreement :-

I/we shall begin/take electrical energy from the company under the conditions of the contract within three months, from the date of issue of intimation in writing to me / us by the Authorized officer of the Company that supply of Electrical Energy is available. The provisions of this agreement shall be deemed to come into force from the date of commencement of supply of energy or the date of expiry of three months notice above referred to whichever if earlier.

### 7. Period of agreement:-

I/we undertake to avail supply a minimum period of one year from the date of this agreement coming into force.

### 8. Termination of the agreement:-

I/we shall be at liberty to terminate the contract by giving in writing in writing three months notice expressing such intention at any time after the period of one year. I/we agree that the Company may terminate this agreement at any time giving one week's notice if .I/we violate the terms of this agreement or the General Terms & conditions of supply notified by the Company from time to time or the provisions of any law touching this agreement including the Electricity Act 2003, the rules and Regulations framed there under. This

*N. S. S. Reddy*  
President  
Sarojini Educational Society  
K.A.K. VEDA

*N. S. S. Reddy*  
President  
Sarojini Educational Society  
K.A.K. VEDA

*N. S. S. Reddy*  
President  
Sarojini Educational Society  
K.A.K. VEDA

*N. S. S. Reddy*  
President  
Sarojini Educational Society  
K.A.K. VEDA



agreement shall remain in force until it is terminated as above the period or computing the period of 5(five) years or 2(two)years referred to above the period or periods for which the annual guarantee has or have been waived or reduced shall be excluded.

**9. Obligation of consumer to pay all charges levied by the Company:-**

From the date of this agreement coming into force I/we shall be bound by and shall pay the Company maximum demand charges, energy charges, surcharges, meter rents and other charges, if any, in accordance with the tariffs fixed by the Andhra Pradesh Electricity Regulatory Commission and Terms & Conditions of supply prescribed by the Company from time to time for the particular class of consumers to which I/we belong.

**10. Company's right to vary terms of Agreement:-**

I/we agree that the Company shall have the unilateral right to vary, from time to time, tariffs, scale of general and miscellaneous charges and the terms and conditions of supply under this agreement by special or general proceeding.

**11. Monthly minimum charges:-**

I/we shall pay minimum charges every month as prescribed in tariff, and terms and conditions of supply even if no electricity is consumed for any reason whatsoever and also if the charges for electricity actually consumed are less than the minimum charges. The minimum charges shall also be payable by me /us even if electricity is not consumed because supply has been disconnected by the company because of non payment of electricity charges, pilferage or other malpractices or for any other valid reason.

**12. Special Annual Minimum Guarantee:-**

In consideration of the Company making arrangements for supplying electrical energy to me/us, I/we agree with effect from the date of commencement of this agreement for the period of..... years to guarantee a minimum payment Rs..... (Rupees only) every year towards demand and energy charges only exclusive of payments towards surcharges, meter rents or other payment by whatever name they may be called. If the amounts actually paid towards demand energy charges during any year fall short of the guaranteed minimum the amount of deficit shall be deemed to be an arrear of electricity charges and recovered accordingly.

*N. Sankish Reddy*  
President  
Sarojini Educational Society  
V.K.V.EDA

President  
Sarojini Educational Society  
V.K.V.EDA

President  
Sarojini Educational Society  
V.K.V.EDA

President  
Sarojini Educational Society  
V.K.V.EDA

13. I/we here by agree that if I/we am/are found indulging in theft every malpractice in respect of use of electrical energy I/we shall pay additional charges may be levied by the Company. I/we also agree that in such an event the company shall in addition to levy of the additional charges have right to disconnect supply of electricity to my /our premises for such period as may be decided by the company.

Signature of the Consumer:

*N. Satish Reddy*  
Date: *21/01/2019*  
**President**  
**Sarojini Educational Society**  
**VAKNEDA**

Signed by the Consumer in my presence:

Witness-1 *Kanda Veeraj*

Signature: *K. Veeraj*

Name & Address: *K. Veeraj*  
*S/o Apparao*

Date: *21/01/2019*  
*Gollaprolu*  
*S.no:- 1452530701007221*

Witness-2 *Raparthi Balaji*

Signature: *Balaji*

Name & Address: *S/o Satyanarayana*  
*Dw:- 3-73/7A, Rameswampeta*  
*Grande palli (M). EG Dt AP*

Date: *21/01/2019*  
*S.no:- 1421600111001368*

*/*  
**Superintending Engineer**  
**OPERATION, RAJAMAHENDRAVARAM**



**Regd. Post with ack. Due**

**EASTERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED  
OPERATION CIRCLE :: RAJAMAHENDRAVARAM**

VidyutBhavan, Ullithota Street, Godavari Bund, Rajamahendravaram - 533101  
Phone No.0883- 2471862, FAX No.0883-2463354, Email: serjy@apeasternpower.com

From  
Superintending Engineer  
Operation::APEPDCL,  
Rajamahendravaram.

To  
M/s Sarojini Educational Society,  
President : Sri N.Satish Reddy,  
HT RJY-856,  
Aditya Nagar, ADB Road,  
Surampalem (V), Gandepalli (M),  
E.G.District - 533 437.

