Office of the Executive Engineer
Electricity Department,
Division-VIII (MRT)
2nd floor, Vidyut Bhavan, Aquem, Margao, Goa – 403 601
Email: eemrt8@gmail.comPh: +91-832-2734141, 8380015008

"Cleanliness is next to Godliness"

No.: EE-VIII (MRT)/Tech-15(HT)/ 1853 /19-20 Date: 2/3/2020

To,
The Chief Electrical Engineer
Vidhyut Bhavan 3rd Floor,
Electricity Department,
Panaji- Goa

GOA UNIVERSITY
REGISTRAR OFFICE
Inward No.: 6205(8)
Date: 4/3/2020

ENGINEERING & TECHNICAL DIVISION
GOA UNIVERSITY
Inward No.: 2097
Date: 05/03/2020

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(11KV) 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 11KV 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: -
1) The Registrar, Goa University, Bambolim.....
2) The Executive Engineer, Div-I, Panaji..... For information and necessary action. The existing 11KV 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.

Office of the Executive Engineer
Electricity Department,
Division-VIII (MRT)
2nd floor, Vidyut Bhavan, Aquem, Margao, Goa – 403 601
Email: eemrt8@gmail.comPh: +91-832-2734141, 8380015008

ON SITE CHECKLIST FOR HT SOLAR INSTALLATIONS

Name of the consumer:	The Registrar, Goa University
Contract Account No.:	60000801385
Division:	I- Panaji
Sub-Division:	III- Bambolim

Category:	HT
Sanctioned load:	800KVA
Solar Inverter capacity:	240KWp
Date of Inspection:	18/02/2020

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:	
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 11KV supply with two transformers at site with one 11KV outdoor type combined CTPT unit. As per requirement, the applicant has to provide check/standby metering.

(MRT Official)

ENGINEERING DIVISION GOA UNIVERSITY
Inward No. 3206
Date 12/07/2020

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(52)/20-21/1590 Date:27/07/2020

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

GOA UNIVERSITY REGISTRY
1205(R)
31/7/20.

Sub: **Grid connectivity for 240 KWP Solar PV Rooftop system with Net Metering of The Registrar, Goa University at Bambolim, Goa.**
Ref: No. 101/1/solar/SPD/CEE/Tech/2019-20/158, 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.

Pl examine and speak to them and find out details
Y.V. Reddy 31/7

Urgent
EE 10/08/2020
AE (ES) → contract concerned
10/8/2020
10/08/2020

ENGINEERING & TECHNICAL DIVISION
GOA UNIVERSITY
Inward No. 3220
Date 10/08/2020

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(52)/20-21/ 1793 Date: 7 /08/2020.

To,
The Executive Engineer,
MRT Div-VIII,
Aquem, Margao-Goa.

Sub: **Grid connectivity for 240KWP Solar PV Rooftop system with Net Metering.**

Sir,

With reference to the subject matter, you are kindly requested to carry out the inspection of the said solar installation, details are as below:

Name of the Consumer	The Registrar, Goa University, Bambolim, Goa.
CA No.	60000801385
Sanctioned Load	800 KVA
Solar Installed Capacity	240 KWP
Category	HT
Date of Application	31/07/2019
Date of provisional approval	11/05/2020
Date of signing of agreement	06/08/2020
Payment details	Rs. 500/-

The solar system is installed and is ready for inspection.

Yours Faithfully

Executive Engineer,
Elect. Div –I (O&M) Panaji – Goa.

Copy to:
1) The Registrar, Goa University, Bambolim……for information.
2) The Assistant Engineer, SD-III, Bambolim…..for information and to follow up the matter with MRT, Margao.

TECHNICAL
Inward No. 3439
Date 14/10/2020

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(52)/20-21/ 8597 Date:29/09/2020

To,
The Executive Engineer,
Elect. Division-VIII (MRT),
2nd floor, Vidyut Bhavan,
Aquem, Margao, Goa-403601.

GOA UNIVERSITY
1942-R
05-10-2020

13/10
UE

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

Sir,

With reference to the above subject, it is to inform you that the final approval is granted for Grid connectivity to 240KWP Rooftop Solar PV power plant of The Registrar, Goa University, Bambolim vide letter no. EE/Div-I/Tech-98(52)/20-21/2568, dated 28/09/2020.

In this regard you are requested to conduct inspection. The Sub Divisional Engineer, SD-III(R), Bambolim has been instructed to coordinate the said inspection which may please be carried.

This is for your information and further needful.

14/10/2020
EE
AE(E)
14/10/2020

Yours Faithfully

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

Copy to:-
1) The Registrar, Goa University, Bambolim.....for your kind information.
2) The Sub Divisional Engineer, SD-III(R), Bambolim.....for necessary action.

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(52)/20-21/1790 Date: 07/08/2020.

To,
The Sub Divisional Engineer,
Sub-Div-III,
Bambolim-Goa.

Sub: Grid connectivity for 240KWP Solar PV Rooftop system with Net Metering of The Registrar, Goa University at Bambolim, Goa.
Ref: EE/Div-I/Tech-98(52)/20-21/1590, dated 27/07/2020.

With reference to the subject matter, you are instructed to carry out the plant inspection of The Registrar, Goa University and accordingly submit the inspection report as per format 5 prescribed in circular no. 101/1/solar/SPD/CEE/Tech/2019-20/1906, dated 31/10/2019.

