Sample Filled Format

Data format for Government Building to access Potential for Roof top Solar installation

Sr. No.	Required details	Inputs to be filled
1	Name of the Ministry	MINISTRY OF CIVIL AVIATION
2	Name of the Department/ University	RAJIV GANDHI NATIONAL AVIATION UNIVERSITY, FURSATGANJ, DIST. AMETHI, UTTAR PRADESH - 229302
3	Details of the Nodal Officer	
(a)	Name	
(b)	Designation	
(c)	Phone No	
(d)	Mobile No	
(e)	Email id	
3	Details of each attached Office	

	Attached Office (Head Quarter/PSU/Autonomous Bodies/Labs etc)	Location details						Type of ownership (Owned /Leased)	If Leased, status of Rooftop rights	Total sanctioned load	Total consumption (average annual consumption)	No. of Buildings	Name/identifier of the Building		Total Rooftop area available	Total feaisible area for RTS installation	Total feasible capacity for RTS installation	Feasible Capacity as per SECI	Current status of RTS installation- Installed capacity	Remarks (if any)
		Address	District	State	Pin Code	Latitude	Longitude			kW	kWh		Sr No	Name/identifier	Square meter	Square meter	kW	KW	kW	
	RAJIV GANDHI NATIONAL AVIATION UNIVERSITY, A CENTRAL UNIVERSITY	RAJIV GANDHI NATIONAL AVIATION UNIVERSITY, FURSATGANJ, DIST. AMETHI, UTTAR PRADESH - 229302	AMETHI	UTTAR PRADESH	229302	**26.251694**	**81.384746**	Owned	NA	525 kW	145 kWh	6	1	University Main Building	1730	1260	105	172	60 (not working)	
													2	Hostel Building	1500	300	25			
													3	Senior Executive House	270	190	16			
													4	Senior Faculty Flats (Block-A)	375	130	10			
													5	Junior Faculty Flats (Block-B)	375	100	8			
													6	Junior Faculty Flats (Block-C)	375	100	8			

80840
18/06/24

Rooftop Solar Data Collection Form

Table A:

Sr. No.	Particulars	Details
1	Name of Department	SARDAR VALLABHBHAI PATEL INTERNATIONAL SCHOOL OF TEXTILES AND MANAGEMENT.
2	Type of Establishment (CPSU/ State PSU/ Central Government/ State Government / Autonomous body under Central or State Government)	AUTONOMOUS BODY UNDER CENTRAL GOVERNMENT.
3	Head office address	NO: 1483 AVINASHI ROAD. PEELAMEDU COIMBATORE 641004.
4	Nodal Person for rooftop solar Name: Designation: Mobile Number: E-mail id:	S.V. SANKAR. ADMIN OFFICER 9443432657 svs@svpitm.ac.in.
5	States where entity has establishments and wants to explore rooftop solar	TAMILNADU.
Within the state, please provide following details for the establishments (Refer Table-B)		
6	Address of the establishment	NO:1483, AVINASHI ROAD, PEELAMEDU COIMBATORE-641004
7	Number of Buildings in Department	01
8	Name of Electricity provider/ Distribution Company	TNEB.
9	Sanctioned Load (kW)	100 KW.
10	Total Capacity of All Distribution Transformer in Campus (kVA)	S.no: 1 — Rated Capacity (kVA): 133200 — High Voltage (HV) Side: — — Low Voltage (LV) Side: — S.no: 2 S.no: 3
11	Total Electricity bill of preceding year (INR lakhs)	21,57,720/-
12	Total no. of electricity units consumed in preceding year (kWh)	133,200
13	Land available for ground mounted (Yes/No)	—
14	Copy of Electricity Bill	—
15	Any dues not paid to the electricity provider (pending for last six months or more)	NO
16	Preferred tenure of PPA	25 years
17	Existing Rooftop Plant Capacity if any (kW)	NIL
18	Mode of Installation of Rooftop Solar Power Plant CAPEX/RESCO (Refer to Annexure-I)	CAPEX.
19	Ceiling Tariff in case of RESCO Mode if required (Refer to Annexure-II)	—
20	Maximum Energy Charge/ Tariff in Rs./kWh	—

(Name & Sign of authorized Signatory)

With Stamp

Administrative Officer
SVPISTM
Coimbatore - 641004

S.V. SANKAR

Table B:
Within establishment, please provide following details for the buildings:

Sr. No.	Building Name / Number	Total shadow free rooftop area (In Sq Mtrs)	Height of Building (Metres)	Building Age as on July 2021 (Years)	Connected Load / Incoming feeder rating (kW/kVA)	Please specify Roof Type (RCC/ GI Sheet/ Asbestos etc.)	Undisturbed availability of rooftop for solar plant life	Shadow Free Land Available for solar (In Sq Mtrs)	Building Latitude – Longitude Details
01	ACADEMIC	8000 Sqm	14 Meters	[illegible]	11 KVA	GI SHEETS	—	8000 SqFt	N 220 28' 7 [illegible] E 73 4 34 4429

(Name & Sign of authorized Signatory)
With Stamp

Note: 1. Table-B may also to be provided in excel/word copy through mail.