Lr.No.SE/O/RJY/DE.T/ADE/Comml./F./D.No. 1651 /17,Dt. 23 -09-17.

Sir,

Sub: APEPDC Ltd., - Operation Circle, Rajamahendravaram - Registration of HT Application for Solar grid interactive roof-top and SPV 500KWp to M/s.Sarojini Educational Society, HT RJY-856, in favour of President: Sri N.Satish Reddy, at Aditya Nagar, ADB Road, Surampalem (V), Peddapuram Town Section in E.G. District of Operation Division Kakinada -- Feasibility certificate issued - Reg.

Ref: 1).PR.No.1709127310017, Dt.12-09-17.

2).Lr.No.DE/O/KKD/AE-C/F./D.No.3349/17, Dt.14-09-17 Received in E-office on 20.09.2017.

\*\*\*\*\*

With reference to your registration for HT Net metering application for SC No. HT RJY-856, M/s.Sarojini Educational Society in favour of President: Sri N.Satish Reddy at Aditya Nagar, ADB Road, Surampalem (V), Peddapuram Town Section in E.G. District of Operation Division Kakinada vide reference 1<sup>st</sup> cited above for installation of solar SPV generator for 500KWp on your roof top proposed at M/s. Sarojini Educational Society is inspected by the Divisional Engineer / Operation / Kakinada and Divisional Engineer / M&P / Rajamahendravaram and found feasible.

Further you are requested to approach Divisional Engineer / Operation / Kakinada and Divisional Engineer / M&P / Rajamahendravaram with relevant documents (Meter, modules, Grid Tie Inverter, Protective System) after completion of installation of SPV generator.

Encl: As above.

Yours faithfully,

#Approved By#  
Superintending Engineer  
Operation:Rajamahendravaram

**Signature valid**

Copy to / Divisional Engineer/Operation/APEPDCL/Kakinada.

Copy to / Divisional Engineer/M&P/Rajamahendravaram.

Digitally signed by YALAMANCHILI SRIMANUJAN PRASAD Date: 2017.09.22 18:26:33 IST Reason: Approved

Copy submitted to the Chief General Manager /Commercial, Civil &Solar Energy/APEPDCL/ Surampalem for favour of information please.



**GOVERNMENT OF ANDHRA PRADESH**  
**DIRECTORATE OF ELECTRICAL SAFETY**

FROM:  
THE DY. CHIEF ELECTRICAL INSPECTOR  
TO GOVERNMENT: VIJAYAWADA,  
D.NO: 27-16-175, 3<sup>RD</sup> FLOOR,  
MUDDA SUBBAIAH STREET,  
GOVERNOR PET,  
VIJAYAWADA 520 002.

TO:  
M/S SAROJINI EDUCATIONAL SOCIETY,  
ADB ROAD,,  
SURAMPALEM,  
PEDDAPURAM MANDAL,  
EAST GODHAVARI DISTRICT.

508/

Lr. No. Dy.C.E.I.G./VJA/TECH/HT/KKD/D.No: /18 Dated: 05-05-2018

Sir,

Sub:- The Electricity Act 2003 and the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010. Electrical Installation of voltage exceeding 650V of M/S SAROJINI EDUCATIONAL SOCIETY, ADB ROAD,, SURAMPALEM, PEDDAPURAM MANDAL, EAST GODHAVARI DISTRICT, - Statutory Approval under regulation 43(4) & section 54 of Electricity Act 2003 - Accorded.

Ref:- 1. This office Lr.No:Dy.C.E.I.G./VJA/TECH/KKD/D.No:295/18Dated:08-03-2018  
2. Inspection dated: 28-04-2018  
3. Your Compliance report received on: 05-05-2018

Under regulation 43(4) of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 and Section 54 of the Electricity Act 2003, the following equipment of your Electrical Installation is approved for energisation.

**AS PER ANNEXURE ENCLOSED**

Under regulation 43(4) of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, any additions or alterations to your above Electrical Installation shall not be connected to supply until and unless the same are approved in writing by this office.

Under regulation 13(4) and 46(7) of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, you are solely responsible for the maintenance of the above installation in such condition as to be free from danger.

Manufacturer's test certificate of Transformer is accepted; list of loads is approved and returned here with.

The above approval is accorded without prejudice to the statutory/mandatory obligations to be fulfilled by you under various other acts /regulations as the case may be and ipso facto does not confer any right to use for any other purpose.



Yours faithfully

*[Signature]*  
DEPUTY CHIEF ELECTRICAL INSPECTOR  
TO GOVERNMENT: VIJAYAWADA

Encl: 1. Load list  
2. Test Certificates

1. Copy to the Divisional Engineer/ Operation/ E.P.D.C.L of A.P/KAKINADA, for information. The date of release of supply to the above H.T. Installation may be intimated to the Deputy Electrical Inspector, KAKINADA Sub-Division for information.
2. Copy to the Deputy Electrical Inspector, KAKINADA Sub-Division, for information.

