3407 mware Apr. EE/Div-I/Tech-98(52)/20-21/

> Sub-Div-III, Bambolim-Goa.

The Sub Divisional Engineer,

To,

GOVERNMENT OF GOADO OFFICE OF THE EXECUTIVE ENGINEER, ELECT. (O&M), 2nd FLOOR,

VIDYUT BHAVAN, PANAJI - GOA.

Email:ee1-elec.goa@nic.in Tel: :0832-2426421/2416022

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Date: 5.9/09/2020

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Sub: Grid connectivity for 240KWP Solar PV Rooftop system with Net Metering of The Registrar, Goa University, Bambolim-Goa.

Ref: No. AE/SD-III(R)/BML/Tech-38/20-21/874, Dated 22/09/2020.

Approval is hereby conveyed for Grid Connectivity to 240KWP Rooftop Solar PV power plant of The Registrar, Goa University, Bambolim-Goa, bearing CA No. 60000801385 subject to the following conditions:

1) The Bidirectional meter and total solar meter are to be installed at your end. For H.T. Prosumer, MRT to be called for installation inspection.

2) The observation raised during inspection if any is to be complied.

3) The date of Grid Connectivity should be intimated to this office without fail.

You are directed to maintain system/Grid so as uninterrupted evacuation of solar is maintain.

Also, monthly readings are to be taken by Sub-Division for Import and Export of energy and total meter for billing purpose.

> Executive Engineer, Elect. Div-I (O&M), Panaji

Copy to:-

1) The Registrar, Goa University, Bambolim-Goa.

Your kind attention is brought to section 9.5 of JERC Regulation 2019 which stated that the Consumer shall be solely responsible for any accident to human beings / animals whatsoever (Fatal/Non-fatal/ departmental/ Nondepartmental) that may occur due to back feeding from solar plant when grid supply is off. Provided that the Distribution Licensee shall have the rights to disconnect the Solar Project from its distribution Network at any time in the event of any threat of accident or damage from such project to its distribution system, for maintenance of distribution system so as to avoid any accident or damage to it.

The Chief Electrical Engineer, Electricity Department, 3rd Floor, Vidyut Bhavan, 2)

Panaji. The Superintending Engineer, Electricity Department, Circle-II(N), Panaji.

The Member Secretary, Goa Energy Development Agency, 5th floor, Goa IDC Building, near Passport Office, Patto, Panaji - Goa.

Smt. Mohsina Khan, Junior Engineer......alongwith copy of HT meter testing sheet of MRT.

2361 (B) 05 (08/2019 No.1/212/GEDA/19-20/3 20 Office of the Member Secretary Goa Energy Development Agency 5th Floor, Goa-IDC Building, Patto, Panaji, Goa – 403001. Date: 3/107/2019

To
The Chief Electrical Engineer
Electricity Department,
Vidyut Bhavan,
Panaji, Goa.

Sub: Application for the grid connectivity for the 365kWp Solar PV Power plant with Net Metering System.

Madam,

This office in receipt of letter from Registrar, Goa University, for seeking the grid connectivity and approval for installation of 365kWp Solar Power Plant under Net Metering to be installed at Goa University, Bambolim. The copy of the duly filled application form is forwarded to your office for issuing grid connectivity under Net Metering system.

In view of above, you are requested to kindly look into the matter and provide the grid connectivity for the 365kWp Solar Power Plant with Net Metering System.

Yours faithfully

John

(Sanjeev Joglekar) Member Secretary (GEDA)

Enclosure: As above.

Copy for information to:

Registrar, Goa University, Bambolim, Goa.

2) Concern file.

3) Guard file

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OFFICE OF THE CHIEF ELECTRICAL ENGINEER-ELECTRICITY DEPARTMENT

GOVERNMENT OF GOA VIDYUT BHAVAN 3<sup>rd</sup> FLOOR PANAJI - GOA ENGINEERING & TECHNICAL DIVISION GOA HUNTERSITY INWATO NO 2248

1000 - 1810 NT

Gonnet No. 0832-2224680,2222354/2426986(FAX)/Email ID: cee-elec.goa@nic.in

No.101/1/Solar/SPD/CEE/Tech/2019-20/ 1314

Dated: ///00/2019.

The Registrar,
Goa University,
Bambolim Goa 403005.

Sub: Grid connectivity for 365 kWp Solar PV Rooftop system, Net Metering at The Registrar, Goa University, Bambolim Goa. Ref: No 1/212/GEDA/19-20/320 dated 31/07/2019.

12110

Sir.

Provisional approval is hereby given to your installation bearing C.A. No. 60000803217 (HTI) at 33kv to install solar PV rooftop solar power generation restricting to contract demand of 365 kWp, at The Registrar, Goa University, Bambolim Goa, comes under jurisdiction of Division I, subject to the following conditions:

- ) The Grid connection shall be on "Net Metering" basis.
- 2) The inverter catalogue, manufactures test report, IEC certificate and other relevant details are to be submitted to the department and the same are required to be checked by MRT for its correctness of protection logic and automatic isolation and islanding protection at site.
- 3) All equipments should be tested from Accredited National Laboratories.
- The invertor shall have inbuilt automatic isolation and islanding protection on failure of grid supply. Apart from this, there should be back up islanding scheme to avoid accidental injection to grid by back feeding which can cause loss of life & property. The backup islanding scheme should be shown in the SLD and also explained in detail with recommended setting after studying the protection scheme of EDG. The report and study on protection system behavior during fault condition on EDG line should also be submitted. This is essential for reliable and timely tripping of solar supply from the grid during line fault in EDG system
- The provision for DG supply if any, should be shown on existing SLD. To avoid back feeding in EDG Network due to Solar Generation on D. G. set manual/automatic 4-pole changeover switch shall be installed for D. G. changeover.
- 6) Separate isolating switch 4 pole with neutral isolator disconnecting switch as per relevant capacity having locking arrangement to be provided by the party.

