

Tripura Renewable Energy Development Agency (TREDA),

(A Constituent Organization of Power Department, Government of Tripura), gyan Bhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura, Ph-0381-2325900(Fax), 2326139,email-tredaagartala@gmail.com

No F. 6(186) / TREDA / NCES / 15/ Pt. - I/26/

Date: [0/ 05/2019

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The Principal,
Holy Cross College,

Jubatara, Lembucherra

P.O: Mohanpur Road Agartala, Debendrachandranagar, Pin: 799210,

e-mail: Shajimlcsc@gmail.com

SUB: Beneficiary share for installation of grid connected Solar Photovoltaic Power Plant.

Sir,

Please refer to above.

Your application for installation of 30 KWp grid connected Solar Photovoltaic Power Plant at your College premises has been accepted by TREDA as per guidelines/regulations of TERC/TSECL. After survey of site it is assessed that, 30 KWp Power Plant may be installed at Holy Cross College premises.

The details of cost and beneficiary share etc. is given below:

-	Item Description	Capacity	Beneficiary share per KWp	share
	Supply, installation & commissioning of grid connected Solar Photovoltaic Power Plant		Rs. 16,201/-	Rs. 4,86,030/-

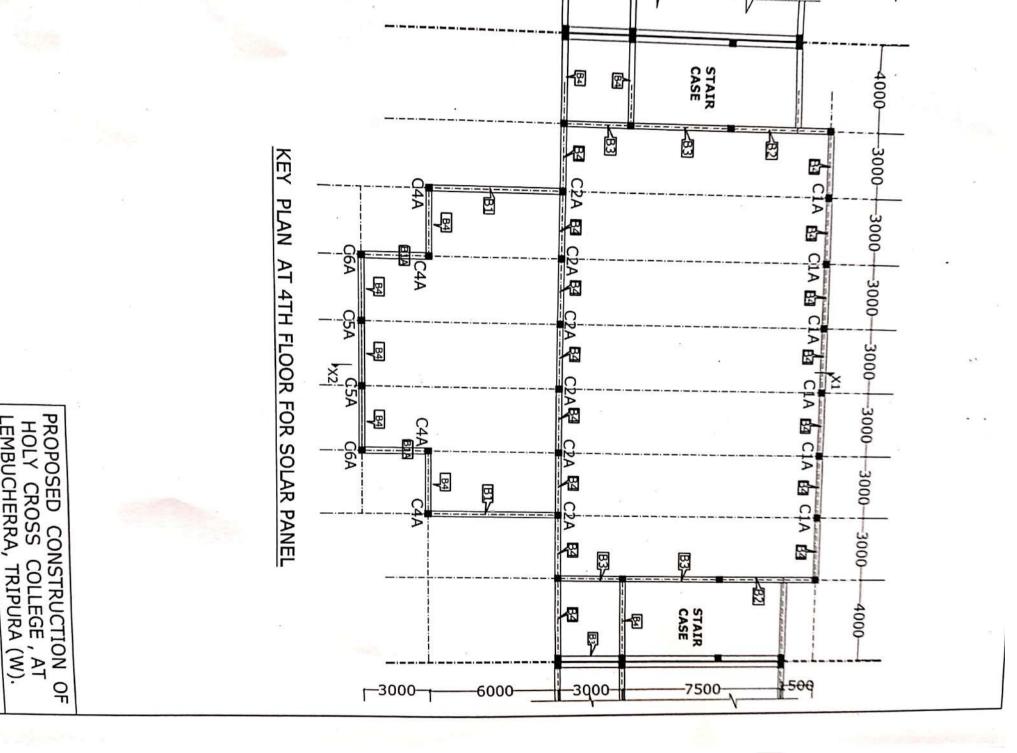
In this context you are requested kindly to place beneficiary share amounting to Rs. 4,86,030/- (Rupees four lakhs eighty six thousand thirty) only in the shape of Demand Draft payable at Agartala or may be deposited to the S/B Account No. 000112010012465, Tripura State Co-operative Bank Ltd. (TSCBL), Agartala Branch in favour of the Director General & CEO, Tripura Renewable Energy Development Agency for installation of 30 KWp grid connected Solar Photovoltaic Power Plant at your College premises. Cost of Net Meter would be charges extra as per actual.

You are also requested kindly to submit payment details to the office of the undersigned within the stipulated period for taking further necessary action from this end.