Regd. Post with ack. Due

EASTERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED  
OPERATION CIRCLE RAJAMAHENDRAVARAM  
VidyutBhavan, Ullithota Street, Godavari Bund, Rajamahendravaram - 523101  
Phone No.0883- 2471862, FAX No.0883-2463354, Email: serjy@apeasternpower.com

From  
Superintending Engineer  
Operation::APEPDCL,  
Rajamahendravaram.

To  
M/s Sarojini Educational Society,  
President : Sri N.Satish Reddy,  
HT RJY-856, Aditya Nagar,  
ADB Road, Surampalem,  
E.G.District - 533 437.

Sir,

Lr.No.SE/O/RJY/DE.T/ADE/CommI/F./D.No.1035 /18.Dt.20-06-18.

Sub: APEPDC Ltd., - Operation Circle, Rajamahendravaram - Application for Solar grid interactive roof-top and SPV 500KW to M/s.Sarojini Educational Society, HT RJY-856 in favour of President: Sri N.Satish Reddy at Aditya Nagar, ADB Road, Surampalem (V), Peddapuram Town Section in E.G. District of Operation Division Kakinada - Synchronization Certificate Issued - Reg.

Ref: 1).PR.No.1709127310017, Dt.12.09.17.

2) Lr.No.SE/O/RJY/DE.T/ADE/CommI/F/D.No.1651/17, Dt.23.09.17.

3) Memo.No.SE/O/RJY/DE.T/ADE/CommI/F/D.No.854 /18, Dt.28.05.18.

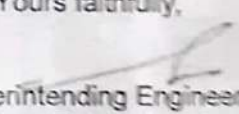
\*\*\*\*

With reference to 1<sup>st</sup> cited, Registration for HT Net metering application for SC No. HT RJY-856 to M/s.Sarojini Educational Society, President: Sri N.Satish Reddy at Aditya Nagar, ADB Road, Surampalem (V), Peddapuram (T) Section in E.G. District of Operation Division Kakinada feasibility was issued vide reference 2<sup>nd</sup> cited and approval for synchronization was accorded vide reference 3<sup>rd</sup> cited.

Accordingly solar SPV generator for 500KWp to M/s.Sarojini Educational Society of HT RJY-856 is synchronized with grid on 29.05.18. This is for favour of information.

Encl: As above.

Yours faithfully,

  
Superintending Engineer  
Operation: Rajamahendravaram

Copy to the Divisional Engineer/Operation/APEPDCL/Kakinada.

Copy to the Divisional Engineer/M&P/Kakinada.

Copy submitted to the Chief General Manager /Commercial, Civil & Solar Energy/APEPDCL/  
Visakhapatnam for favour of information please.



**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](mailto:info@nredcap.in) Website: [www.nredcap.in](http://www.nredcap.in)



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

*Speed post 1204*

Dt.19.02.2018

To

M/s. **Sarojini Educational Society,**  
Aditya Nagar, ADB Road, Surampalem (V),  
Gandepalli(M), E.G.Dist – 533437.

Sir,

Sub: Installation of **500 KWp** Grid connected SPV Power Plants at **M/s. Sarojini Educational Society, Aditya Nagar, ADB Road, Surampalem (V), Gandepalli(M), E.G.Dist**

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

2) Your proposal dated: 24.11.2017.

& &

We invite your attention to your proposal submitted vide reference 2<sup>nd</sup> cited for installation of **500 KWp** grid connected Solar roof top system at **M/s. Sarojini Educational Society, Aditya Nagar, ADB Road, Surampalem (V), Gandepalli(M), E.G.Dist – 533437.**

Taking into consideration the in principle sanction communicated by MNRE vide reference 1<sup>st</sup> cited, in principle sanction is hereby accorded for taking up installation of **500 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](http://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.**



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.

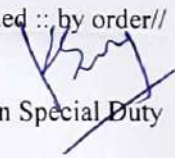
Thanking you,

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

### STATEMENT OF EXPENDITURE (SOE)

Name of state	Andhra Pradesh
Implementing agency	<u>OSTRICH</u>
Name of project	<u>500KW SOLAR ROOF TOP SYSTEM</u>
Sanction no & date	<u>NREDCAP/OSD/GCRT/EDU.Insti/61A/2018</u>
CFA sanctioned	<u>Rs 18per Watt</u>
CFA released	NO

### DETAILS ABOUT COMPLETED PROJECT

Sl	Type of system installed	Capacity (kWp/No)	Location	Total Expenditure Incurred	MNRE share (Rs)	NREDCAP Subsidy(Rs)	User share (Rs)
1	Supply, Installation, Testing & Commissioning of 500 KWp Grid connected solar PV power plant as Per MNRE	500 KWp	<b>Sarojini Educational Society.</b> Aditya Nagar, ADB Road, Surampalem(V), Gandepalli(M, E.G Dist- 533437)	3,00,00,000/-	90,00,000	N/A	3,00,00,000

### BREAKUP OF THE CFA

Sl.no	Item description	Cost (Rs)
1	CFA @Rs. 18 Per Watt for the project capacity of 500 KWp	90,00,000/-
2	Sate Govt. Subsidy Rs. Per Watt for the capacity 500 KWp	N/A
3	Total Eligible CFA	90,00,000/-
4	CFA released	Nil
5	Interest earned on released CFA	N/A
6	Total funds available (in case of advance release)	N/A
7	Balance amount to be released by MNRE/NREDCAP, unspent amount to be returned to MNRE/NREDCAP	90,00,000/-

Date: 19/06/2018

Place: Rajamahendravaram

For **D. KAMESWARA RAO & CO.:**  
Chartered Accountants



*A.L. Narasimha Rao*  
**A.L. NARASIMHA RAO**  
M.NO: 202005  
PARTNER.