Executive Engineer,
Elect. Div –I (O&M) Panaji – Goa.

Copy to: -
1. The Registrar, Goa University, Bambolim, Goa.....along with the copy of agreement.

10/08/2020

10/08/2020

Inward No. 3402
Date 01/10/2020

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

GOA UNIVERSITY
REGISTRAR OFFICE
Inward No. 18:91-R
Date: 30-09-2020

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

EE/Div-I/Tech-98(52)/20-21/ 2568 Date: 29/09/2020

ENGINEERING & TECHNICAL DIVISION
GOA UNIVERSITY
Inward No.
Date

To,
The Sub Divisional Engineer,
Sub-Div-III,
Bambolim-Goa.

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/ Non-departmental) 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.
2) The Chief Electrical Engineer, Electricity Department, 3rd Floor, Vidyut Bhavan, Panaji.
3) The Superintending Engineer, Electricity Department, Circle-II(N), Panaji.
4) The Member Secretary, Goa Energy Development Agency, 5th floor, Goa IDC Building, near Passport Office, Patto, Panaji - Goa.
5) Smt. Mohsina Khan, Junior Engineer.....alongwith copy of HT meter testing sheet of MRT.

01/10/2020
AE(E)

32/C

3872(R)
22/10/19

No.1/212/GEDA/19-20/543
Office of the Member Secretary
Goa Energy Development Agency
5th Floor, Goa – IDC Building
Patto, Panaji, Goa – 403001.
Date : 18/10/2019

ENGG. ... GOA UNIVERSITY
Inward No. 2281
Date 23/10/19

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;

Sr. No.	Building Name	Capacity (kWp)
1	Library	40
2	Faculty Block A	60
3	Faculty Block B	40
4	Faculty Block C	40
5	Silver Jubilee Hall	60
6	Faculty Block E	200
7	Faculty Block F	165

Total: 605 kWp

Yours faithfully,

(Sanjeev Joglekar)
Member Secretary (GEDA)

Copy for information to :

1. The Registrar, Goa University, Bambolim, Tiswadi, Goa.
2. The Director, Directorate of Higher Education, Porvorim, Goa.
3. Concerned file.
4. Guard file.

AE(E) pls spre on 23/10

Discussed 23/10 with D.E. on 24/
It is observed that GEDA I
canceled ADM Bldg site & taken
Silver Jubilee Hall for Solar Panel/Rooftop
power plant.

138/C

Inward No. 3481
Date: 23/10/2020

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-98/20-21/2917 Date: 16/10/2020

To,
The Executive Engineer,
Elect. Division-VIII (MRT),
2nd floor, Vidyut Bhavan,
Aquem, Margao, Goa-403601.

GOA ... (Registration)
Inward No. 2151(R)
Date: 22/X/20.

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.

1. HTC-180, CA No. 60000801385 The Registrar, Goa University, Bambolim, Tiswadi, Goa in the jurisdiction of Sub Division-III, Bambolim.
2. 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:-
1) The Registrar, Goa University, Bambolim.....for your kind information.
2) The Sub Divisional Engineer,
SD – III, Bambolim / IV, Taleigao.....for information.
3) Tech-98(51) / 98(52).

22/10/2020

EE 23/10/20
AE(E) 23/10/20

The required meters are already provided by the agency.
23/10/20

No.1/212/GEDA/20-21/ 825
Office of the Member Secretary
Goa Energy Development Agency
5th Floor, Goa – IDC Building,
Patto, Panaji, Goa -403001.
Date : 20/11/2020

GOA UNIVERSITY
REGISTRAR OFFICE
Inward No. 2541-R
Date : 20-11-2020

To
The Registrar
Goa University
Bambolim, Tiswadi, Goa.

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

Sir

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,

(Sanjeev Joglekar)
Member Secretary (GEDA)

Copy for information to:
1. The Director, Directorate of Higher Education, Porvorim, Goa.
2. Office Copy.
3. Guard Copy.

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(52)/20-21/ 8597 Date:29/09/2020

To,
The Executive Engineer,
Elect. Division-VIII (MRT),
2nd floor, Vidyut Bhavan,
Aquem, Margao, Goa-403601.

GOA ... 1942-R 05-10-2020

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

Sir,

With reference to the above subject, it is to inform you that the final approval is granted for Grid connectivity to 240KWP Rooftop Solar PV power plant of The Registrar, Goa University, Bambolim vide letter no. EE/Div-I/Tech-98(52)/20-21/2568, dated 28/09/2020.

In this regard you are requested to conduct inspection. The Sub Divisional Engineer, SD-III(R), Bambolim has been instructed to coordinate the said inspection which may please be carried.

This is for your information and further needful.

Yours Faithfully

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

Copy to:-
1) The Registrar, Goa University, Bambolim.....for your kind information.
2) The Sub Divisional Engineer, SD-III(R), Bambolim.....for necessary action.

(4)

ENVIRONMENT & TECHNICAL DIVISION
GOA
Inward No. 3459
Date 22/10/2020

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(52)/20-21/283 Date: 12/10/2020

To,
The Executive Engineer,
Elect. Division-VIII (MRT),
2nd floor, Vidyut Bhavan,
Aquem, Margao, Goa-403601.