2. The complete information may be provided at rooftopsolar@seci.co.in

Administrative Officer
SVPISTM
Coimbatore - 641...

TamilNadu Generation and Distribution Corporation Ltd.

High Tension Bill (Provisional) for the Month of July 2023

TANGEDCO CIN No: GST No:33AADCT4784E1ZC

HSN : 27160000 SAC : 996912

**** Electrical Energy & Distribution Services are exempted under GST ****

To:	SARDAR VALLABHAI PATEL INTERNATIONAL SCHOOL OF	Service No.	039094350386
	1483,AVINASHI ROADCOIMBATORE	Bill No.	H4350386072311
		Date of Bill	01-Aug-23
		Due Date	07-Aug-23
	SANGANUR.		
	COIMBATORE NORTH	Tariff App. / Bld.	HT IIA1 / HT IIA1
	Coimbatore - 641018	GST No :	33AAETS0003R1ZI

Permitted MD :	180 KVA	Supply Voltage:	11 KV	Tr. CAP.	0 KVA

DETAILS	RATE	CONSUMPTION	AMOUNT (Rs.)
1. Industrial Consumption	7.15 per unit	8996	64,321.40
2. Peak Hour Consumption	1.79 per unit	2716	4,854.85
3. Night Hour Consumption (5% Rebate)	0.3575 per unit	1760 (-)	629.20(-)
4. Lavish illumination charges (Entire consumption)	0.3575 per unit		0.00
5. Quarters Consumption	0 per unit	0	0.00
6. Commercial Consumption	0 per unit	0	0.00
7. Temp. Supply Consumption	0 per unit	0	0.00
8. Total Energy Charges			68,547.05
9. Demand Charges	562 per KVA	162	91,044.00
10. Total Demand and Energy Charges			1,59,591.05
ADD			
11. Meter Rent(Including 9 %SGST&9 %CGST)			4,460.40
12. Belated Payment Surcharge for Govt service @0.5%			
13. Levy for exceeding con. demand	0 per KVA	0	0.00
14. Compensation Charges for low PF			0.00
15. Harmonics Compensation Charges (Incl. 18% GST)			0.00
16. Cross Subsidy Surcharge (Incl. 18% GST)			0.00
17. Electricity Tax			5,948.50
18. Additional Surcharge (Incl. 18% GST)			0.00
19. Adjustment Charges(Affecting) (Incl. 18% GST)			0.00
Rounding off			0.50
20. Assessment Amount			1,70,000.00
21. Adjustment Charges(Not Affecting) (Incl. 18% GST)			0.00
22. SD Refund amount / ASD amount if any			
23. Self Generation Tax			0.00
24. Self Generation Tax for Diesel Genset 0.10 /unit			0.00
25. E Tax on consumption from IEX			0.00
Net Total			1,70,000.00
Less: Amount Deductable due to Court Case			0.00
Less: Amount Deductable due to Advance CC			0.00
Tax collected at source			0.00
Net Amount Payable			1,70,000.00

Rupees : One Lakh Seventy Thousand Only

Amount Payable after due date & upto	22-Aug-23	1,71,230.00	(i.e 15 days Notice Period)
Deduction of TDS under section 194Q			0.00

RTGS Payment should be made for the exact Bill Amount. Any Part/Excess/Short Amount will be rejected.

This Bill is subject to the Audit, Outcome of the Court Cases, etc., if any, before the appropriate forum.

E & OE

ACCOUNTS OFFICER / REVENUE

H.T. BILL Working Sheet Annexure

Circle Code	0435	Meter Make		MF :	200
Circle Name	Coimbatore/Metro	Meter SL No.			
Service No.	039094350386	Bill Month	JULY 2023		

Reading Date : 01/08/2023 READING STATUS :Normal

MF: 200	kWhr	kVAhr	rkVAhr	kVAmd
SLOT TYPE	C			
Final Reading	2550.05	2715.87	550.6	0.443
Initial Reading	2505.08	2667.5	538.05	
Diff Reading	44.97	48.37	12.55	
Consumption	8994	9674	2510	88.6
Average Consp.				
SLOT TYPE	C1			
Final Reading	290.66	306.89		0.15
Initial Reading	283.66	299.56		
Diff Reading	7	7.33		
Consumption	1400	1466		30
Average Consp.				
SLOT TYPE	C2			
Final Reading	338.59	360.11		0.206
Initial Reading	332.01	353.06		
Diff Reading	6.58	7.05		
Consumption	1316	1410		41.2
Average Consp.				
SLOT TYPE	C3			
Final Reading	73.9	79.81		0
Initial Reading	73.9	79.81		
Diff Reading	0	0		
Consumption	0	0		0
Average Consp.				
SLOT TYPE	C5			
Final Reading	527.91	585.35		0.101
Initial Reading	519.11	575.26		
Diff Reading	8.8	10.09		
Consumption	1760	2018		20.2
Average Consp.				