PVSYST V6.67					28/11/17	Page 1/3
<h2 style="text-align: center;">Grid-Connected System: Simulation parameters</h2>						
<b>Project :</b>		<b>New Project</b>				
<b>Geographical Site</b>		<b>Surampalem</b>		<b>Country</b>	<b>India</b>	
<b>Situation</b>		Latitude	17.09° N	Longitude	82.07° E	
Time defined as		Legal Time	Time zone UT+5.5	Altitude	64 m	
		Albedo	0.20			
<b>Meteo data:</b>		<b>Surampalem</b> Meteonorm 7.1 (1981-2010), Sat=86% - Synthetic				
<b>Simulation variant :</b>		<b>New simulation variant</b>				
		Simulation date	28/11/17 15h22			
<b>Simulation parameters</b>						
<b>Coll. plane: Seasonal tilt adjustment</b>		Azimuth	0°	Winter season	O-N-D-J-F-M	
		Summer Tilt	6°	Winter Tilt	40°	
<b>Models used</b>		Transposition	Perez	Diffuse	Perez, Meteonorm	
<b>Horizon</b>		Free Horizon				
<b>Near Shadings</b>		No Shadings				
<b>PV Array Characteristics</b>						
<b>PV module</b>		Si-poly	Model	<b>ELDORA</b>		
Custom parameters definition		Manufacturer	VIKRAM SOLAR			
Number of PV modules		In series	19 modules	In parallel	82 strings	
Total number of PV modules		Nb. modules	1558	Unit Nom. Power	325 Wp	
Array global power		Nominal (STC)	<b>506 kWp</b>	At operating cond.	467 kWp (50°C)	
Array operating characteristics (50°C)		U mpp	662 V	I mpp	706 A	
Total area		Module area	<b>3023 m²</b>	Cell area	1708 m²	
<b>Inverter</b>						
Original PVsyst database		Model	<b>TRIO-TM-50_0-TL-OUTD-400</b>			
Characteristics		Manufacturer	ABB			
		Operating Voltage	300-950 V	Unit Nom. Power	50 kWac	
Inverter pack		Nb. of inverters	30 * MPPT 33 %	Total Power	500 kWac	
<b>PV Array loss factors</b>						
Thermal Loss factor		Uc (const)	20.0 W/m²K	Uv (wind)	0.0 W/m²K / m/s	
Wiring Ohmic Loss		Global array res.	15 mOhm	Loss Fraction	1.5 % at STC	
Module Quality Loss				Loss Fraction	-0.8 %	
Module Mismatch Losses				Loss Fraction	1.0 % at MPP	
Strings Mismatch loss				Loss Fraction	0.10 %	
Incidence effect, ASHRAE parametrization		IAM =	1 - bo (1/cos i - 1)	bo Param.	0.05	
<b>User's needs :</b>		Unlimited load (grid)				



## Grid-Connected System: Main results

**Project :** New Project

**Simulation variant :** New simulation variant

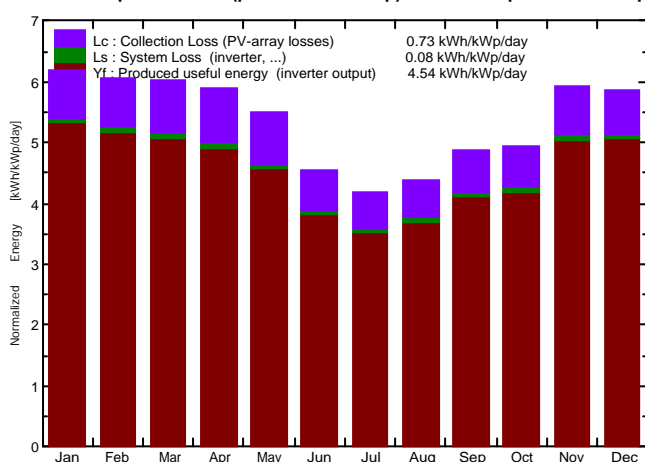
### Main system parameters

PV Field Orientation	Seasonal tilt: summer/winter	System type	<b>Grid-Connected</b>	azimuth	0°
PV modules		Model	ELDORA	Pnom	325 Wp
PV Array		Nb. of modules	1558	Pnom total	<b>506 kWp</b>
Inverter		Model	TRIO-TM-50_0-TL-OUTD-400		50.0 kW ac
Inverter pack		Nb. of units	10.0	Pnom total	<b>500 kW ac</b>
User's needs		Unlimited load (grid)			