GOA UNIVERSITY
2107(R)
Inward
Date 19/10/20

Sub: Grid connectivity for 365KWP Solar PV Rooftop system with Net Metering of The Registrar, Goa University, Bambolim-Goa.

Sir,

With reference to the above subject, it is to inform you that the final approval is granted for Grid connectivity to 365KWP Rooftop Solar PV power plant of The Registrar, Goa University, Bambolim vide letter no. EE/Div-I/Tech-98(52)/20-21/2739, dated 12/10/2020.

In this regard you are requested to conduct inspection. The Sub Divisional Engineer, SD-IV, Taleigao has been instructed to coordinate the said inspection which may please be carried.

This is for your information and further needful.

Yours Faithfully

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

Copy to:-
1) The Registrar, Goa University, Bambolim.....for your kind information.
2) The Sub Divisional Engineer, SD-IV, Taleigao.....for necessary action.

No.1/212/GEDA/19-20/252

Office of the Member Secretary
Goa Energy Development Agency
5th Floor, Goa – IDC Building,
Patto, Panaji, Goa -403001.
Date : 03/07/2019

To
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.

ENGINEERING & TECHNICAL DIVISION
GOA UNIVERSITY
Inward No. 176
Date 10/07/19

10/C

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:

Sl.	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	registrar@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 : Y V Reddy 23/1/17
PROF. Y. V. REDDY

Position if on behalf of a Group or a Society : REGISTRAR
Goa University
Taleigao Plateau
Goa. 403 206

Address :

Ph: 0832/2437401

14/C

Do not write outside this box

Engg & Tech Div
22/07/19

Note:

Sub: Installation & Commissioning of 240 KWp Connected roof top, solar PV power Plant at G.U. Bambolim, Goa.

The member Secretary, GEDA, Shri. Sanjeev Joglekar vide their letter bearing No.1/212/GEDA/19-20/252 dated 3/7/2019 has requested the University to endorse the application form duly filled, submitted by them for forwarding to the Chief Electrical Engineer, Panjim.

The duly filled forms, in duplicate as required are enclosed in the folder for signature of 'R' please.

Submitted.

V. Bandodkar 22/7/19
(V.P. Bandodkar)

E.E.
22/07/19

ENGINEERING & TECHNICAL DIVISION GOA UNIVERSITY Date 22/07/19

May kindly be filled to be submitted to DST. R signature is also required.

V.C.

22/7

4598(A) 23/7/19

PA to R

The details in respect of phone nos. and email id are indicated in the enclosed form and placed for signature please.

23/7/19

Registrar. YVReddy 23/7

PA to R 24/7/19

ENGINEERING & TECHNICAL DIVISION GOA UNIVERSITY Date 24/07/19

AE(CE) Call that Number and handover the ...

Do not write outside this box

AE(CE) ...

2362(R)
05/08/2019

No.1/212/GEDA/19-20/321
Office of the Member Secretary
Goa Energy Development Agency
5th Floor, Goa-IDC Building,
Patto, Panaji, Goa – 403001.
Date: 31/07/2019

To
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

(Sanjeev Joglekar)
Member Secretary (GEDA)

Enclosure: As above.

Copy for information to:
1) Registrar, Goa University, Bambolim, Goa.
2) Concern file.
3) Guard file

6/C

GU/9/Engg & Tech Div/2019-20/114 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

8/c

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:

Sl.	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
6.	Land Line Number(s)	8669609005
7.	Mobile Phone Number	---------- 8669609300
8.	Email Contact if available	registrar@unigoa.ac.in
9.	Solar Plant Capacity kWp	365kWp
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 : Y.V.Reddy
PROF. Y.V. REDDY

Position if on behalf of a Group or a Society : REGISTRAR

Address : Goa University
Taleigao Plateau
Goa. 403 206

4/C

GOA UNIVERSITY
REGISTRAR OFFICE
Inward No.: 2628(R)
Date: 19/08/2019

No.1/212/GEDA/19-20/371
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.

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

Sir,

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 Five Hundred only) which is 29.28% below the estimated cost of Rs.3,78,00,000.00 put to the tender.

ENGINEERING & TECHNICAL DIVISION
GOA UNIVERSITY
Inward No. 1341
Date 20/08/19

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

3. The Warranty/Guarantee for the said 605kWp Solar PV Grid Connected power 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.

EE 21/08/19 AE(E) pls sp

Discussed with on 22/8/19. It has been decided to depute the department electrician to supervise the work on bldgs

2/C

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,

(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.

OFFICE OF THE CHIEF ELECTRICAL ENGINEER
ELECTRICITY DEPARTMENT
GOVERNMENT OF GOA
VIDYUT BHAVAN 3rd FLOOR
PANAJI - GOA

GOA UNIVERSITY
REGISTRAR OFFICE
Inward No.: 3815(R)
Date: 18/10/19

ENGINEERING & TECHNICAL DIVISION
GOA UNIVERSITY
Inward No. 2248
Date 21/10/19

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

No.101/1/Solar/SPD/CEE/Tech/2019-20/1314 Dated: 11/10/2019.

To,
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.

Sir,

Provisional approval is hereby given to your installation bearing **C.A. No. 60000803217 (IITI) 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:

1) 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.
4) 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.

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/ Non-departmental) 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 follows:

a) Meter: Renewable Energy meter (Bi-directional), Class: 0.5s, Rating: 3 x __/5A; 3 x 110V/Rt.3 V

b) CT & PT: The system voltage shall be as per the available HT supply level, i.e. 11 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-sec, 1LV- 36/70/170KV, Ref. Std. IS: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 IS: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 installed.