- 7) kind attention is brought to section 9.5 of JERC Net Metering Regulation 2019 which stated that the Consumer shall be solely responsible for any accident to human beings / animals whatsoever (Fatal/Non-fatal/ departmental/ Nondepartmental) that may occur due to back feeding from solar plant when grid supply is off. Provided that the Distribution Licensee shall have the rights to disconnect the Solar Project from its distribution Network at any time in the event of any threat of accident or damage from such project to its distribution system, for maintenance of distribution system so as to avoid any accident or damage to it.
  - 8) MRT tested bidirectional meter with AMR facility to be provided as main meter as per specifications and Regulations in force. The Specification are as
    - a) Meter: Renewable Energy meter (Bi-directional), Class: 0.5s, Rating: 3x = /5A; 3x = 110V/Rt. 3 V
    - b) CT & PT: The system voltage shall be as per the available HT supply level, i.e. Il KV, indoor Epoxy Resin Cast, wound Primary type, single phase, 50 Hz CT having ratio 25/5A, Class 0.5s, Burden 15VA, ISF <=5, STC 13.1KA/1-scc, 1LV - 36/70/170KV, Ref. Std. 1S:2705/1992, Secondary Terminals on p2 side.

Indoor Epoxy Resin Cast VT, single phase, single pole, 50Hz, ratio 11 KV/Rt.3//110V/Rt.3, Class 0.5s, Burden 50VA, Voltage factor 1.2, continuous 1.9 for 8 hours, 1LV- 36/70/170KV, Ins. Class B, Ref. Std 1S:3156/1992, one end earthed type without fuse.

9) MRT tested Bi-direction check meter shall be mandatory

10) Separate MRT tested total solar meter to measure total solar energy shall be

- 11) All meters to be installed preferably at one location with separate identity marked. Prosumer has to pay monthly rent of main meter and solar meter if installed/ provided by EDG.
- 12) The primary neutral of the transformer is solidly earlier.
- 13) The consumer has to follow Net Metering Regulation 2019 of JERC notified dated. 24/7/2019 and its subsequent amendments if any as on date in this regard.
- 14) The consumer shall provide all safety equipments in order to prevent back feeding. Separate MCB's for AC&, DC along with Surge Protection Devices (SPD) to be provided. The wiring of AC&DC should be done in accordance with relevant IEC standard. The Single line diagram with bill of material of equipment installed to be submitted.
- 15) Applicant has to pay non-refundable Registration fee Rs. 500 (five hundred only)to the Electricity Department, Division I, Panaji in favour of "Chief Electrical Engineer".
- 16) The Consumer shall sign Power Purchase Agreement (PPA) with the Executive Engineer, Elect Division -I, Panaji Goa, before synchronizing with Grid system.
- 17) The tariff applicable for solar Net surplus at the end of settlement period shall be decided as per Solar Policy 2017 amended as on 7/2/2019 at the date of

signing PPA or at the time of commercial operation whichever is later. The Average Power Purchase Cost (APPC) rate shall be Rs. 2.93/ KWH as per notified tariff order of JERC for Financial Year 2019-20.

- 18) Separate earthing shall be done for solar panel, for AC and DC system in accordance with IS 3043-1986.
- 19) The lightening rod to be provided for solar installation with proper earthing using GI strip not less than 3 mm thick or Alluminum strip of required size or 10 sq. mm or above multi-strand copper wire.
- 20) The Prosumer has to submit completion report of installation comprising of single line diagram, Invertor catalog, Manufacture test report, Panel catalog and all relevant IEC certification with Anti islanding certificates, Meter test certificate, certificate of earthing resistance values issued by Licensing Electrical Contractor.
- 21) The details of Invertor/ Generator installed if any to be submitted and required 4 pole/2poleIsolation/Change over switch to be provided.
- State Electrical Inspectors approval is required to be obtained for Grid Connectivity.

Compliance to above may please be intimated to MRT Division VIII of this Dept. for carrying out inspection.

The address and contact of the said Div. is Division VIII (MRT), Vidyut Bhavan, Aquem, Margao Goa. Contact No. 0832-2734141 and Email eemrt8@gmail.com

Any errors or omissions observed subsequent to issue of this approval will be at the risk and consequences to be faced by the party.

Yours's faithfully.

(Reshma Mathew) Chief Electrical Engineer

Copy to: -

- 1) The Superintending Engineer, Circle -II (North), Electricity Department, Panaji, Goa.
- 2) The Executive Engineer Division -I, Electricity Department Panaji Goa, with a direction to maintain system / grid so as uninterrupted evacuation of solar power is maintained.
- 3) The Executive Engineer, Division VIII (MRT), Electricity Department, Margao, Goa.
- 4) the Nodal Officer Electricity Department, O/O Chief Electrical Engineer, Panaji, Goa.
- 5) The Member Secretary, Goa Energy Development Agency. 5th floor, Goa IDC Building, near Passport Office, Patto, Panaji - Goa.

OFFICE OF THE CHIEF ELECTRICAL ENGINEERS INL. RING & JECHNICA ELECTRICITY DEPARTMENT GOVERNMENT OF GOA

VIDYUT BHAVAN 3<sup>rd</sup> FLOOR PANAJI - GOA

Di L'M GOA 32 2249 Inward No.....

Contact No. 0832-2224680,2222354/2426986(FAX)/Email ID: ecc-elec.goa@nic.in No.101/1/Solar/SPD/CEE/Tech/2019-20/ 1315

17/10/2019.

The Registrar, Goa University, Bambolim Goa - 403005.

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Sub: Grid connectivity for 240kWp Solar PV Rooftop system, Net Metering at The Registrar, Goa University, Bambolim Goa. Ref: No 1/212/GEDA/19-20/321 dated 31/07/2019.

Sir,

Provisional approval is hereby given to your installation bearing C.A. No. 60000801385 (IITI) at 11kv to install solar PV rooftop solar power generation restricting to contract demand of 240 kWp, at The Registrar, Goa University, Bambolim Goa, comes under jurisdiction of Division I, subject to the following conditions:

- 1) The Grid connection shall be on "Net Metering" basis.
- 21 The inverter catalogue, manufacturestest report, IEC certificate and other relevant details are to be submitted to the department and the same are required to be checked by MRT for its correctness of protection logic and automatic isolation and islanding protection at site.
- All equipments should be tested from Accredited National Laboratories.
  - The invertor shall have inbuilt automatic isolation and islanding protection on failure of grid supply. Apart from this, there should be back up islanding scheme to avoid accidental injection to grid by back feeding which can cause loss of life & property. The backup islanding scheme should be shown in the SLD and also explained in detail with recommended setting after studying the protection scheme of EDG. The report and study on protection system behavior during fault condition on EDG line should also be submitted. This is essential for reliable and timely tripping of solar supply from the grid during line fault in EDG system
- 5) The provision for DG supply if any, should be shown on existing SLD. To avoid back feeding in EDG Network due to Solar Generation on D. G. set manual/automatic 4-pole changeover switch shall be installed for D. G. changeover.
- 6) Separate isolating switch 4 pole with neutral isolator disconnecting switch as per relevant capacity having locking arrangement to be provided by the party.

