

7.1.2 ALTERNATE ENERGY SOURCES AND ENERGYCONSERVATION MEASURES

PURCHASE BILLS

SOLAR PANELS

Institute has installed a 20 kWp Solar PV Rooftop system with Net-metering facility. Total 64 nos. of panels are installed on the rooftop.

			10.01.0010
		nt of Andhra Pradesh	10-04-2018
	Governmen	GER 19-A	
	Form of Ut	tilization Certificate	
5 No	Cheque No. & Date	Title of the work	Amount paid (Rs.)
-	701327, dtd: 15-09-2017	Solar Panel	13,48,000
3	701338. dtd: 10-04-2018	- Do -	3,37.000
2	701338, 414. 10-04 2019	Total Rs.	16,85,00
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Windstr India P	and in accordance with	b the terms and conditions as i Signature: 1) P (Dr. P. V. Visit 2) (D	Rumana Reddy) Ramana Reddy) PROCIPAL Marken Social Processor Rusa Coordinator r. K. Sudha)
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AKKIREDDY AGENCIES V. Guard Inverters, Online / Offline UPS, Solar Water Heaters, Stabilizers D.No.54-6-30/1, Opp. Isuka Thota Post Office, Near ICICI Bank, VISAKHAPATNAM Cell : 9848521433, 9849402874) TIN: 37790580713 INVOICE Invoice No.: 1653 Date 29/5/15 Buyer's Name Prim & Pal Address Visaleha Gravit Digness Callege worm VISALEHAPATNAM-26 Ph: D.C.No. D.C. Date TIN NO. Through Other Ref. Terms of Sale SI. No. PARTICULARS Qty. VAT Rate (%) Unit Rate VAT Amount Amount of Rs. Ps. y SERVO MAD CO 51 1 Solar Inverter 28000000 caparity 3KVA with 3000 watts Solar pands couth Iron stracture 2) V-GUARD Tall 4 14:5/ 56000 00 Tubular Battery ISDAH 4NOD 4/2 years warety For Solar Invent 2 years warrant 336000 00 All discutes are Subjected to VSP Jurisidiction only. For AKKIREDBY AGENCIES Gebes once sold cannot be taken back. Signature



eligible consumber has taken the responsibility to set up er facilitate the requisite Photovoltaic system and injection of power into the Discon's grid and whereas, the Discon agrees to benefit the eleigible consumber for the electricity generated and as per conditions of this agreement and Schar reactop guidelines Both the party hereby agrees to as follows:-

1. Sligibility

1.1 Sligibility consumber is required to be aware, in advance of the standard and conditions his system has to meet for being integrated into grid/distribution system.

1.2 Sligible consumber agrees that connection of Photovoltaic system to Discom's distribution system shall be bound by requirements of State Distribution Code and/or Discom's perform with specified reliability, Security and quality as per the Central Electricity Authority (Grid Standard) Regulations. 2019 as amended from time to time.

1.3. All registered companies, Government entities Partnership companies/Firms, Individuals and all consu, ner of APDiscom(s) will be eligible for setting up of Solar Power Projects within the state for sale of electricity by captive use, in accordance with the electricity act, 2003 and Andhra Pradesh, Sclar Power Policy, as amended from time to time.

1.4 Group of Persons by societies will also be elegible for setting up sclar roof top projects (SRP) for sale of electricity to DISCOM by captive use or for self consumption.

2. Capacity of the SPV Plant and Maximum Contracted load of the premises

2.1 The Sligible Developer/Consumber is proposing to install rooftop sclar power plant of

5 kWp gapacity under Sclar ROOF TOP SPV (Net/Gross) metering facility at Street Old Jail Road; VISARRA DEGREE COLLEGE (GOVT) FOR WOMAN, Visakhapatnam, having electrical service connection , Category VII, 2 3 Phase, Distribution ____ no. for a contracted loan on29 Kw/HPKVA. The Eligible developer have requested DISCOM to provide grid contectvivity by necessary permissions to connect rooftop solar power plant and supply solar energy into the distribution of NETWORK of

ont..3..

DISCOM at _____Oltage inevel which shall be extended for a period of 25 years.

3. Governing Provisions:

The Sligible developer hereby undertake to comply with all the requirements of the Electricity Act, 2003 the Rules and Regulations framed under, Provisions of the Tariffs, applicable charges and 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 the time to time and agree not to dispute the same.

4. Technical and interconnection Requirements

S.* 4.1. Eligible consumber agrees that he will install, prior to connection of Photovoltaic system to Discom's distribution system, an isolation device and agrees for the Discom to have access to and operation of this, if required, for repair and maintenance of the distribution system.

4.2 Eligible Consumber agrees that in case of a power outage of Discom's system, Photogoltaic system will shut down, unless special transfer and isolating cepabilities have been installed on photovetaic system. The Discom shall not be obligayed to accept and may require the Eligible Developer to interrupt or reduce deliveries when neccessary with a reasonable notice to the Eligible Developer.

4.3 The Eligible Developer shall strictly alhere to the standards specified by CEA/MNRE and installations of electrical equipment must comply with Indian Electricity rules, 1956, 4.4. The Eligible Developer can install SPV on building walls salse 4.5 Prior approval of Chief Electrical inspectorate General (CEIG) is required in case of an SRP connected at LT level of distribution network with more than 10KW cepacities.