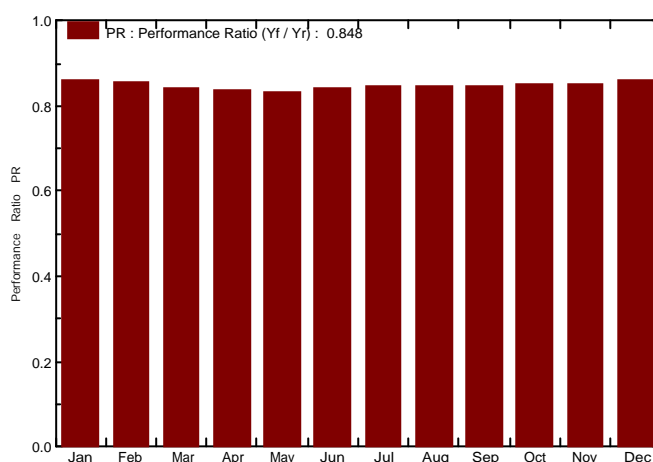
### Main simulation results

System Production	<b>Produced Energy</b>	<b>839.1 MWh/year</b>	Specific prod.	1657 kWh/kWp/year
	Performance Ratio PR	84.80 %		

Normalized productions (per installed kWp): Nominal power 506 kWp



Performance Ratio PR



### New simulation variant Balances and main results

	GlobHor kWh/m <sup>2</sup>	DiffHor kWh/m <sup>2</sup>	T Amb °C	GlobInc kWh/m <sup>2</sup>	GlobEff kWh/m <sup>2</sup>	EArray MWh	E_Grid MWh	PR
January	148.4	53.17	23.43	192.1	188.1	84.94	83.49	0.858
February	145.3	60.99	25.28	169.2	165.1	74.46	73.18	0.854
March	183.4	70.45	28.21	187.1	181.7	81.13	79.71	0.841
April	176.1	80.77	30.43	176.7	170.9	76.07	74.75	0.836
May	172.1	94.05	32.79	170.0	164.1	72.95	71.69	0.833
June	138.7	92.20	31.14	136.4	131.2	59.24	58.20	0.843
July	130.8	92.81	29.92	129.2	124.2	56.51	55.48	0.848
August	136.0	85.68	28.81	135.4	130.4	59.21	58.13	0.848
September	143.8	79.33	28.19	145.8	140.7	63.71	62.58	0.847
October	142.3	71.10	27.59	153.1	148.9	67.04	65.84	0.849
November	142.3	55.01	25.34	177.4	173.5	78.00	76.63	0.853
December	136.6	56.66	23.63	181.8	177.9	80.77	79.42	0.863
Year	1795.8	892.21	27.91	1954.3	1896.7	854.04	839.10	0.848

Legends:	GlobHor	Horizontal global irradiation	GlobEff	Effective Global, corr. for IAM and shadings
	DiffHor	Horizontal diffuse irradiation	EArray	Effective energy at the output of the array
	T Amb	Ambient Temperature	E_Grid	Energy injected into grid
	GlobInc	Global incident in coll. plane	PR	Performance Ratio