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signing PPA or at the time of commercial operation whichever is later. The Average Power Purchase Cost (APPC) rate shall be Rs. 2.93/ KWH as per notified tariff order of JERC for Financial Year 2019-20.

- 18) Separate earthing shall be done for solar panel, for ACand DC system in accordance with IS 3043-1986.
- 19) The lightening rod to be provided for solar installation with proper earthing using GI strip not less than 3 mm thick or Alluminum strip of required size or 10 sq. mm or above multi-strand copper wire.
- 20) The Prosumerhas to submit completion report of installation comprising of single line diagram. Invertor catalog, Manufacture test report, Panel catalog and all relevant IEC certification with Anti islanding certificates. Meter test certificate, certificate of earthing resistance values issued by Licensing Electrical Contractor.
- 21) The details of Invertor/ Generator installed if any to be submitted and required 4 pole/ 2poleIsolation /Change over switch to be provided.
- 22) State Electrical Inspectors approval is required to be obtained for Grid Connectivity.

Compliance to above may please be intimated to MRT Division VIII of this Dept. for carrying out inspection.

The address and contact of the said Div. is Division VIII (MRT), Vidyut Bhavan, Aquem, Margao Goa. Contact No. 0832-2734141 and Email eemrt8@gmail.com

Any errors or omissions observed subsequent to issue of this approval will be at the risk and consequences to be faced by the party.

Yours's faithfully,

(Reshma Mathew)
Chief Electrical Engineer

Copy to: -

- 1) The Superintending Engineer, Circle -II (North), Electricity Department, Panaji, Goa.
- 2) The Executive Engineer Division -I, Electricity Department, Panaji Goa, with a direction to maintain system / grid so as uninterrupted evacuation of solar power is maintained.
- 3) The Executive Engineer, Division VIII (MRT), Electricity Department, Margao, Goa.
- 4) The Nodal Officer Electricity Department, O/O Chief Electrical Engineer Panaji, Goa.
- 5) The Member Secretary, Goa Energy Development Agency. 5th floor, Goa IDC Building, near Passport Office, PattoPanaji Goa.

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No.1/212/GEDA/19-20/5-43
Office of the Member Secretary
Goa Energy Development Agency
5th Floor, Goa – IDC Building
Patto, Panaji, Goa – 403001.

Date: 18 10/2019

To The Director Agrawal Renewable Energy Pvt. Ltd, Anand Bhavan, Old Station Road, Margao, Goa.

Sub: Revision of Building wise Solar Rooftop Installation at Goa University.

Sir,

This has reference to your letter dated 28/09/2019 on the above cited subject matter. In this regard it is to inform you that due to the shadow effect safety aspect during the maintenance and inclination angle which results in deviation of power generation, you are now hereby directed to install the 605kWp solar power plant at the following building at Goa University, Bambolim. The details alongwith capacity of the solar power plant is as below;

Building Name	Capacity (kWp)
Library	40
Faculty Block A	60
Faculty Block B	40
Faculty Block C	40
Silver Jubilee Hall	60
Faculty Block E	200
Faculty Block F	165
	Library Faculty Block A Faculty Block B Faculty Block C Silver Jubilee Hall Faculty Block E

TOTA: 605 KWP

Yours faithfully,

(Sanjeev Joglekar) Member Secretary (GEDA)

Copy for information to:

The Registrar, Goa University, Bambolim, Tiswadi, Goa.

- 2. The Director, Directorate of Higher Education, Porvorim, Goa.
- 3. Concerned file.
- 4. Guard file.

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No.1/212/GEDA/19-20/37/ Office of the Member Secretary Goa Energy Development Agency 5th Floor, Goa - IDC Building Patto, Panaji, Goa - 403001. Date: 14/08/19

To The Director Agrawal Renewable Energy Pvt. Ltd., Anand Bhavan, Old Station Road, Margao.

### WORK ORDER

Sub: Work order for design, supply, installation, testing, commissioning of aggregate capcity of 605kWp Grid connected Solar Rooftop PV power plants including operation & maintenance for 5 years at Goa University, Bambolim, Goa.

1/212/2018-19/GEDA/SPVRT-GU/834 Dated Ref Tender No. 05/03/2019.

This has reference to above reffered tender and your offer submitted for above said tender has been accepted by this Office. We are pleased to award you the work order for design, supply, installation, testing, commissioning of aggregate capcity of 605kWp Grid connected Solar Rooftop PV power plants including operation & maintenance for 5 years at Goa University, Bambolim, Goa alongwith supply & installation of 11kV & 33kV Cubicle Metering for tendered amount of Rs.2,67,33,500.00 (Rupees Two Crore Sixty Seven Lakh Thirty Three Thousand Tive Hundred only) which is 29.28% below the estimated cost of Rs.3,78,00,000.00 but to the tender.

2. You are requested to attend this office to complete the formal agreement in indiately. The above work should be completed within 180 days from the date odf issue of this Order.

3. The Warranty/Guarantee for the said 605kWp Solar PV Grid Connected plant will be 5 years from the date of commissioning. The SPV module shall be guaranteed life of 25 years from the date of commissioning. After the successful installtion & commissioning, you are required to operate & maintained the 605kWp Solar power plant for a period of 5 years as per the guidelines mentioned in the said tender.

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Sir,

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- 4. You are also required to supply & install 11kV & 33kV Cubicle Metering from the approved contractor of the Goa Electricity Department as per specification mentioned in the Tender. The warranty for the Cubicle Metering will be 1 year from the date of commissioning. If the said work of Cubicle Metering is not required as per the norms of Electricity Department then the said tendered amount i.e. Rs.7,00,000.00 & Rs.5,50,000.00 for 11kV & 33kV Cubical Metering respectively will be reduced thereof.
- 5. For the benefit of visitors and general public, you are required to erect an attractive and all weather Description Board with a concise write-up of the 605kWp Solar PV Grid Connected power plant alongwith illustrative diagrams showing the linkage and working of each of its components at the location approved by the GEDA.
- 6. You are required to comply formalities within the 10 days of this work order as required under the provisions of Contract Labour (Regulation & Abolition) Act 1970 and Rules there under from the Labour Department, Panaji. The Health Safety Manual shall be strictly followed and implemented on site.
- 7. The Scope of Work, General Terms & Conditions, Technical Specifications, Terms of Payment and all other conditions specified in the Tender Document No. 1/212/2018-19/GEDA/SPVRT-GU/834 Dated 05/03/2019 should be strictly followed & implemented.