Yours faithfully

(D. S. DAS)

Joint Director

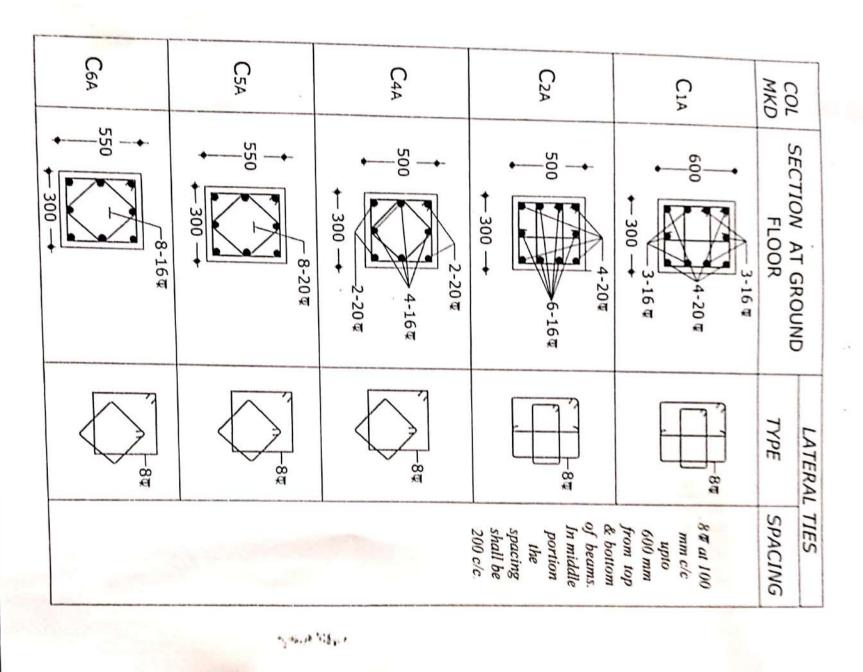


BLOCK I

PHASE-III Dated Aug 2019

DETAILS OF 4TH FLOOR FOR SOLAR PANEL.

LEMBUCHERRA,



LEMBUCHERRA, PROPOSED HOLY CROSS BLOCK I DETAILS OF CONSTRUCTION COLLEGE TRIPURA (W). 4TH FLOOR PHASE-III 유

FOR SOLAR PANEL.



TECHNICAL AND COMMERCIAL QUOTE FOR 50KWp GRID-TIE ROOFTOP SOLAR POWER PLANT

DATED:-19/12/2017

PRINCIPAL

70,

HOLY CROSS COLLEGE

JUBATARA, P.O LEMBUCHERRA

TRIPURA WEST





Scanned with OKEN Scanner

Dear Sir,

proposal/quotation for the same for your kind consideration. With reference to the discussion held with you for putting up a Grid Solar Roof Top System, we here in submit our most competitive

₩e touch with us for any clarifications, if required. Hope this is in-line with your requirements. Please feel free to get in

hope to get your valued order. forward to a mutually beneficial business relationship with you and assure you of our best attention and services at all times. We look

times. Thanking you and assuring you of our best professional services at all

MRINMOY ROY

DIRECTOR

MOBILE: 8794730270

INSIGHT CONSULTANTS

CONSULTANTS

INTRODUCTION



- Reduces your electricity bills
- Generates a passive income

Guaranteed long life span

- Reduces your carbon use

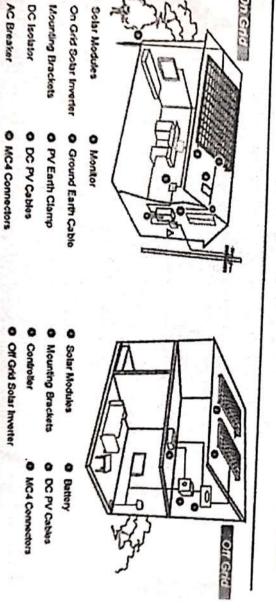


- Brings electricity to remote areas
- Provides electricity during power cuts
- Uses batteries to store power (these are expensive and need to be replaced every 1-5 years)

Requirements

- Existing grid infrastructure
- Grid company permit
- Government supported one off investment

- Detailed planning process
- Larger upfront investment
- Continued investment to extend lifespan



