তেজপুৰ বিশ্ববিদ্যালয়
(কেন্দ্রীয় বিশ্ববিদ্যালয়)
ড° বীৰেন দাস
পঞ্জীয়ক

तेजपुर विश्वविद्यालय
(केंद्रीय विश्वविद्यालय)
डॉ. बीरेन दास
कुलसचिव

TEZPUR UNIVERSITY
(A Central University)
Dr. Biren Das
Registrar

(सर्वोत्तम विश्वविद्यालय के लिए कुलाध्यक्ष पुरस्कार, 2016, भारत के 100 श्रेष्ठ उच्च शिक्षण संस्थानों में पंचम स्थान और 'नाक' द्वारा 'ए' ग्रेड प्राप्त विश्वविद्यालय)
(Awardee of Visitor's Best University Award, 2016, 5th among India's Top 100 Universities, MHRD-NIRF Ranking, 2016 and NAAC Accredited with "A" Grade)

No. F.12-1/97(GA-1)/ 3169

06-11-2018

To
The Sub- Divisional Officer
Tezpur Electrical Sub-Division
Assam Power Distribution Company Ltd.
Tezpur, Assam

Subject: Work completion Report and Agreement copy related to 1000 kWp Grid-connected Rooftop Solar Photovoltaic Power Plant at Tezpur University

Sir,

Inviting reference to the subject mentioned above, I am enclosing the Work completion report of the 1000 kWp Grid connected Solar Photovoltaic Power Plant installed at Tezpur University and the copy of the Agreement to be signed between Tezpur University and APDCL.

I would like to request you to kindly arrange the Inspection, Commissioning and Synchronization of the Plant and install the Bi-directional Meter at the earliest.

With regards,

Yours faithfully,
6/11/18
Registrar

06-11-2018

Memo. No. F.12-1/97(GA-1)/
Copy for information to:

1. Chief Electrical Inspector/Electrical Inspector, Tezpur, Assam, Government of Assam.
2. General Manager (NRE), Annex Building, Bijulee Bhawan, Paltan Bazar, Guwahati – 1.
3. Director, Arunachal Pradesh Power Corporation Pvt Ltd, B-17, Sector-I, Noida, U.P.
4. Executive Engineer, Tezpur University
5. Dr. Sadhan Mahapatra, Department of Energy, Tezpur University & Co-ordinator of RTPV.
6. File.

6/11/18
Registrar

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Technical Feasibility Report
(To be issued by APDCL)

Name of Sub Division: Tezpur ESD-II
Consumer Number: 6300000130 9
Meter No:

Application Number: TESD/SOLAR/001
-II

Technical Feasibility Report on proposed installation of Grid connected Solar rooftop PV plant

Sl No	Description	Observation of field official
A	Applicant Details	
	Name of the Applicant	Dr. Birek Das (Registrar)
	Address	Tezpur University Napaam - 784-028
	Category of consumer (Domestic/Commercial/Industrial)	HT - Bulk Education
	Type of existing connection (single phase 2 wire/3 phase 4 wire)	3Phase, HT 3ph 4 wire CTPT operated
	Type of Meter (Export/Import)	1 Single phase 2 wire electronic current static LT meter 2 3 phase 4 wire Static LT meter 3 3 phase 3 wire LT Electronic Import Meter 4 HT Meter ✓
	Sanctioned load (in kW)	1 Premise 2 Premises ✓
	Contracted demand (in kVA)	2000 Kw 1500 KW Proposed
	Type of Industry	
	Voltage of Supply	
B	Distribution Transformer Details	
	Location	Tezpur University
	Transformer No	00PPG001/1 & 00PPG001/2
	Capacity	2500 Kva & 2500 Kva
	Sanctioned load	2000 Kw
	Peak load recorded in the month	1347 KW
	Peak load recorded in the month (in kW)	✓
	Rated capacity of the Solar PV system proposed (in kWp)	1000 Kwp
	Rated capacity of the Solar PV system proposed (in kWp)	1000 KWp

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9	Whether the transformer capacity is adequate to deliver the proposed SRTPV system in addition to existing solar RTPV systems as per AERC Regulations.**	✓ Yes / No
10	Mode of execution(Please Tick)	1. CAPEX 2. RESCO ✓ 3. Others
C	**Connecting Feeder Details**	
1	Name of the ~~11~~ 33kV feeder	Tezpur University
2	Feeder Number	
3	Name of the 33/11kV Sub Station	
4	Type of the conductor/cable (size)	Wolf.
5	Total connected load in the feeder in KW	~~1500~~ KW
6	Aggregate capacity (kWp) of SRTPV systems already connected in the feeder	0
7	Peak load of the feeder in KW	1347 KW
8	Proposed SRTPV installation is technically feasible in the existing feeder ✓ Yes / No (If it is not feasible, tick the reasons) (i) Overloading of transformer (ii) Conductor constraints in the feeder (iii) Applied aggregate solar panel capacity is more than 80% of connected load (iv) DTR already attains allowable 20% peak load on account of SRTPV installations / capacity addition (v) Outstanding revenue liability not cleared (vi) Connected load is not adequate for eligibility of installation Minimum allowable SPV capacity plant of 1 KW(shall be within 80% of connected load) (vii) Proposed SRTPV installation capacity exceeds allowable Maximum capacity of 1 MW (viii) Inadequate shadow free area for installation of solar panel (ix) Others, if any	feasible.