Yours faithfully,

Lsm

(Sanjeev Joglekar)

Member Secretary (GEDA)

Copy for kind information to:

- 1. The Registrar, Goa University, Bambolim, Tiswadi, Goa.
- 2. The Director, Department of Non-Conventional Sources of Energy, 5th Floor, Goa-IDC, Patto, Panaji, Goa.
- 3. The Commissioner of Labour & Employment, Panaji, Goa.
- 4. Concerned File.
- 5. Guard File.

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No.1/212/GEDA/20-21/ Szsoffice of the Member Secretary Goa Energy Development Agency 5th Floor, Goa – IDC Building, Patto, Panaji, Goa -403001.

Date: 20 | 11 | 2020

To Date: 20-11-2

The Registrar

Goa University

Bambolim, Tiswadi, Goa.

Sub: Installation & commissioning of 605kWp Grid Connected Rooftop Solar PV Power Plant at Goa University, Bambolim, Goa.

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This is to inform you that the installation of 240kwp & 365kWp Grid connected rooftop solar PV power plant at Goa University, Bambaolim has been completed. Electricity Department has installed the bidirectional meters on the 22/10/2020 and the said solar power plants have been connected to the grid.

Thanking you,

Yours faithfully,

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(Sanjeev Joglekar) Member Secretary (GEDA)

Copy for information to:

- 1. The Director, Directorate of Higher Education, Porvorim, Goa.
- 2. Office Copy.
- 3. Guard Copy.

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DIS CUSSED 3-4/11/2020

38// GOVERNMENT OF GOA OFFICE OF THE EXECUTIVE ENGINEER, ELECT. (O&M), 2nd FLOOR, VIDYUT BHAVAN, PANAJI - GOA. Email:ee1-elec.goa@nic.in Tel: :0832-2426421/2416022 Date: 16/10/2020 EE/Div-I/Tech-98/20-21/29/7 To, 以把百1874° The Executive Engineer, Elect. Division-VIII (MRT), 2nd floor, Vidyut Bhavan, Aquem, Margao, Goa-403601. Sub: Grid connectivity for Solar PV Rooftop system with Net Metering Inspection of HT Installations. Ref: No. EE-VIII (MRT)/HT/GEN-13/503/20-21, dated 11/08/2020. Sir, With reference to the above cited letter, this is to inform you that the inspection has been carried by the Sub Divisional Engineer of Solar Power Plant of the following HT Installations. HTC-180, CA No. 60000801385 The Registrar, Goa University, Bambolim, Tiswadi, Goa in the jurisdiction of Sub Division-III, Bambolim. HTC-273, CA No. 60000803217 The Registrar, Goa University, Bambolim, Tiswadi, Goa in the jurisdiction of Sub Division-IV, Taleigao. You are kindly requested to provide Bi-directional meter for the above HT installations in order to release the solar connection. Yours Faithfully Executive Engineer, Elect. Div-I (O&M), Panaji Copy to:-The Registrar, Goa University, Bambolim.....for your kind information. The Sub Divisional Engineer, SD - III, Bambolim / IV, Taleigao......for information. Tech-98(51) / 98(52). 3)



## Office of the Executive Engineer Electricity Department, Division-VIII (MRT)

2<sup>nd</sup> floor, Vidyut Bhavan, Aquem, Margao, Goa – 403 601 Email: eemrt8@gmail.comPh: +91-832-2734141, 8380015008

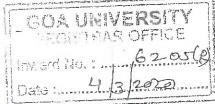


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No.: EE-VIII (MRT)/Tech-15(HT)/ 1853 /19-20

Date: 2/3/202

The Chief Electrical Engineer Vidhyut Bhavan 3<sup>rd</sup> Floor, Electricity Department, Panaji- Goa



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Sub.: - Grid connectivity for 240KWp Solar Rooftop system on Net metering for the Goa University, Bambolim (11KV)

Ref.: No: 101/1/solar/SPD/CEE/TECH/2019-20/1315 dated 13/10/2019

Sir,

With reference to above, this is to inform you that the 240KWp Solar Rooftop system set up by the consumer Goa University(IIKV) was inspected on 18/02/2020 by MRT and copy of the report is enclosed herewith for reference.

It is to be noted that the applicant has installed 5 nos of independent rooftop solar generation system at 5 different premises/location (60KWp -2nos. & 40KWp-3nos.), each having independent solar generation meter installed at the respective premises/location. It is necessary to provide single solar generation meter for the ease of recording readings. The applicant has also commissioned D.G. set at the premises but has not produced a copy of the permission granted by the CEE for energization of the D.G. set.

The installation is serviced through liky supply line and is having 2 Transformers at site with one 11KV outdoor type combined CTPT unit. As per requirement, the applicant has to be provide check/standby metering.

The applicant has to comply the requirements before installation of bi-directional meter.

Yours faithfully,

(Diogo J. Coutinho) Executive Engineer Elect. Div-VIII(MRT), Margao

Encl.: As above

Copy to

D'The Registrar, Goa University, Bambolim.......

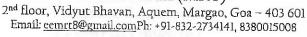
2) The Executive Engineer, Div-I, Panaji....... For information and necessary action. The existing IIKV combined CTPT unit is consisting of 3PT's and 2CT's. The same has to be replaced with 3PT's and 3CT's for the installation of bidirectional meter.