## Grid-Connected System: Loss diagram

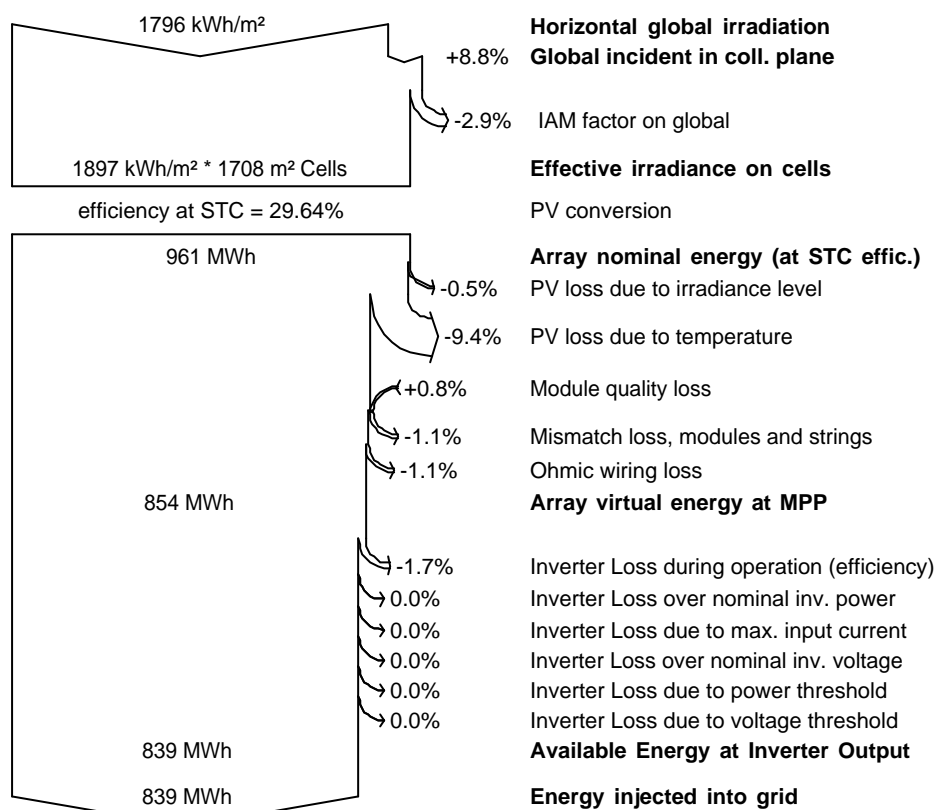
**Project :** New Project

**Simulation variant :** New simulation variant

### Main system parameters

	System type	<b>Grid-Connected</b>		
PV Field Orientation	Seasonal tilt: summer/winter	6°/40°	azimuth	0°
PV modules	Model	ELDORA	Pnom	325 Wp
PV Array	Nb. of modules	1558	Pnom total	<b>506 kWp</b>
Inverter	Model	TRIO-TM-50_0-TL-OUTD-400		50.0 kW ac
Inverter pack	Nb. of units	10.0	Pnom total	<b>500 kW ac</b>
User's needs	Unlimited load (grid)			

### Loss diagram over the whole year





# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC

Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

## BIO GAS PLANT



**BIO GAS PLANT INSTALLED IN THE CAMPUS**





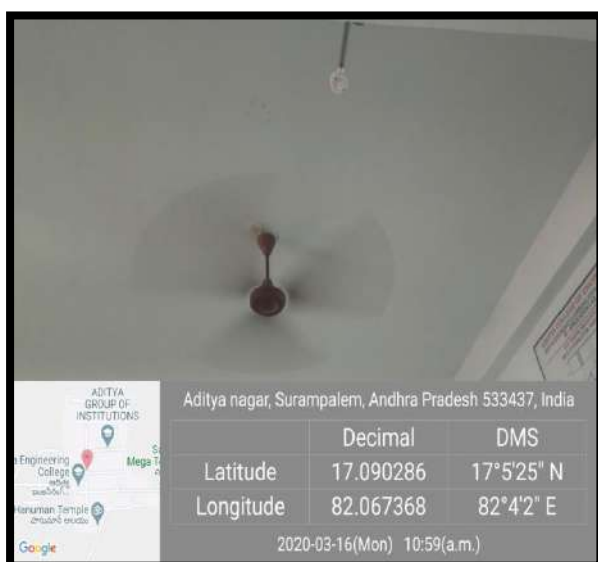
# ADITYA COLLEGE OF ENGINEERING

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Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

## Sensor based Energy Conservation

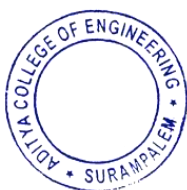
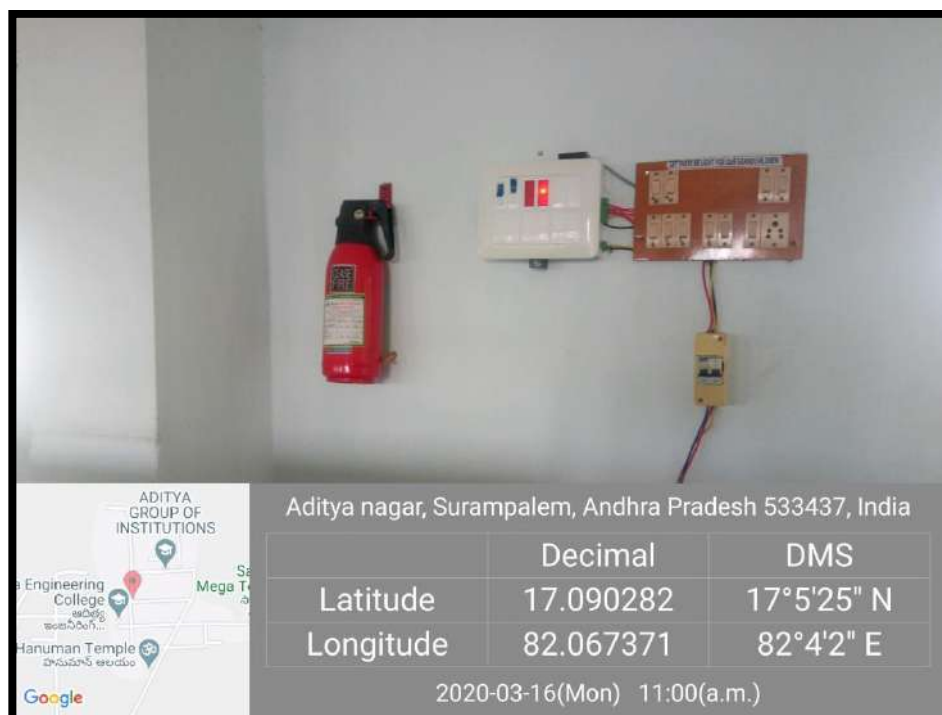
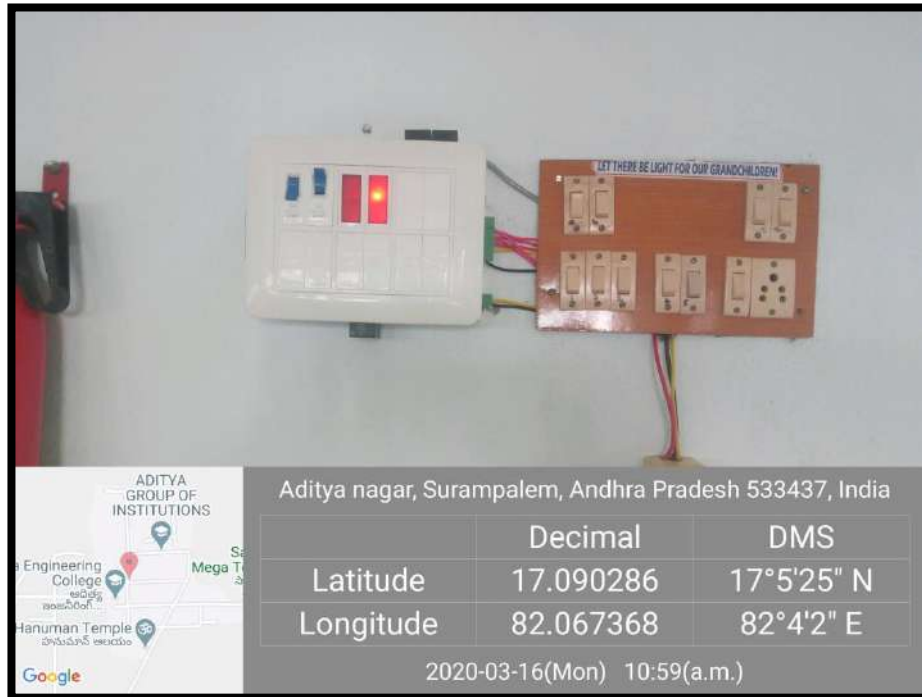
Some of the Labs in the Institution are established with sensor controlled **Fans and Lights**.