4.6. Eligible consumper agrees that Discom will specify the interface/ inter connection point and metering point.

4.7 Eligible consumber agrees to adhere to following power quality measures as per International or Indian standards and/or other such measures provided by Commission/Discom.

a. Harmonic current: Harmonic current injections from a generating station shall not exceed the idmits specified in ISSS 519.

b. Synchronization, Photovoltaic system must be equipped with a grid frequency synchronization device. Page 3 / 5 - • +



4.9 Gril Connectivity and Evacuation facility:

The Power generated from a solar power project shall be injected at an appropriate voltage at the sub-station and/or interconnection point of the APTransco/Discom(s) . The Eligible Developer shall bear the entire cost of construction of power evacuation facilities, from the project up to the interconnection point and/or up to APTransco/Discom(s) substation. The Eligible Developer shall abile by the orders, rules, regulations and terms and conditions as approved by the commission from time to time for operation of Solar power Projects, Power evacuation, Transmission and wheeling of energy. Solar Power Projects will be exempted from paying the supervision charge to APTransco/Discom(s) towards the internal evacuation infrastructure within the project site and up to interconnection point. Any upstream system strenghthering requirement shall be born by KKX APTransco/Discom(s) on a priority basis.

4.10 It is imperative to seek the technical details of the installation infrasturture from the supplier at the time of system installation and retain with the Eligible developer/consumber.

5. Implementation Process:

Implementation of solar rooftop net/gross metering facility will be as per the following guidenlines:-

I) Under Net metering, Power is first sent to the applicances and lights in the house, and if excess memains, it is excerted to the outside electricity network and its quantum records, i) Under Gross Metering, all solar electricity generated is experted to the outside electricity network through an indempendent meter.

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PRINCIPAL Visaicha Govt. Degree Concare for Women Visaichapatnam-530020.

SENSOR BASED BULBS

Institute has installed motion sensors to control the switching ON/OFF of the lights to save energy.

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-	PRMYAG					Ρ			91899 Email: pr 7AAMCP3052E		is@gmail.con
Bill TO ,	To: THE PRINCIPAL ,VGDCW, VISAKH	APATNAM							Place o		dhra Pradesi ice No.: 175 e: 18-03-202
#	Item name	HSN/ SAC	Quantity	U	nit	MRP		axable mount	CGST	SGST	Amour
1	Motion sensor (motion sensoris a new energy-saving switch. It adopts a good sensitivity detector and an integrated circuit. This sensor gathers automatism, convenience, safety, energy-saving, and practical functions. It utilizes the infrared energy from the human body as a control signal source and it can start the load at once when one enters the detection field. It can automatically identify day and night and is easy to install and a widely used product.) Sensor tube lights 18w		3	3 №		₹2,415.25		245.76	(9.0%)	₹652.12 (9.0%)	₹ 8,550.0
2	(motion sensor in built light 18w dedicated)		12	1	10	₹ 1,652.54	₹19,8	330.51	₹1,784.75 (9.0%)	₹ 1,784.75 (9.0%)	₹23,400.0
3	Installation Charges (Installation with commissioning)		15	1	10	₹ 423.73	₹6,3	355.93	₹ 572.03 (9.0%)	₹ 572.03 (9.0%)	₹ 7,500.0
4	Power cable		50		-	₹21.19	₹ 1,0	059.32	₹95.34 (9.0%)	₹ 95.34 (9.0%)	₹ 1,250.0
	Total		65				₹ 34,4	491.52	₹ 3,104.24	₹ 3,104.24	₹ 40,700.0
	Tax type Taxable amo	unt	Rate Ta	ax amount	Ar	mounts:					
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LED BULBS BILL

LED BULBS BILL

Institute has replaced maximum existing lighting fixtures with LEDs and energy efficient lighting fixtures

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BIO GAS PLANT

The College has introduced Construction of Bio Gas plant as another innovative energy conservation measure to transform the vegetable waste from the hostel and cow dung in 25:75 ratio to prepare biogas by microbial fermentation.

The gas prepared from the plant is planned to utilize for the chemistry lab and the outlet slurry is used to prepare vermicompost.

GSTIN : 37AKDPR1516R2Z4 TAX INVOICE 0 **KIRAN ENGINEERING CONTRACTORS** D.No.55-3-14, Old Venkojipalem, H.B. Colony, Visakhapatnam - 530 013. E-mail : murthyakkena@gmail.com 104 To The Puincipal of Visakha Govt Degree college Cell S AMOUNT PARTICULARS Qty. Rate No. Rs. Ps. Construction o Bio-gas Plant 20 XII feet 1) 51,4501-00 Bearsa Collega Visakhapatna TOTAL Moman **BANK DETAILS :** 51,450 -00 % % SGST Rupees in words. FIFT ONE 51,450/00 **GRAND TOTAL** HOUSAND FOURHUI DRED AND FIFTY RUPEES ON For KIRAN ENGINEERING CONT Goods once sold cannot be taken back RACTORS Rama Mugk Authorised Signatory All Subject to Visakhapatnam Jurisdiction