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.

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, Patto, Panaji – Goa.

18/C

2361 (R)
05/08/2019

No.1/212/GEDA/19-20/320
Office of the Member Secretary
Goa Energy Development Agency
5th Floor, Goa-IDC Building,
Patto, Panaji, Goa – 403001.
Date: 31/07/2019

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

(Sanjeev Joglekar)
Member Secretary (GEDA)

Enclosure: As above.

Copy for information to:
1) Registrar, Goa University, Bambolim, Goa.
2) Concern file.
3) Guard file

EE
AE(E)
06/08/19

GOA UNIVERSITY
REGISTRAR OFFICE
Inward No.: 3814(R)
Date: 18/10/19

OFFICE OF THE CHIEF ELECTRICAL ENGINEER
ELECTRICITY DEPARTMENT
GOVERNMENT OF GOA
VIDYUT BHAVAN 3rd FLOOR
PANAJI - GOA

ENGINEERING & TECHNICA
DIVISION
GOA UNIVERSITY
Inward No. 2249
Date 21/10/19

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

No.101/1/Solar/SPD/CEE/Tech/2019-20/ 1315 Dated: 17/10/2019.

To,
The Registrar,
Goa University,
Bambolim Goa - 403005.

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.
2) 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.
3) All equipments should be tested from Accredited National Laboratories.
4) 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.

26/-

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.

ENGINEERING & TECHNICAL DIVISION GOA UNIVERSITY Inward No. 3295 10/08/2020

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)/20-21/1591 Date:27/07/2020

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

GOA UNIVERSITY ... 1206 (R) 31/7/20

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.

Pl examine and speak to them and find out details
V Reddy 31/7

EE
AE CS
10/08/2020
10/8

गोवा GOA

A 172910

Date 18/6/2020 Sr. No. 10 Value Rs. 100

Name of Purchaser [illegible]

Resident of [illegible]

Place of Vendor Panaji

Licence No. AC/STP/VEN/102/2003

Sign. of Vendor Sign.of Purchaser

AGREEMENT

This Agreement is entered into at (location) Panaji, Goa, on this (date) 06th day of (month) August (year) 2020.

BETWEEEN

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

Y V Reddy
REGISTRAR
Goa University
Taleigao Plateau
Goa 403 206

AND

Shri Y.V. Reddy, Registrar, Goa University, Bambolim, Goa having its Consumer Contract Account No.600008032l7 (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 as amended 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 contract 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;

AND WHEREAS, the application has been duly verified 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:-

1. **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 Grid 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 locking 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

f) DC Injection: Photovoltaic system shall not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.

g) Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.

2.8 The SPV system, in the event of power outage or voltage or frequency variations, shall island/disconnect itself automatically and shall not inject power to the EDG distribution systems as per IEC standards within the stipulated period.

3. Safety :

3.1 Prosumer shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations, 2010.

3.2 Prosumer agrees that the design, installation, maintenance and operation of the SPV system are performed in a manner conducive to the safety of the SPV system as well as the EDGs distribution system.

3.3 Solar Power Generator shall install a main switch or isolator with Double pole / Triple pole with neutral isolating 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 distribution system.

3.4 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

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

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.

3.6 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.

4 Clearances and Approvals :

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

5 Access and Disconnection:

5.1 The EDG shall have access to metering equipment and disconnecting other devices of SPV system, both automatic and manual, at all times.

5.2 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 system.

6 Liabilities :

6.1 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.

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 arise 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:

a) 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 Power 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 as 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

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

e) 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 whatsoever reasons, such as line clear, load shedding and line faults etc , and no compensation shall be paid for the above reasons by the EDG.

f) 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 solar energy produced.

8 Billing and Payment :

8.1 At the end of each Billing Cycle, the EDG 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.

8.2 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.

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

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.

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9.3 Prosumer may optionally install an Energy Feed-In Check Meter as its own cost.

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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.

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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 :

YV Reddy

12.1 Disputes in billing or payments shall be referred to the Consumer Grievances Redressal Forum (CGRF) established under Sub-section (5) of section 42 of the Electricity Act 2003.

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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.

15. The parties hereto shall be bound by the JERC Regulations.

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: ____________

Shri. Arun Patil

The Executive Engineer, Div. ____, Executive Engineer Elect. Div. (O&M), Panaji Goa

Electricity Department ______, Goa.

Seal

For and on Behalf of the

Electricity Department, Goa.

Date: 06/08/2020

SIGNED, SEALED AND DELIVERED BY

Signature: Y V Reddy

Shri. Y. V. REDDY

Seal REGISTRAR Goa University Taleigao Plateau Goa 403 206

Date: ____________

For and on behalf of Prosumer dated ____________

By virtue of (Authority) ____________

WITNESSES :

(Name) (Address)(Designation) (Signature)

1) SHRI. KRISHNA V. NAIK Electrician Engg & Tech DIV Goa University ____________

2) SHRI RAJARAM D. SAWANT Electrician Engg & Tech Div. Goa University ____________

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100

ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

गोवा GOA

A 17790

Date 18/8/2020 Sr. No. 17 Value Rs. 100

Name of Purchaser Goa University

Resident of Bambolim

Place of Vendor Panaji

Licence No. AC/STP/VEN/102/2003

Sign. of Vendor Sign of Purchaser

AGREEMENT

This Agreement is entered into at (location) Panaji, Goa, on this (date) 06th day of (month) August (year) 2020.