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## Office of the Executive Engineer Electricity Department, Division-VIII (MRT)





## ON SITE CHECKLIST FOR HT SOLAR INSTALLATIONS

Name of the consumer:	The Registrar, Goa University	Category:	THT
Contract Account No.:	60000801385	Sanctioned load:	800KVA
Division:	I- Panaji	Solar Inverter capacity:	240KWp
Sub-Division:	III- Bambolim	Date of Inspection:	18/02/2020

THE BUILDONNIE		
Sr. No.	Observation	Comment
1.	Protection logic of invertor at site: Automatic Isolation and Islanding protection of invertor at site:	Checked at site and found ok
2.	Earthing for AC system:	Provided
3.	Earthing for solar strings DC system:	Provided
4.	Earthing for Surge Protection Device:	Provided
5.	4-pole isolating switch with inter locking arrangement:	Provided
6.	MRT tested Solar meter :	Provided
7.	AMR facility for solar meter:	TVACUE CONTRACTOR CONT
8.	MRT tested bi-directional meter with AMR facility	Provided. Make: Secure.Sr.no. Goa39971 & Goa39972
9	Surge protection devices:	Provided
10.	3-phase MCCB for AC	Provided
11.	Wire termination	As per Guidelines
12.	Technical details of Invertors :	Make: Growatt. Submitted
13.	Test report of Invertor	Submitted
14.	Technical details of Solar panel:	Submitted

### Remarks:

It is to be noted that the applicant has installed 5nos of independent rooftop solar generation system at 5 different premises/location (60KWp -2nos. & 40KWp-3nos.), each having independent solar generation meter installed at the respective premises/location. It is necessary to provide single solar generation meter for the ease of recording readings. The applicant has also commissioned D.G. set at the premises but has not produced a copy of the permission granted by the CEE for energization of the D.G. set. The installation is having IIKV supply with two transformers at site with one IIKV outdoor type combined CTPT unit. As per requirement, the applicant has to provide check/standby metering.

(MRT Official)

Holmunde

10/8/2

2362(1)

No.1/212/GEDA/19-20/32/ Office of the Member Secretary Goa Energy Development Agency 5th Floor, Goa-IDC Building, Patto, Panaji, Goa – 403001. Date: 3/(07/20/9

The Chief Electrical Engineer Electricity Department, Vidyut Bhavan, Panaji, Goa.

Sub: Application for the grid connectivity for the 240kWp Solar PV Power plant with Net Metering System.

Madam,

This office in receipt of letter from Registrar, Goa University, for seeking the grid connectivity and approval for installation of 240kWp Solar Power Plant under Net Metering to be installed at Goa University, Bambolim. The copy of the duly filled application form is forwarded to your office for issuing grid connectivity under Net Metering system.

In view of above, you are requested to kindly look into the matter and provide the grid connectivity for the 240kWp Solar Power Plant with Net Metering System.

Yours faithfully

25,00

(Sanjeev Joglekar) Member Secretary (GEDA)

Enclosure: As above.

Copy for information to:

Registrar, Goa University, Bambolim, Goa.

Concern file.

Guard file

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14/ FA e/152 1, 0832/2437401 Engg & Tech Dio 22/07/19 Note. Installation & Commissioning of 240 KWp Connected roof top, solar IPV power Plant at G. U. Bombolim God 1 The member Secretary, GEDA, Show: Sonjeel Togle Kar wide their letter bearing, NO. 1/212/GEDA! 19-20/252 dated 3/7/2019 had requested the University to endorse the application form duly filled submitted by them for forwarding to the Chief Electrical The duty filled forms, in duplicate of requiry are enclosed in the folder for Signature of R' plean. Submitted. (V.P. Bandodkas) May kinds be filled to be subrulls to DST. R Signature is also PAPR The details in respect of phone ros. and email id are condicated in the enclosed Joen and placed for signature please. Register - 4 New Joseph Tig AECS anlied and flar love

No.1/212/GEDA/19-20/252 1748(P) Office of the Member Secretary Goa Energy Development Agency

5th Floor, Goa - IDC Building, Patto, Panaji, Goa -403001.

Date: 03/07/2015

The Registrar Goa University

Bambolim, Tiswadi, Goa.

Sub: Installation & commissioning of 240kWp Grid Connected Rooftop Solar PV Power Plant at Goa University, Bambolim, Goa.

Madam,

As you are aware that, Goa Energy Development Agency is installing the aggregated capacity of 240kWp Solar Grid Connected Power plant on the roof of the Faculty Block A, B, C, Admin Building & Library Building and 365kWp solar power plant on the roof of the Faculty E & F respectively at Goa University, Bambolim, Goa. In order to connect the said plants to the grid and as per the Joint Electricity Regulatory Commission (JERC) Regulation we have to obtain the approval of the Electricity Department.

In view of above, please find enclosed herewith duly filled applications form for your kind perusal and endorsement, to enable this office for the onward submission & to obtain approval from Electricity Department.

Thanking you,

Yours faithfully,

(Sanjeev Joglekar) Member Secretary (GEDA)

Enclosure: As above.

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To The Chief Electrical Engineer Electricity Department, Vidyut Bhavan, Panaji, Goa.

I herewith apply for a Solar Energy Net Metering Connection at the service connection for the Solar Power Project of which details are given below:

SI.	Details Required	Details Furnished
1.	Name of applicant	Registrar
2.	Address of the applicant	Goa University, Bambolim
3.	Service connection number	CA No. 60000801385
4.	If there is Electricity Connection in the name of the applicant, please provide details	Yes. Copy of Electricity Bill enclosed
5.	Is it for an individual premises or for a Group/Society	Government Premises
6.	Land Line Number(s)	8669609005
7.	Mobile Phone Number	8669609300
8.	Email Contact if available	registra e unigoa ac in
9.	Solar Plant Capacity kWp	240kWp
10.	Solar Inverter make & type	Delta String Inverter
11.	Solar Project inverter has automatic isolation protection	Yes
12.	Has a Solar Generation Meter been installed (Y/N)?	Will be arranged by the supplier and installed by the Distribution Licensee
13.	Expected date of commissioning of Solar project	180 days from the date of approval from Electricity Department
14.	Concerned safety requirement fulfillment (Y/N)	Will be fulfilled
15	Any other information desired by the Distribution Licensee	NA

## **DECLARATION**

I do hereby declare that the information furnished above is true to my knowledge and belief.

Signature with Name PAPF-4.V.RE

Position if on behalf of a Group or a Society:

Address:

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The Chief Electrical Engineer Electricity Department, Vidyut Bhavan, Panaji, Goa.