PRINCIPAL

PRINCIPAL  
Aditya College of Engineering  
SURAMPALAM-533 437

## Sensor Control unit



**PRINCIPAL**

PRINCIPAL  
Aditya College of Engineering  
SURAMPALEM-533 437



# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC

Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

## Percentage of annual lighting requirement met through LED bulbs

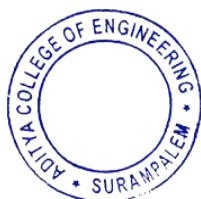
**52%** of the total lighting requirement of the institution met through LED bulbs

### Energy usage of LED bulbs in the college

Department/area	Number of LED bulbs	Power consumed (watts)	Power in (KW)	Working time (hours per Day)	Energy Usage per month (kWh)
Ramanujan Bhavan	243	9	0.009	6	320.76
Newton Bhavan	20	9	0.009	7	26.4
James Watt Bhavan	36	9	0.009	6	47.52
Mechanical shed	15	12	0.012	6	19.8
Other/Outside area	10	9	0.009	7	13.2
Total Energy usage per month (kWh)					427.68

### Energy usage of CFL bulbs in the college

Department/area	Number of CFL bulbs	Power consumed (watts)	Power in (KW)	Working time (hours per Day)	Energy Usage per month (kWh)
Ramanujan Bhavan	86	15	0.015	6	170.28
Newton Bhavan	5	20	0.02	7	9.9
James Watt Bhavan	18	15	0.015	6	35.64
Total Energy usage per month (kWh)					215.82

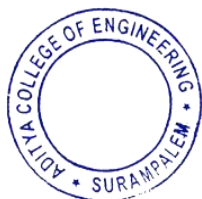
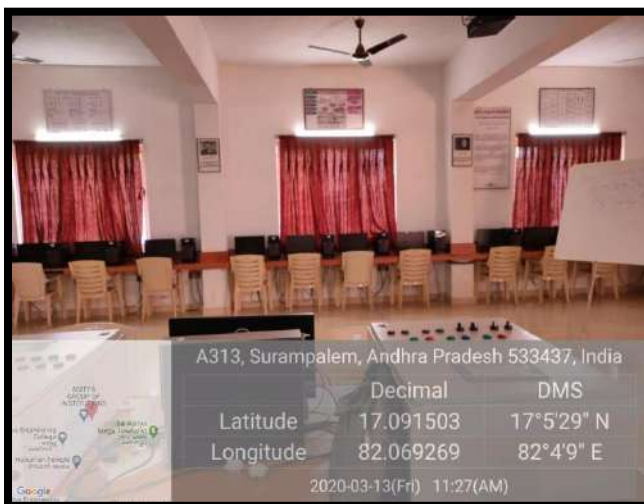


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## LED bulbs used in Seminar halls and Labs



*Handwritten signature*

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Terms of Delivery  $\frac{230}{29}$  GRN

E & O E

INR Thirteen Thousand Nine Hundred Fifty Only

for SREE LAKSHMI PRIYA POWER LINES

Authorised Signatory

**This is a Computer Generated Invoice**

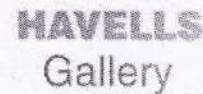
**POLYCARB**



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SURAMPALEM-533 437







Dated 13-Oct-2018

E-Mail : [rajasthanele@yahoo.com](mailto:rajasthanele@yahoo.com)

Party : ADITYA COLLEGE OF ENGINEERING, ADB ROAD, SURAMPALEM

Place of Supply : Andhra Pradesh

Company's PAN : AAHFR7507G

Authorised Signatory

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Aditya College of Engineering  
SURAMPALEM 533 437

Authorized Dealer

## RAJASTHAN ELECTRICAL & ELECTRONICS

(A Ultimate Multi Floor Electrical Shopping Complex) D.No. 13-1-42, Main Road, Kakinada.