BETWEEEN

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

YV Reddy

REGISTRAR

Goa University

Taleigao Plateau

AND

Shri Y. V. Reddy, Registrar, Goa University, Bambolim, Goa having its Consumer Contract Account No.60000801385 (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 as amended from time to time (hereinafter referred to as "JERC Regulations");

AND WHEREAS, the Prosumer intends to install a SPV system of 240kWp capacity on the roof top/ground mounted of the premises situated at Bambolim, Goa and having the Consumer Number (Cons. No) 60000801385 in the same premises under Sub-Division .., in the Jurisdiction of Division-I of the EDG with contract demand 800KVA;

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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Taleigao Plateau

AND WHEREAS, the application has been duly verified 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:-

1. **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 Grid 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 locking 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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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.

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f) DC Injection: Photovoltaic system shall not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.

g) Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.

2.8 The SPV system, in the event of power outage or voltage or frequency variations, shall island/disconnect itself automatically and shall not inject power to the EDG distribution systems as per IEC standards within the stipulated period.

3. Safety :

3.1 Prosumer shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations, 2010.

3.2 Prosumer agrees that the design, installation, maintenance and operation of the SPV system are performed in a manner conducive to the safety of the SPV system as well as the EDGs distribution system.

3.3 Solar Power Generator shall install a main switch or isolator with Double pole / Triple pole with neutral isolating 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 distribution system.

3.4 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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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.

3.6 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.

4 Clearances and Approvals :

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

5 Access and Disconnection:

5.1 The EDG shall have access to metering equipment and disconnecting other devices of SPV system, both automatic and manual, at all times.

5.2 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 system.

6 Liabilities :

6.1 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 arise 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:

a) 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 Power 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 as 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.

e) 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 whatsoever reasons, such as line clear, load shedding and line faults etc., and no compensation shall be paid for the above reasons by the EDG.

f) 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 solar energy produced.

8 Billing and Payment :

8.1 At the end of each Billing Cycle, the EDG 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.

8.2 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.

8.3 In case the Prosumer is under the ambit 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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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: _____

Shri. Arun Patil

Executive Engineer
Elect. Div.I(O&M),
Vasco Goa

The Executive Engineer, Division ___,

Electricity Department _____, Goa.

Seal

For and on Behalf of the

Electricity Department, Goa.

Date: 06/08/2020

SIGNED, SEALED AND DELIVERED BY

Signature: Y V Reddy

Shri. Y. V. REDDY

Seal

REGISTRAR
Goa University
Taleigao Plateau
Goa 403 206

Date: _____

For and on behalf of Prosumer dated _____

By virtue of (Authority) _____

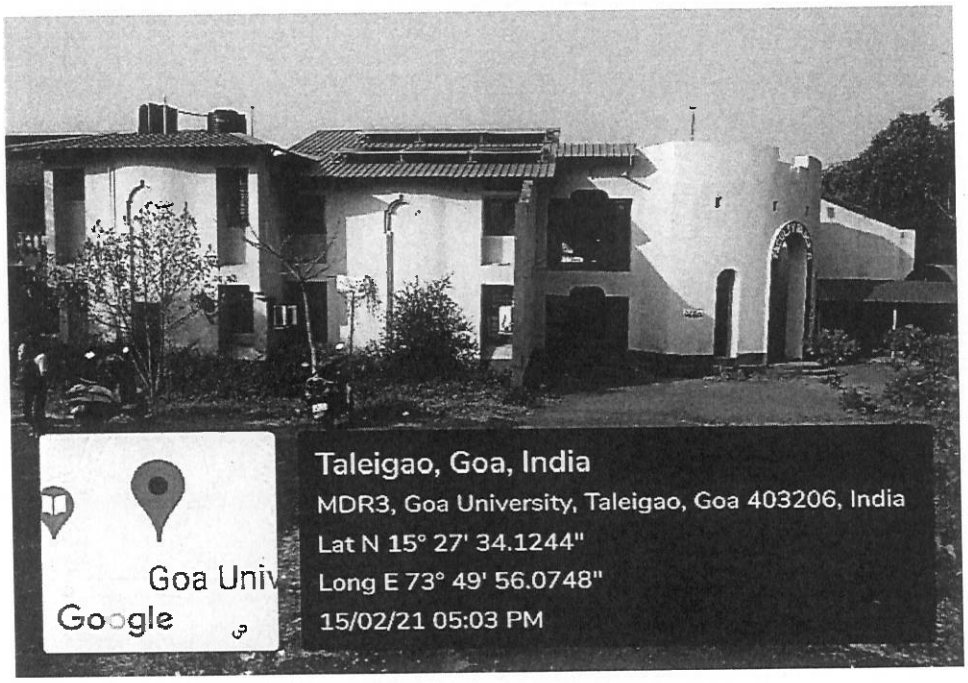
WITNESSES :

