

INSPECTION, COMMISSIONING & SYNCHRONIZATION REPORT

Ref No. SDE/AGI-BSD/Solar/2026/10150 dated 29/05/26

Sub: Inspection and Commissioning of 15 kWp Grid Connected Rooftop Solar PV Power Plant and approval for Synchronization.

A. INSPECTION REPORT:

Under Rule No. 47-A of I.E Rules 1956, Approval is hereby accorded to commission the Solar Rooftop Photovoltaic Generating System with a capacity of 15 kWp Single phase/ Three phase of Smt/Sri ARUNUDAY ACADEMY, AMGURJ (Name and address) installed in the installation bearing consumer No 199000016805 & Application No 3319495347...

Component Inspection Checklist

Sl. No	Item type	Yes	No
1	Installation layout – is it as per drawing?	✓	
2	Inverter IS/ IEC standards qualified	✓	
3	PV panel IS/ IEC standards qualified	✓	
4	PV isolators/PV cables IS/ IEC standards qualified	✓	
5	AC disconnect manual switch provided	✓	
6	Meters from T&C staff tested? (as per meter regulations)	✓	

Grid -Functional Safety Checklist

Sl. No	Item type	Yes	No
1	Check-PV inverter anti islanding (utility side). Disconnect Grid and check whether PV generator seizes Generation immediately	Yes	
2	Check Reconnect time. Reconnecting the Grid, PV generator reconnects minimum 60 seconds later (Single phase) or minimum 300 seconds later (Three phase connectivity)	Yes	
3	Bi-directional flow recorded on APDCL Meter	Yes	
4	PV inverter anti islanding tested at array side	Yes	
5	Solar Generation meter OK?	Yes	
6	Check all earthings provided at ACDB/DCDB/LA	Yes	

Power Quality Measurement Checklist

Sl. No	Item type	Yes	No
1	Check – Harmonic current injections from a RTS plant shall not exceed the limits specified in IEEE 519	Yes	
2	Check – Photovoltaic system must be equipped with a grid frequency synchronization device	Yes	
3	Check – Voltage operating window should minimize nuisance tripping and should be under operating range of 80% to 110% of the nominal connected voltage. Beyond a clearing time of 2 seconds, the Photovoltaic system must be isolate itself from the	Yes	

Director
 Arunoday Academy
 Amgurt
 Swasagar

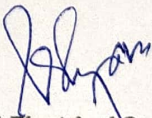
	grid		
4	Check – Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits	Yes	
5	Check – When the RTS plant frequency deviates outside the specified conditions (50.5 Hz on upper side and 47.5 Hz on lower side), the photovoltaic system shouldn't energize the grid and should shift to island mode	Yes	
6	Check – Photovoltaic system should 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	Yes	
7	Check – While output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 should operate	Yes	
8	Check – The inverter should have the facility to automatically switch off in case of overload or overheating and should restart when normal conditions are restored	Yes	
9	Check – Parallel device of Photovoltaic system shall be capable of withstanding 220% of the nominal voltage at the interconnection point	Yes	

This approval is subject to the following condition:

The consumer of the installation shall ensure that at any point of time the Solar supply should not feedback into the grid when APDCL grid supply is off.

----- Authorized Official
 CEI, Government of Assam
 (For the Plant capacity > 500 KVA)

..... Authorized Official
 T&C Division, APDCL
 (For the Plant capacity <= 500 KVA)


 SDE, Concerned Electrical Sub – Division,
 Assam Power Distribution Company Limited

29/05/2026
 Sub-Divisional Engineer
 Amguri Electrical Sub-Division
 APDCL, Amguri

Director
 Amguri Academy
 Amguri, Sivagangadutta

FORM C3 PART B

B. REPORT OF COMMISSIONING AND SYNCHRONIZING:

A		Consumer Details	
1	Name of the Consumer	Arunudoy Academy, Amguri	
2	Category	Commercial	
3	Consumer No.	199000016805	
4	Pole Number		
B		EXIM Meter (Bi-directional Meter)	Solar Generation side Meter
1	Meter make: 1ph / 3 ph	3ph (Genus)	
2	Type	Smart Meter	
3	Serial number	9996452	
4	Capacity	10-60 A	
5	Meter MF	1	
6	Initial reading (Tri-vector parameters)		
	i) Import	0	
	ii) Export	0	
C		Grid Tied Inverter	
1	Make	V-SOLE	
2	Serial number	2602222703	
3	Capacity	15 KW	
4	Input voltage	440V (DC)	
5	Output voltage	440V	
6	Whether Anti-islanding feature is in working condition	Yes / No ✓	
D		PV Module	
1	Make	Adami Solar, (Mundra Solar Pvt. Ltd)	
2	Serial number	AS2510201C0165	
3	Type of module	TOPCON	
4	Capacity of each module	620 WP	
5	Number of modules	25	
6	Total capacity of module	15.5 KW	
E		Earthing verified: DC earthing, AC earthing, LA earthing of Solar Rooftop PV system	
		Yes / No ✓	

Sub-Divisional Engineer
Amguri Electrical Sub-Division
APDCL, Amguri

29/05/2026