I herewith apply for a Solar Energy Net Metering Connection at the service connection for the Solar Power Project of which details are given below:

\$ .	Details Required	Details Furnished
1	Name of applicant	Registrar
2.	Address of the applicant	Goa University, Bambolim
3	Service connection number	CA No. 60000803217
4	If there is Electricity Connection in the name of the applicant, please provide details	Yes. Copy of Electricity Bill enclosed
5.	Is it for an individual premises or for a Group/Society	Government Premises
ф.	Land Line Number(s)	8669609005
7	Mobile Phone Number	8669609300
8.	Email Contact if available	registre @ unigoa-acin
9	Solar Plant Capacity kWp	365kWp
<b>1</b> Φ.	Solar Inverter make & type	Delta String Inverter
1.	Solar Project inverter has automatic isolation protection	Yes
12.	Has a Solar Generation Meter been installed (Y/N)?	Will be arranged by the supplier and installed by the Distribution Licensee
13.	Expected date of commissioning of Solar project	180 days from the date of approval from Electricity Department
14.	Concerned safety requirement fulfillment (Y/N)	Will be fulfilled
15	Any other information desired by the Distribution Licensee	NA

### DECLARATION

I do hereby declare that the information furnished above is true to my knowledge and belief.

Signature with Name:

Position if on behalf of a Group or a Society:

Address:

REGISTRAR Goa, University Taleigao Plateau Goa. 403 206

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GU/9/Engg & Tech Div/2019-20///4

Date: - 29/07/2019

To, Member Secretary (GEDA), Office of the Member Secretary Goa Energy Development Agency 5th Floor, Goa- IDC Building, Patto, Panaji, Goa 403001.

Sub: Installation & commissioning of 240KWp Grid connected Rooftop Solar PV Power plant at Goa University, Bambolim -Goa.

Ref No: - No. 1/212/GEDA/19-20/252 dated 03/07/2019

Sir/Madam,

Please find enclosed herewith duly filled application forms for Installation & commissioning of 240KWp Grid connected Rooftop Solar PV power plant at Goa University.

Thanking you,

Yours faithfully

V. L sawkar

University Engineer

Copy to:-

- 1. Guard File
- 2. Concerned file
- 3. PA to R

GOVERNMENT OF GOA
OFFICE OF THE EXECUTIVE ENGINEER,
ELECT. (O&M), 2nd FLOOR,

VIDYUT BHAVAN, PANAJI – GOA.

Email:ee1-elec.goa@nic.in Tel: :0832-2426421/2416022

EE/Div. I/Tech-98(51)/20-21/159

Date: 27/07/2020

The Registrar, Goa University, Bambolim, Goa – 403005.

120 6 CP) 3117/20

Sub: Grid connectivity for 365 KWP Solar PV Rooftop system with Net Metering of The Registrar, Goa University at Bambolim, Goa. Ref: No. 101/1/solar/SPD/CEE/Tech/2019-20/159, dated 11/05/2020.

Sir,

With reference to the subject matter, you are called upon to office of the undersigned during working hours for signing of the PPA as per the prescribed format and departmental procedure and also submit the payment details if made as mentioned in the final approval at condition no. 1.

Yours Faithfully

Executive Engineer,

Elect. Div -I (O&M) Panaji - Goa.

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# NDIA NON JUDICIAL

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Place of Vendor Panaji
Licence No. AC/STP/VEN/102/2003

Sign, of Vendor Sign

AGREEMENT

This Agreement is entered into at (location) <u>Parati</u>, Goa, on this (date) <u>06</u> day of (month) <u>August</u> (year) <u>2020</u>.

#### BETWEEEN

The Electricity Department, Goa (EDG), with its registered office located at 3<sup>rd</sup> floor, Vidyut Bhavan, Panaji, Goa (hereinafter called the "EDG") of the ONE PART.

REGISTRAR
Gos University
Talsigao Plateau
Gos 463 206

Shri Y.V. Reddy, Registrar, Goa University, Barr bolim, Goa having its Consumer Contract Account No.60000803217 (hereinafter referred to as the "Prosumer" (Producer-cum-Consumer) which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors, executors, administrators and permitted assignee) of the OTHER PART.

The EDG and Prosumer are individually referred to as "Party" and collectively as "Parties".

WHEREAS the Prosumer intends to connect and operate the "Solar Photo Voltaic Roof Top/Ground Mounted" (SPV) system with the EDG HT/LT Distribution system for sale of Solar Power to the EDG in terms of the Solar Power as per the Joint Regulatory Commission for the State of Goa and Union Territories Grid Connected Solar Power Regulations -2015 and a samended from time to time (hereinafter referred to as "JERC Regulations");

AND WHEREAS, the Prosumer intends to install a SPV system of 365kWp capacity on the roof top/ground mounted of the premises situated at Bambolim, Goa and having the Consumer Number (Cons. No) 60000803217 in the same premises under Sub-Division ..., in the Jurisdiction of Division-I of the EDG with cor tract demand 1501KVA;

AND WHEREAS, the Prosumer intends to self-consume the power generated from the SPV system and feed excess power to the EDG network which shall be recorded in the bi-directional meter installed by the Prosumer in their premises from the date of declaration for commercial operation of the SPV plant;

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AND WHEREAS, the application has been duly rerified and forwarded by the Goa Energy Development Agency (GEDA), being the agency designated by the Joint Electricity Regulatory Commission. (Hereinafter referred to as "JERC") to the EDG;

AND WHEREAS, the EDG has verified the application after verification and forwarded by GEDA and agrees to purchase net energy exported by such SPV system at the Tariff as approved by JERC on year to year basis and as approved by EDG. However, Agreement shall come into operation from the date of commercial operation (COD) of the SPV Plant.

Now, therefore, this Agreement witnesses and the parties hereto hereby mutually agree as under:-

- Definitions, Abbreviations and Interpretations shall be as per JERC Regulation.
- 2. Technical and Interconnection Requirements:

  Prosumer shall,
- 2.1. comply with the standards and conditions in respect of integrating the SPV system with the grid/distribution system.
- 2.2. connect the SPV system to the EDG distribution system and shall be bound by requirements of JERC/State Gril and Distribution Code as amended from time to time.
- 2.3. prior to connection of SPV system to the EDGs distribution system, make provision of an inverter having an automatic inbuilt isolation device which should cut-off the SPV system in the event of grid failure.
- 2.4. Provide external manual isolation mechanism with suitable looking facility so that the SPV system does not back-feed into the EDG's network in case of power outage of the EDG's distribution system and it

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- DC Injection: Photovoltaic system shall not inject DC power more. than 0.5% of full rated output at the interconnection point or 1% of. n rated inverter output current into distribution system under any operating conditions.
  - Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained. g)
- The SPV system, in the event of power outage or voltage or frequency. variations, shall island/disconnect itself automatically and shall not 2.8 inject power to the EDG distribution systems as per IEC standards within the stipulated period.