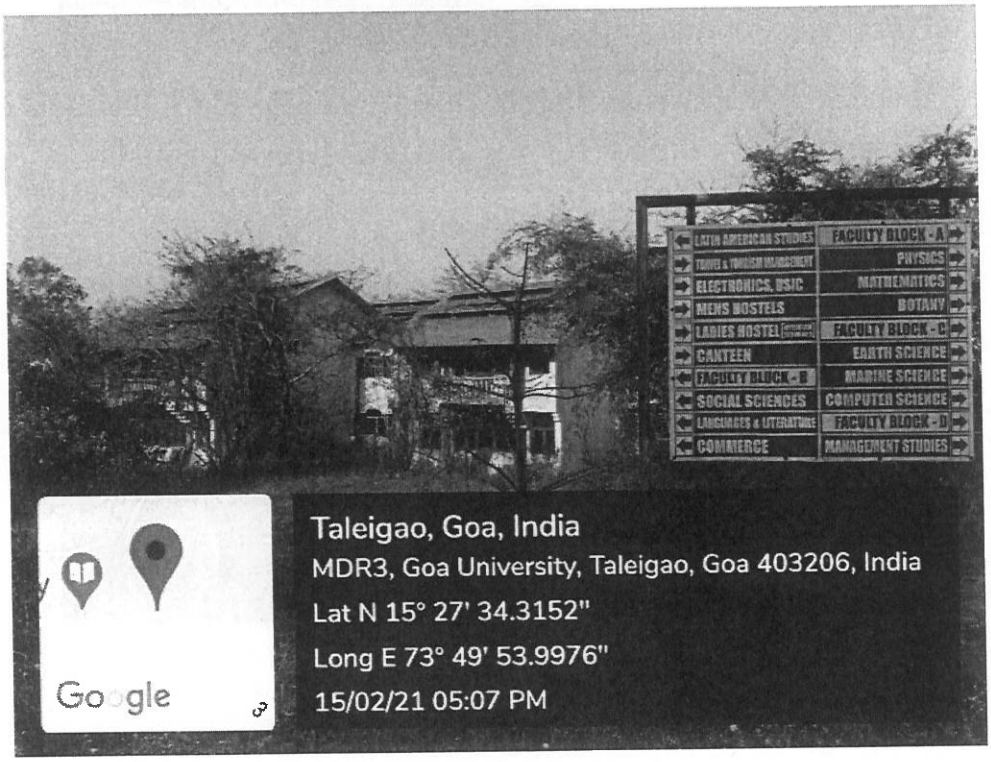
(Name) (Address)(Designation) (Signature)

1) SHRI. KRISHNA V. NAIK Electrician Engg & Tech Div. Goa University

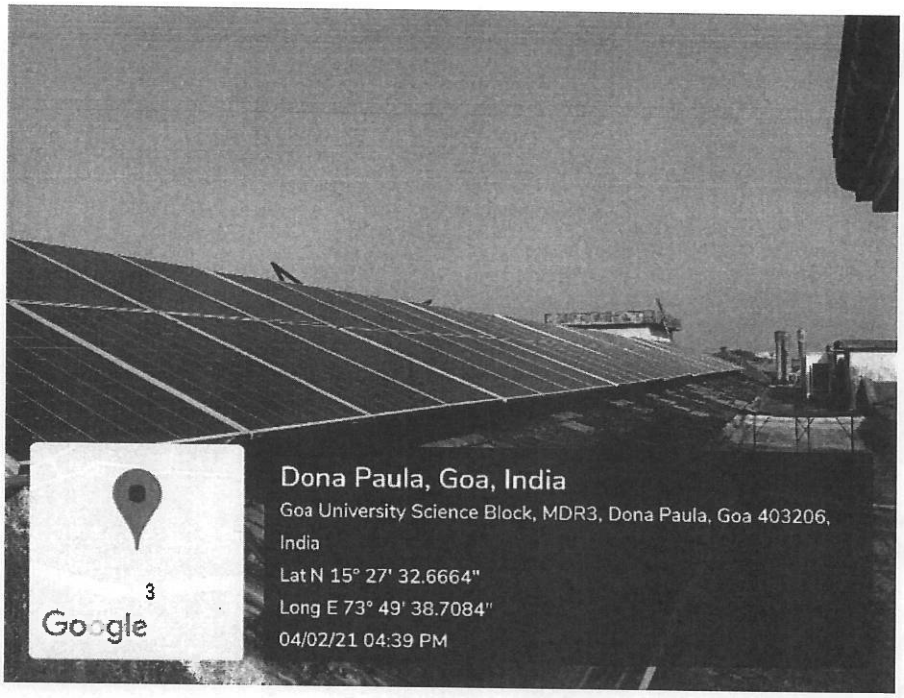
2) SHRI. RAJARAM D. SAWANT Electrician Engg & Tech Div. Goa University