INSIGHT CONSULTANTS

DC Isolator AC Breaker

Solar Modules

REGISTERED OFFICE:- 40, JAIL ASHRAM ROAD, DHALESHWAR AGARTALA TRIPURA TELEPHONE: 03812328854 MOBILE: 8794730270

On Grid Systems

surplus back to the electricity company -usually at a nice profit. the panels generate more electricity than is needed by selling the night. In many countries, solar homes can also capitalize on times when time your solar panels generate less electricity than is needed, e.g. at 'integrated systems') are connected to the mains power supply just like a regular home. This means that mains power can still be used On Grid Solar Power System (also known as 'grid tie systems' or any

On Grid Systems usually require:

- Solar panels and an appropriate mounting system,
- Grid tied solar inverter(s) and monitor(s),
- Solar cables and MC4 connectors,
- AC and DC safety isolator switches, and
- Grounding earth cables and clamps.

COMPANY STRATEGY

in achieving this goal. We develop, plan, build and operate solar energy for the future. plants and systems. Solar power remains the most secure source of Our aim is to generate energy for the future. We set global standards

affiliate companies, and offer its products and services all over TRIPURA & ASSAM. are active in important core photovoltaic markets with several

INSIGHT CONSULTANTS







usiness functioning. Goals: Regional expansion in field of solar energy and develop a rong base of key customers. Increase the assets and investments of secompany to support the development of services. To build good sputation in the field of solar energy and become a key player in the	Trough innovation and advanced recursory? Core Values: We believe in treating our customers with respect and aith. We go through creativity, invention and innovation. We arearate honesty, integrity and business ethics into all aspects of our	☐ Mission: To build long terms relationships with our customer and lients and provide exceptional customer services by pursuing business	ustomers. Vision: To provide quality products and services that expectations four esteemed customer.	Purpose: To be a leader in solar energy generation industry by roviding enhanced services, relationship and profitability to our
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OUR SERVICES Site & Project Analyses System Design Balance of System Selection Erection and Commissioning Project Management Concration and Maintenance	
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SCOPE OF WORK

Design & Engineering

Materials & Project Report a. System design b. Engineering drawings c. Detailed Bill of

Procurement

delivery of materials a. Vendor sourcing b. Enquiry generation c. d. Invoice certification Ordering & follow up for

Electrical Works

a. Wiring of Modules b. Cabling from modules to Combiner box Cabling from Inverter to AC Distribution box f. Earthing Combiner Box assembly d. Cabling from Combiner box to inverter e.

Civil Work

a. Module Mounting structure's foundation

Installation Work — Supervision Assistance

Ω PV Module mounting on module mounting structure. b. Inverter connections before commissioning. Installation. c. Electrical wiring and testing of all electrical



DESIGN ASSUMPTIONS

are listed below: Assumptions that are considered for calculating the energy yield (DC)

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	Array soiling loss	MPP	Mismatch losses — Power loss at	efficiency loss	Module Quality — Module	fraction at STC	Global Wiring resistance in loss	lemperature (NOCT	Normal Operating Collector	Shading	Si - Fixed		PARAMETERS
	1.5%		2%		0.5%		1.5%		35 °C	No Shading	23 Degree	VALUES	VALUE

efficient PV module and 80% efficient grid tied inverter. solar power plant will generate approximate 40 KWh with 15.5% APPROXIMATE ANNUAL POWER GENERATION: 50 kWp ON Grid

doesn't include any batteries. given there is sunlight for 4-5hrs. This system is maintenance free as it This system is capable of generating 125 units of Electricity in a day



PROPOSAL	Ħ	10	ø	∞	7	4 10	3	SL.NO
SAL	Accessories	Earthing Kit	Data Logger with Remote Monitoring at PC	Flexible AC Cables	AC Distribution Box	Structure with 80 Micron GI	SOKWP GRID TIE SOLAR INVERTER	DESCRIPTION 250W/24V SOLAR BASIS
connector	Accessories for cable interconnection & installation kit as conduits, cables and DC	Chemical Earthing Kit	As per inverter manufacturer	PREMIER POLYCAB/FINOLEY	SURCLE SURCLE	PCC/RCC 80 Micron GI Fixed Angle	SU-KAM	PTION MAKE
	As	As per PV PLANT requirement	As per requirement 1 NOS	As per requirement	As per requirement	As per requirement 1 SET	200	QUANTITY