Tel : 0884-2376707, Cell : +91 98488 51937, +91 98494 09007, +91 97045 68500

E-mail : rajasthanale@yahoo.com - On Goods return - For payment Tax will be deducted

Inspired  
**INNOVATION**  
Futuristic designs.

RAJASTHAN ELECTRICAL



# GST TAXINVOICE CREDIT

<b>SREE LAKSHMI PRIYA POWER LINES - (2019-20)</b> Door No.2-1-11/1, Opp. Geet Sangeet Theatre Sriram Nagar, Bhanugudi Jn.Kakinada Ph : 9848499880,8790242223 GSTIN/UIN: 37AAIFS4481R1Z9 State Name : Andhra Pradesh, Code : 37 E-Mail : lakshmipriyapowerlines@gmail.com	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Invoice No. <b>1552/2019-20</b></td> <td style="width: 50%;">Dated <b>7-Sep-2019</b></td> </tr> <tr> <td>Delivery Note</td> <td>Mode/Terms of Payment</td> </tr> <tr> <td>Supplier's Ref.</td> <td>Other Reference(s)</td> </tr> <tr> <td>Buyer's Order No.</td> <td>Dated</td> </tr> <tr> <td>Despatch Document No.</td> <td>Delivery Note Date</td> </tr> <tr> <td>Despatched through</td> <td>Destination</td> </tr> <tr> <td colspan="2">Terms of Delivery</td> </tr> </table>	Invoice No. <b>1552/2019-20</b>	Dated <b>7-Sep-2019</b>	Delivery Note	Mode/Terms of Payment	Supplier's Ref.	Other Reference(s)	Buyer's Order No.	Dated	Despatch Document No.	Delivery Note Date	Despatched through	Destination	Terms of Delivery	
Invoice No. <b>1552/2019-20</b>	Dated <b>7-Sep-2019</b>														
Delivery Note	Mode/Terms of Payment														
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Despatch Document No.	Delivery Note Date														
Despatched through	Destination														
Terms of Delivery															
Buyer <b>ADITYA COLLEGE OF ENGINEERING</b> Surampalem State Name : Andhra Pradesh, Code : 37															

SI No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Disc. %	Amount
1	25MM BENDS	3917	18 %	2,000.000 no's	4.66	no's		9,320.00
2	HL-ADORE 9 WAT LED	9405	12 %	200.000 no's	70.54	no's		14,108.00
				199 nos				22,428.00
	CGST 6%				6 %			846.48
	SGST 6%				6 %			846.48
	CGST 9%				9 %			838.80
	SGST 9%				9 %			838.80
	Round Off							1.44
	<b>Total</b>			<b>2,200.000 no's</b>				<b>₹ 26,800.00</b>

Amount Chargeable (in words)

E &amp; O E

**INR Twenty Six Thousand Eight Hundred Only**

 Company's VAT TIN : **37960199368**

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details

 Bank Name : **Canara Bank OCC A/c**

 A/c No. : **2765261001041**

 Branch & IFS Code : **Nagamallithota Branch & CNRB0002765**

 for **SREE LAKSHMI PRIYA POWER LINES - (2019-20)**

Authorised Signatory

APGST No. KDA/03/1/3606

## ESTIMATION

Cell: 98487 45647



## NATARAJ ELECTRICALS

Purushotham Lodge, Bhanugudi Junction,  
KAKINADA 533 003.

Date: 3/5/16

Sri. Aditya College of Engineering

S.No.	PARTICULARS	Qty.	Rate	AMOUNT	
				Rs.	Ps.
	3 hum	18	30	540	/-
	10 Atank	10	150	1500	/-
	musky	8	50	400	/-
	Ren	30	18	540	/-
	rim top	15	45	675	/-
	3ly hr	13	90	1170	/-
	Ren	16	120	1920	/-
			TOTAL	6745	00

Receiver's Signature

For NATARAJ ELECTRICALS

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Aditya College of Engineering  
SURAMPALEM







# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

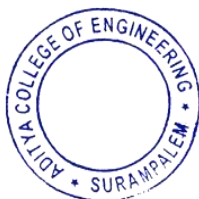
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

## The Institution utilized other power equipments to reduce the consumption

### A.C with star rating to reduce the power consumption



### Solar heaters

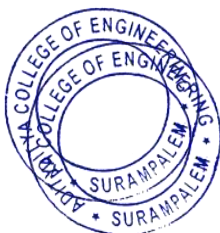


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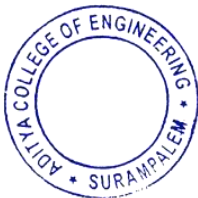
## Solar Water heaters in Hostel



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## Automatic Water Controller



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