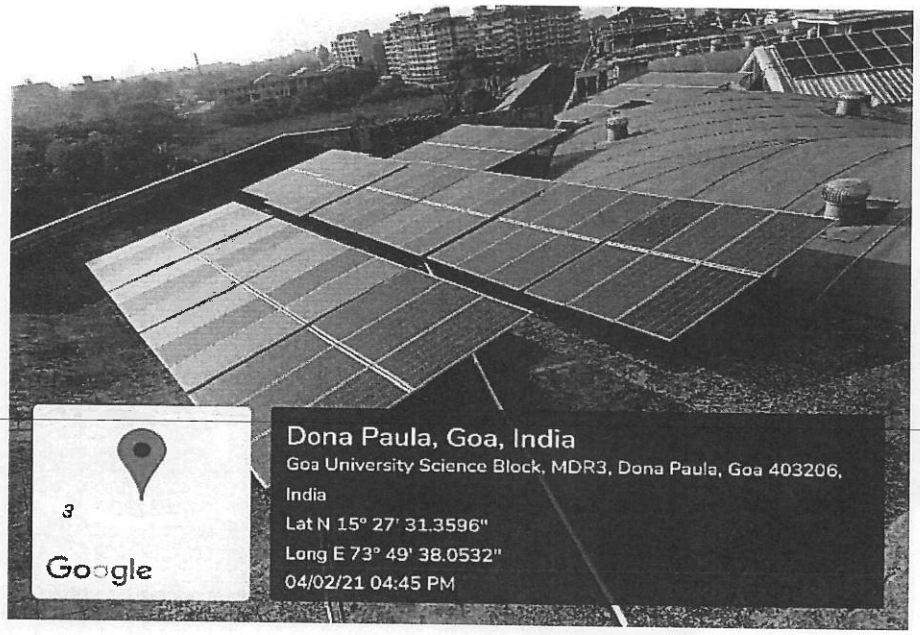
3. Solar panels installed at Faculty Block-A, Goa University

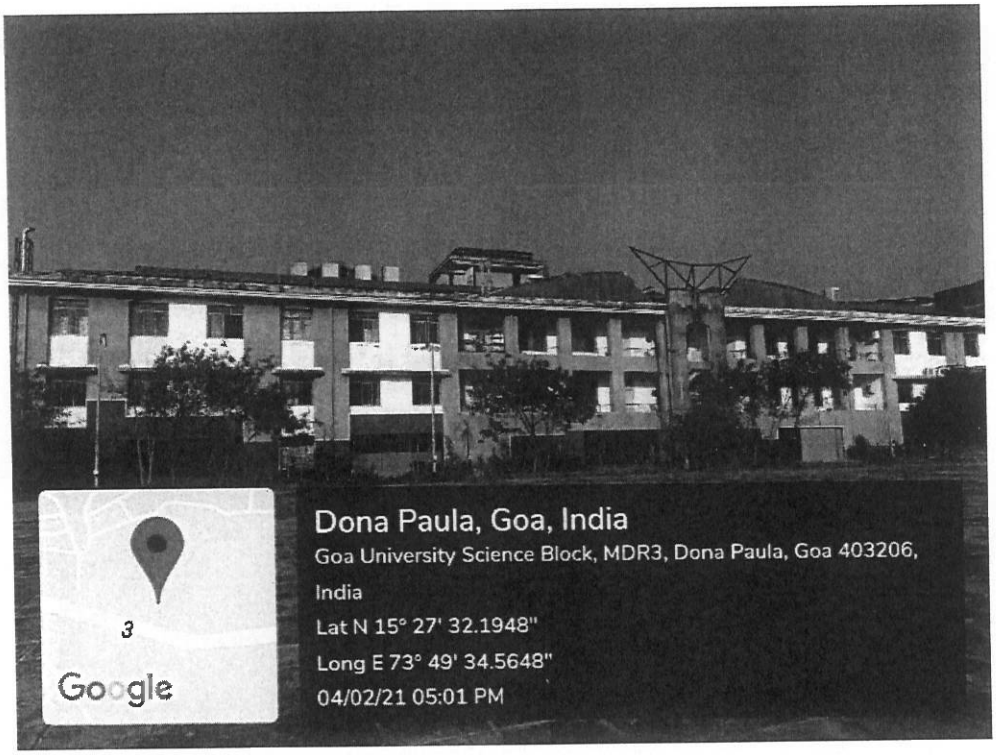




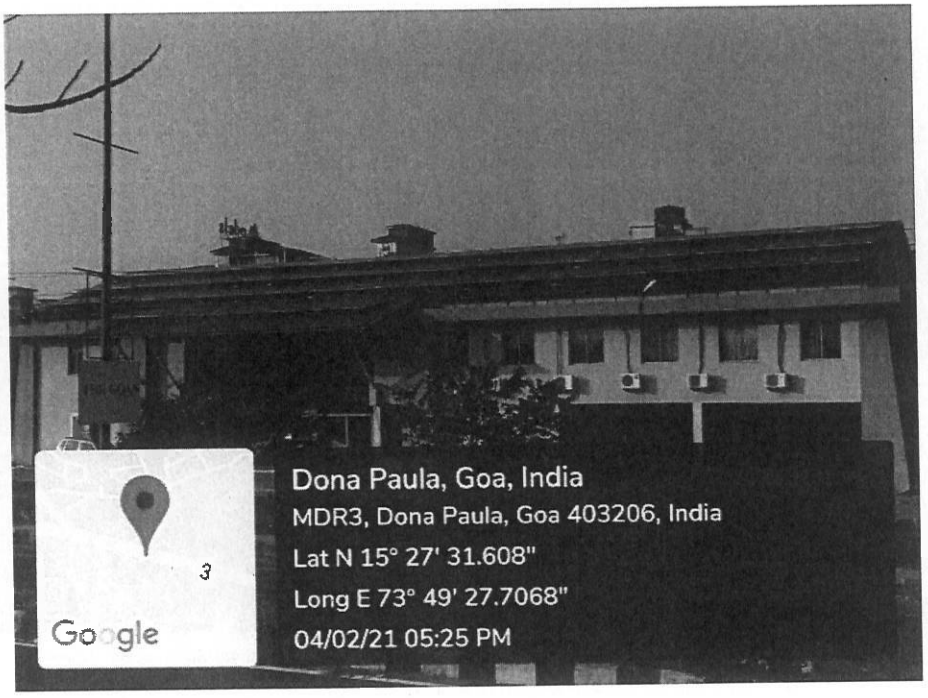
4. *Solar panels installed at Science Block-E, Goa University*