•	'n		5	4		υ C	1	2		-	. 80	SL NO
CC CIAD CENTEVING	PCC AND CENTERING		STRI ICTI IBE 18.0	DC WIRE 4 SQMM	Service of System	OI AB Balance of Co.	INVERTER	SU KAM SOKWA GRID TIE	PANEL	SU KAM 250W/24V SOLAR	CODE DESCRIPTION QUANTITY	PRODUCT DESCRIPTION
-		ı	. !	12	Ъ		۲	4		200	QUANTITY	
№ 55,000		₪ 3,75,000	E 3,000	D 2 COD	☑ 68,700		₫ 6,56,290		טפכיבד ה	D 10 E00	MRP	
☑ 55.000		₾ 3,75,000	四 2,150	20,000	P 54.000		₫ 4,46,630		B 10,600		QUOTED RATE	
E 55.000		₫3,75,000	₫ 44,160	D00,#C	3 E A 000		₫ 4,46,630		21,20,000	TAIOOIAI	AMOUNT	

Only/-TOTAL SUM:-Thirty Lacs Ninety Four Thousand Seven Hundred Ninety ₾ 30,94,790

ON INVESTMENT IS 5 YEARS) (THIS SYSTEM WILL BE FREE AFTER 5 YEARS OF USE AS THE RETURN

Terms and Conditions

INSIGHT CONSULTANTS
REGISTERED OFFICE:- 40, JAIL ASHRAM ROAD, DHALESHWAR AGARTALA TRIPURA
TELEPHONE: 03812328854 MOBILE: 8794730270



- 1. Above price is subjected to site visit i.e. price can be go up and go down
- 2. The above price quoted included all taxes (GST), installation cost is extra & service cost of
- 3. Operation and Maintenance included for 1 year in the above cost after that will decide by
- 4. Transportation of the material till the project site is included in the above cost.
- 5. If extra work and component required, will invoice you.
- CONSULTANTS clear purchase order with advance payments and schedule acceptance by INSIGHT 6. Procurement of Components - Minimum 20 days from the date of receipt of commercially
- 7. Project Commissioning Time Minimum 20-25 working days after delivery of structure at
- Installation and Commissioning. 8. Scope of work for Supplier- a) Complete SPV system- Procurement, Design of the plant,
- b) Power feed-in point —Till the AC junction box located inside the premises
- advance payment within two four working days. c) List of equipment and work plan shall be provided after releasing the purchase order and
- compensation act and employees provident fund act at third party basis. d) Supplier shall abide all labour laws, safety rules, minimum wages act, workmen
- Scope of work for Client-
- a) Components and Tools storage insurance at site to be provided by the customer.
- should be done by customer. b) Site of Power Plant to be identified and all necessary approvals for installing a solar plant
- c) All the approvals for structure anchoring at roof will be provided by customer.
- d) Client shall provide location for inverter and electrical equipment installation at site.
- e) Water and Electricity shall be provided by client
- f) Permission for night work, if required should be done by client on priority basis
- all the components and location, which we use for components installation. g) Before releasing the purchase order, employer will do a final meeting to understand about

Project. If client change any components then supplier will invoice to client for components and meeting and after procurement contractor cannot be change any h) If any modification required then employer will amend immediately during the initial stage

10. All the specification will be carried out as per MNRE Guidelines and Standards.

11. Custom Payment Schedule

	6	v	4		ω	N	-	3
	Installation Payment 3rd Month	Installation Payment 2nd Month	Installation Payment 1st Month		40% of the total of Equipment after setup of Equipment	20% of the total of Equipment after completion of structure	Order Order	PARTICULARS
₫3,79,800	₪ 1,26,600	№ 1,26,600	₫ 1,26,600	26,64,158	2 10,72,916	团 5,18,326	₪ 11,22,916	PAYMENT AMOUNT

- b) All the payment should be done by wire transfer i.e. NEFT/RTGS
- 12. Work order shall be in name of Insight Consultants.
- years 80% Performance b) Inverter:

 Sixty months from the date of commissioning. warranty a) PV Modules: 13. Force majeure will be subject to standard force majeure condition. □ 5 years workmanship □ 10 years 90% Performance 14. Component
- material and workmanship of the PV modules and inverters. one year. The system warranty covers the entire system except manufacturer's defects in 15. System warranty System warranty that our design and workmanship is free of defects for
- 16. Validity of offer: 45 days from the date of proposal.