## 3.

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- Prosumer shall comply with the Central Electricity Authority (Measures 3.1 Relating to Safety and Electricity Supply) Regulations, 2010.
- Prosumer agrees that the design, installation, maintenance and operation of the SPV system are performed n a manner conducive to 3.2 the safety of the SPV system as well as the EI Gs distribution system.
  - Solar Power Generator shall install a main switch or isolator with Double pole / Triple pole with neutral iso ating disconnect switches with locking arrangement near the Energy Feed-In Meter, which is accessible to the EDG and with which the Prosumers Solar Power Plant could be disconnected from the EDGs distrit ution system.
    - If the Prosumer's SPV system either causes damage to and/or produces adverse effects affecting other distribution systems, consumer's or EDG assets, the Prosumer shall disconnect SPV system immediately from the distribution system upon direction from the EDG and correct the problem at its own expense prior to reconnection. The Prosumer however, shall continue to get the normal power supply from the EDGs

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- shall be accessible for the EDG to operate, if required, during maintenance / emergency conditions.
- 2.5. install all the equipment of SPV system compliant with relevant International (IEEE/IEC) and Indian standards (BIS).
- 2.6. design, engineer and construct and operate the SPV system with reasonable diligence subject to all applicable Indian laws, rules & regulations as amended from time to time, and regulation having the force of law.
- 2.7. adhere to the following power quality measures as per the International and Indian standards and/or such other measures stipulated by the JERC Regulation namely;
  - a) Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.
  - b) Synchronization: SPV system shall be equipped with grid frequency synchronization device. Every time the generating station shall be synchronized to the electricity system. It shall not cause voltage fluctuation greater than +/- 5% at the point of interconnection.
  - c) Voltage at the injection point shall be in the operating range of 80% to 110% of the nominal connected voltage. Beyond the clearing time of 2 seconds, the solar plant shall not isolate itself from the grid.
  - d) Flicker: Operation of Photovoltaic system shall not cause voltage flicker in excess of the limits stated in the relevant sections of IEC 61000 standards or other equivalent Indian standards, if any.
  - e) Frequency: When the Distribution system frequency deviates outside the specified conditions (50.5 Hz on upper side and 47.5 Hz on lower side), the SPV system shall shift to island mode. There shall be over and under frequency trip functions with clearing time of 0.2 seconds.

distribution system in the event of isolation of the SPV system from the grid.

- 3.5 The Prosumer shall be solely responsible for any accidents to human beings/animals whatsoever (fatal/non-fatal/departmental/non-departmental) that may occur due to back feeding from the SPV plant when the grid supply is off.
- The EDG reserves the right to disconnect the SPV system at any time in the event of SPV power plant damaging to its grid or meter, etc. or to prevent any accident or damage.
- 3.7 Rest of the safety measures as per clause 24 of the JERC Regulations.

## Clearances and Approvals

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The Prosumer agrees to obtain all the statutory approvals and clearances if applicable before connecting the SPV system to the network of the EDG.

## Access and Disconnection:

The EDG shall have access to metering equipment and disconnecting other devices of SPV system, both automatic and manual, at all times. In emergency or outage situation, where there is no access to the disconnecting devices, both automatic and manual, such as a switch or breaker, the EDG may disconnect it's distribution system from the SPV

## Liabilities:

system.

The Prosumer agrees that the EDG shall not be responsible for any damages to his solar power plant resulting from parallel operation with the grid and that the EDG shall not be liable to pay any such damages or compensation to the Prosumer.

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- 6.2 The EDG and Prosumer shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or loss of goodwill, or for indirect, consequential, incidental or special damages, including, but not limited to, punitive or exemplary damages, whether any of the said liability, loss or damages a ise out of the contract, or otherwise.
- 6.3 The Subsidy/Incentives to the Prosumer would be as per the State's Solar Policy 2017 and as amended from time to time.

#### 7 Tariff:

The solar Energy Tariff agreed upon between the EDG and the Prosumer under this Agreement is as detailed below:

- The feed in tariff for the settlement of net surplus energy credits outstanding at the end of the settlement period will be as per the Joint Electricity Regulatory Commission (JERC) approved solar tariff rates for the year or Average Pover Purchase Cost (APPC) as per current year Tariff Order of JERC whoever is lower. However, this Tariff will remain fixed for the period 5 (five) years and subsequently will be revised every five years and notified separately and will be applicable to all Prosumers with effect from the date of notification.
- b) Tariff/Price per kilowatt-hour: Rs.2,93 (Rupees Two and Paise Ninety Three only) and will be revised us per 7(a) above.
- c) Validity: This Agreement shall be in a force for Twenty-five (25) years from the date of commercial operation of the plant for the capacity commissioned on that date.
- d) If only a part of plant capacity is commissioned within the specified time, the solar tariff applicable shall be for the part capacity that is commissioned. The tariff for the balance part of un-commissioned

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project shall be fixed on its commissioning. Both Tariffs would be in the line with clause 7(a) of this Agreement.

The Prosumer shall not be entitled to claim compensation, if its SPV system is not in a position to inject surplus solar power generation to the EDG network on account of failure of power supply in the grid/network for whats ever reasons, such as line clear, load shedding and line faults etc., and no compensation shall be paid for the above reasons by the EDG.

The Prosumer shall be exempted from charges in respect of electricity banking, wheeling within the State of Goa, line losses and cross subsidy to the extent of the polar energy produced.

Billing and Payment:

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At the end of each Billing Cycle, the IDG shall take readings of imported and exported energy as recorded in the bi-directional service connection meter. The Prosumer shall be presented an **electricity bill** indicating the difference between the imported and exported energy (i.e. the net-imported energy). Such bill shall be raised at the consumer tariff applicable to the Prosumer's service connection, if the import is higher than the export of the energy.

If, during a billing cycle including any export surplus already available to the credit of the Prosumer at the beginning of the billing cycle or a credit of banked energy available, the energy exported exceeds the energy imported, the export surplus shall be carried over to the next billing cycle in kWh (electricity units) as a credit to be adjusted in the next billing cycle(s) for the unadjusted exported units in terms of energy units.