NB: (i) * **The solar panel capacity of the consumer shall be within 80% of connected/contracted demand**
(ii) ****The cumulative solar panel capacity of all such consumers connected to the Transformer/DTRis limited to 20% of the peak capacity of the Transformer/DTR**

I hereby certify that the above said SRTPV installation is technically feasible/not feasible /feasible with 1000 KW capacity

Signature and Name
SDE,
.....Electrical Sub - Division,APDCL

Sub-Divisional Engineer
Tezpur Elect, Sub-Division II
APDCL, Tezpur

REPORT OF INSPECTION / TESTING / RENOVATION / NEW CONNECTION

CARRIED OUT BY MTI SUB-DIVISION, TEZPUR / BISWANATH CHARIALI UNDER MTI DIVISION, TEZPUR

Sl. No. : 06

Electl S D TESD-II APDCL(CAZ) IRCA Tezpur

Ref Installation & Commissioning of Solar Meter Date of Inspection 06/07/2019

1. PARTICULARS OF CONSUMER / INSTALLATION

Registrar, Tezpur University — Plant Capacity : 100KWp (PCU-16 & 17)

Nature Solar Power Plant No. 6

Address (Kanchanjangha & Nilachal Mens Hostel)

d) Category — e) Con. Load (Recorded) KW — f) Contr. Demand (Recorded) KVA

g) Con. Load (By Physical Varification) — KW — i) Tr. Capacity KVA

j) Tr. Sl. No. & Make

2. SPECIFICATION OF METER & METERING ITEM (AS FOUND)

METER : 1P2W / 3P3W / 3P4W, LT / HT, Property of ASEB / Consumer

No. Make Constant

Volts Amps Self MF

PTR (Mtr.) CTR(Mtr.) Class Y.M

B) CT/PT/CT-PT : Property of ASEB/Consumer

CT/PT/CT-PT Sl. No

CTR PTR CTR Set

Make Class Y.M

3. SPECIFICATION OF METER & METERING ITEM (AS LEFT)

A) METER : 1P2W/3P3W/3P4W, LT/HT, Property of ASEB / Consumer

Sl. No X0862213 Make Secure Constant 6400

Volts 3X240V Amps -/5A Self M.F 1.0

PTR (Mtr.) 1.0 CTR(Mtr.) 1.0 Class 0.5s Y.M 12/2018

B) CT/PT/CT-PT : Property of ASEB/Consumer

CT/PT//CT-PT Sl. No 04-198, 04-160, 04-199, 04-191

CTR 200/5A PTR CTR Set 200/5A

Make Ramamy Class 0.5 Y.M

4. EXISTING SEAL PARTICULARS (AS FOUND)

A) METER :

O.P

M.C.T.C. / T.C

Cabinet (Mtr. / CT)

B) CT/PT/CT-PT :

Secy. Terminals

Top Cover

C) TRANSFORMER :

LV Terminals

5. NEW SEAL PARTICULARS (AS LEFT)

A) METER :

M.C. O.P

M.C.T.C. / T.C. TEC002912, TEC002913

Cabinet (Mtr. / CT) TEC002914 (Mtr. Chamber)

B) CT/PT/CT-PT : TEC002915 (CT Chamber)

Secy. Terminals

Top Cover

C) TRANSFORMER :

LV Terminals

6. M. F. (EXISTING) :

7. OVERALL M. F. (NEW) : 40 (Forty)

8. Observation / Sub-standard details / Test Result / Meter Reading / Payments & Documents / Other Information on Metering System :

Location of plant Unit (Inverter, ACDB & metering at the back of hostel building & suitable.

Inverter (PCU16) is in damaged & unsealed condition

Sl. No. SGO50K1411820021, SGO50K1411820021, 50KW

SOLED-B-50, Input : 1000 v d.c., 30/30 A

Output 50KW/57KVA, Output Current : 80 A (a.c)

Sat 06.07.19 | C 00'3 KWh

tM 16.15.56 | bill 00'3 kwh

R-N 236'0V | bill PF 0'897

Y-N 236'5V | tMC bill 06

B-N 237'5V | R1 bill 0'3kwh

Lr 0'13A | R2 & R3 0'00"

Ly 0'14A | R1 bill 0'59 kVA

Lb 0'15A | R2 & R3 no data

PF 0'49 | CMD 0'63 kVA

PWR 0'1kW

Rst C 002

Remarks : The LT CT metering unit installed against 100 KWp Inverter capacity is energized and meter display parameters are recorded, performance found satisfactory. Sealing of metering unit is done. As the plant unit as well as the metering are towards unsuitable locations, SDE, TESD-II is requested to get shifting of the unit to a suitable location at front of Hostel as per T&C of APDCL

REPRESENTATIVE OF A. S. E. B. / COMPANY				NAME, DESIGNATION & SIGNATURE OF CONSUMER / REPRESENTATIVE
Designation	Signature	Name & Designation	Signature	I was present during the above inspection, testing and all work relating to metering system, verified all seals & information & comments as recorded above are found correct
SDE		B. Halai SDE TESD-II APDCL Tezpur		Gobinda Kalita AE(E) Tez. University (Full Name & Designation) (Signature)