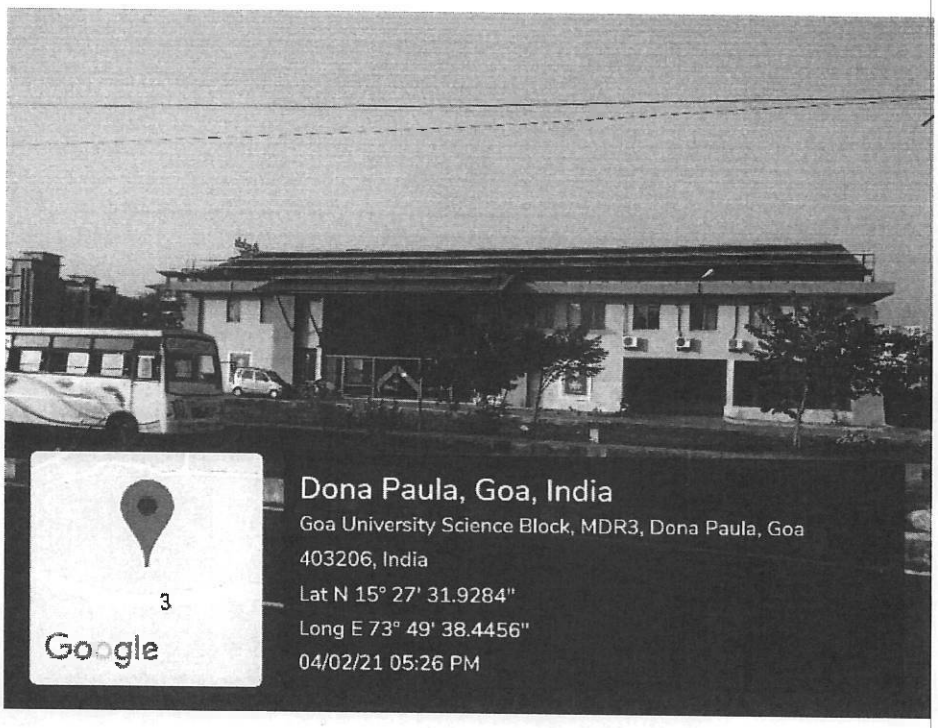






5. Solar panels installed at Faculty Block-F, Goa University

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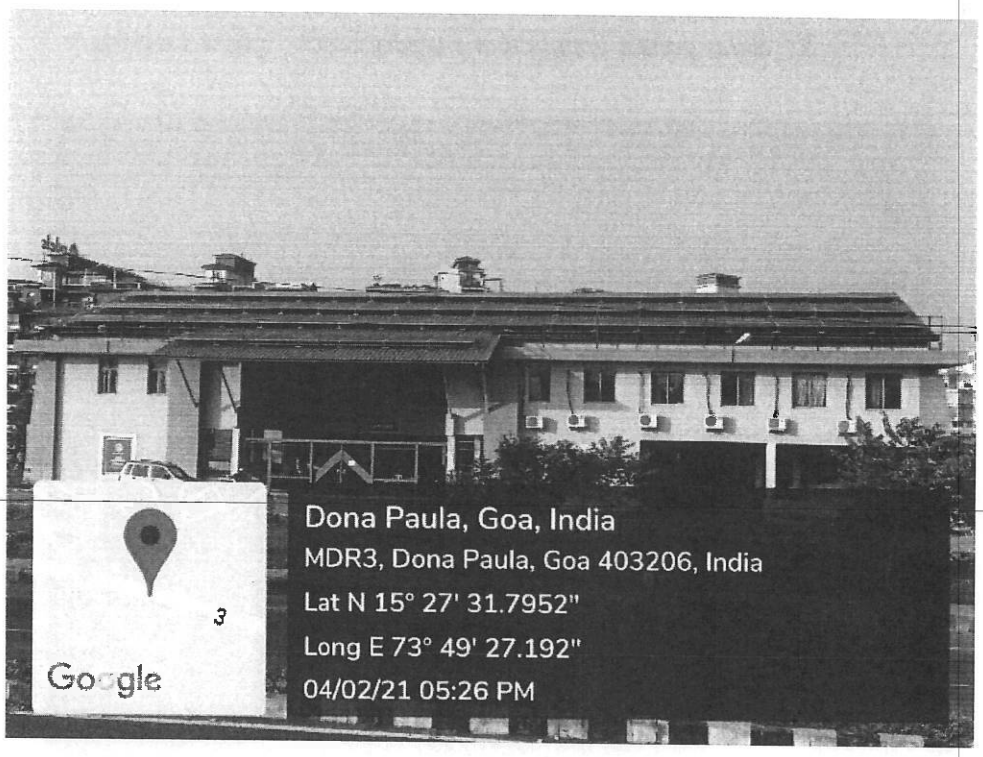
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