In case the Prosumer is under the arrbit of time of day tariff, as determined by the JERC from time to time, the electricity consumption in any time block (e.g. peak hours, off-peak hours, etc.) shall be first

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compensated with the electricity generation in the same time block. Any cumulated excess generation over consumption in any other time block in a billing cycle shall be accounted as if the excess generation occurred during off-peak time block.

- 8.4 A final settlement energy bill shall be prepared by the EDG at the end of each settlement period, after crediting the exported energy surplus (in kWh) under the Net Metering and in other service connections of the Prosumer within the State of Goa if the Prosumer opts for using Group Net Metering facility.
- 8.5 The energy exported to the Grid (measured in kWh) can only be utilized to offset the electricity consumption (measured in kWh) and not for adjustment of any other fees or charges levied by the EDG.
- The settlement period of overall export energy surplus shall be 1st April to 30th September and 1st October to 31st March. Adjusted net export energy surplusshall be purchased by the EDG at the rate agreed in this Agreement. The amount will be credited to the Prosumer's account within 30 days of issue of the bill. The EDG shall pay interest at the rate of 1.25% (One & Quarter Percent) per month (on per day basis) as late payment charges for any delay in payment for the net energy exported beyond 30 (Thirty) days period from the date of issue of the bill.
- 8.7 For payment of bill, a rebate of 2% (Two l'ercent) shall be allowed if the amount is paid to the Prosumer's account within five working days of issue of the bill. If payment is made beyond five working days but within thirty days of issue of bill, a rebate of 1% (One Percent) shall be allowed.
- 8.8 If the Energy Feed-In Meter becomes defective the Net Exported Energy for the days during which the meter is defective shall be computed as follows:

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' i	If the Prosumer has installed an Energy Feed-In Check Meter, the
	readings of that meter shall be used.
i	In the absence of an Energy Feed-In Check Meter or if that meter
	is also defective, it shall be the responsibility of the Prosumer to
- 1	repair /replace the meters at the carliest, failing which, billing
	shall be suspended for that period.
8,9	The Prosumer is to submit to EDG account of the power generated
	annually before the financial year end.
8.10	The Prosumer shall be billed on net metering upto sanction Load/
	Contract Demand such that anticipated generation in the year is not more than 100% of electricity consumption in previous 12 months.
ř	more than 100% of electricity consumption in provided 12
9	Metering:
9,1	The Prosumer shall install one Bi-directional meter for recording export
	and import of energy and separate Electronic Energy meter at the
	generating bus to measure total solar power generation.
9,.2	Prosumer shall test all the meters at MRT Division of the EDG. The meters
	shall be installed as per the JERC Regulations.
<b>9</b> .3	Prosumer may optionally install an Energy Feed-In Check Meter as its own
	cost.
9.4	Both, uni-directional and bi-directional meter shall be fixed in separate
	meter boxes in the same proximity.
9.5	The EDG shall arrange to test and seal all the energy meters for which
	Prosumer shall bear all the testing charges.
9.6	The Prosumer has to pay monthly Rent of the meters if installed/ provided
	by EDG.
9.7	All such installations shall have electricity meters with feature having load
	survey for 45 days data storage as proviced under JERC Regulations. All
	Installation with capacity of 25kW shall have an optical communication
	port and RS 232 port for exchanging da:a with the EDG. For plant size
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- 1MW and above, the communication shall be with State Load Caspateric Centre SLDC) in addition to the EDG.
- 9.8 All meters installed in such installation shall be having DLMS/COSEM protocol.

#### 10 Taxes and Duties

Tariff fixed under this Agreement shall be exclusive of taxes and duties on sale of power as may be levied by the EDG. Provided that the taxes and duties levied by the EDG / administration shall be allowed as pass through on actual incurred basis.

## 11 Term and Termination of the Agreement:

- 11.1 This Agreement shall be in force for a period of 25 years from the date of commercial operation of the SPV system unless terminated otherwise as provided hereunder.
- 11.2 Either Party to this Agreement shall have the right to terminate this Agreement at any time by serving a written notice of 60 (sixty) days in advance to the other party.
- 11.3 If the Prosumer commits any breach of the terms of this Agreement, the EDG shall serve a written notice specifying the breach and calling upon the Prosumer to remedy/ rectify the same within 30 (thirty) days or at such other period and in case of failure on the part of the prosumer to remedy/rectify the breach, this EDG shall at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, terminate this agreement by delivering the termination notice,
- 11.4 Upon termination of this Agreement, Prosumer shall disconnect the SPV system from the distribution system and intimate the same to the EDG.

12. Dispute, Change in Law and Supersession:

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REGISTRAR Goa University

- 12.1 Disputes in billing or payments shall be referred to the content of the Grievances Redressal Forum (CGRF) established under Sub-section (5) of section 42 of the Electricity Act 2003.
- 12.2 In case of any change in law during the tenure of this Agreement, the aggrieved party shall be required to approach the JERC for seeking approval of impact due to change in law. The decision of the JERC to acknowledge change in law and the date from which it shall become effective and to provide relief for the same shall be final and governing on both the parties.

## 13 Interpretation:

If any question arises relating to the interpretation of any provision of this Agreement, Solar Regulations and the Solar Tariff, the decision of the Appropriate Authority shall be final.

## 13.1 Where any Dispute

- (a) arises from a claim made by any party for any change in or determination of the tariff or any matter related to tariff or claims made by any party which partly or wholly relate to any change in the Tariff or determination of any of such claims shall result in change in the tariff; OR
- (b) relates to any matter agreed by the parties here to be referred to the JERC,

shall be referred to the JERC:

- 14. The original copy of this Agreement shall remain with the EDG and the duplicate thereof with the Prosumer.
- The parties hereto shall be bound by the JERC Regulations.

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REGISTRAR Goa University IN WITNESS WHEREOF, the parties here to have signed this Agreement on the day, month and year first hereinabove mentioned. SIGNED, SEALED AND DELIVERED BY Signature: Agrun Shri. The Executive Engineer Dibase Park, Electricity Department\_ Seal For and on Behalf of the Electricity Department, Goa. Date: SIGNED, SEALED AND DELIVERED BY Signature: MVRL Shri. Y. V. REDDY REGISTRAR Gos L niversity Seal Taleigao Plateau Goa 403 208 Date: For and on behalf of Prosumer dated By virtue of (Authority) WITNESSES: (Address)(Designation) (Signature) (Name)

1) SHRI KRISHNA V. NAIK GOOD University

Engle Tech Div. God University

2) SHEI RATARAM D. SAWANT