DEMAND CALCULATION							
READING STATUS	QUOTA / SANCTIONED DEMAND	RECORDED DEMAND	DAYS BILLED	Total Days	90% of sanctioned demand (or) recorded demand whichever is higher	MD Rate	Amount (Rs.)
Normal	180	88.60	31	31	162.00	562.00	91,044.00

Tax Calculation	
I. E-Tax	
1) Realised energy charges	Amount (Rs.)
(a) Actual Energy Charges	64,321.40
(b) Peak Charges	4,854.85
(c) Lavish illumination Charges	0.00
(d) LT Charges	0.00
Total	69,176.25
2) Recorded Demand Charges including Transformer Loss	49,793.20
3) Low Pf Surcharge	0.00
Taxable Amount	1,18,969.45
E-Tax Amount (5%)	5,948.50
II. Old E-Tax	0.00
III. Self generation Tax	0.00
Total E-Tax (Electricity Tax+Self Gen. Tax+Self Consumption Tax)	5,948.50

039094350386	7	2023	0	0	0

e Invoice Details			
Service No	Bill Month	Bill Year	IRN No.
039094350386	7	2023	0db0da30cbc4900658d3270523bbff049bdaad5d8d0f3bc19e04f3192c297077

QR Code

This payment can be made through NEFT or RTGS using any of the following

S.No	Virtual Account No	IFSC Code
1.	TNEBHTC9094350386	IFSC Code :IDIB000A089 (INDIAN BANK)
2.	TGFBHT9094350386	IFSC Code :FDRL0000CMS (FEDERAL BANK)

சர்தார் வல்லபாய் படேல் சர்வதேச ஜவுளி மற்றும் மேலாண்மை கல்லூரி
सरदार वल्लभभाई पटेल इंटरनेशनल स्कूल ऑफ टेक्सटाइल्स एंड मैनेजमेंट
SARDAR VALLABHBHAI PATEL INTERNATIONAL SCHOOL OF TEXTILES & MANAGEMENT
Autonomous Institute Under Ministry of Textiles | Government of India.
Approved by AICTE | NAAC Accredited
#1483, Avanashi Road, Peelamedu, Coimbatore-641004. Tamil Nadu
Landline : 0422-2571675, 2592205, 2570855 Web: www.svpistm.ac.in

70629
24/04/24

SVPISTM/Admin/Solar/2024/3109 dt: 18.04.2024

To
General Manager,
Solar Energy Corporation of India Limited,
6th Floor, plate – B,
NBCC Office Block Tower -2,
East Kidwai Nagar,
New Delhi -110023.

Sir/Madam,

Sub: Proposal for Transitioning power source to solar at SVPISTM Coimbatore- reg

Ref: Ministry of New and Renewable Energy, Govt of India DO NO : 319/4/2024 GCRT dt 17/01/24.

It is intimated that orders have been issued by Govt of India, making Solar Power Installation Mandatory in all Govt organizations, by December 2024 circulated by MOT ND vide Email dated 25/01/24. The solar energy proposal for SVPISTM along with the estimated cost and justifications duly approved by our BOG, is submitted here with.

Our Sardar Vallabhbhai Patel International School of Textiles and Management (SVPISTM), Coimbatore, under the Ministry of Textiles, Government of India has been offering undergraduate and postgraduate courses since 2004 that would like to transit from conventional electric power to solar energy. This strategic initiative is motivated by our commitment to environmental sustainability and the urgent need to reduce operational costs associated with high electricity consumption.

1. Introduction:

SVPISTM, as a premier educational institution under the Ministry of Textiles, has been a stalwart in providing quality education in textiles and management. As we strive for excellence, we recognize the importance of embracing sustainable practices to reduce our environmental impact and ensure long-term financial stability.

2. Rationale:

The rationale for this proposal is as follows:

Environmental Responsibility: The adoption of solar energy aligns with SVPISTM's commitment to environmental responsibility. Solar power is a clean and renewable energy source that will significantly reduce our carbon footprint, contributing to the national and global efforts in mitigating climate change.

Cost Reduction: The current electricity consumption at SVPISTM is substantial, leading to high operational costs. Transitioning to solar power will provide a sustainable solution to reduce electricity expenses, resulting in significant cost savings.

2. Proposed Solar Power System:

We propose the installation of a solar power system on the SVPISTM campus. The system will include strategically placed solar panels on rooftops and open spaces to harness maximum sunlight. A detailed plan and feasibility study are attached herewith for your reference.

3. Financial Implications:

While there will be an initial investment for the implementation of the solar power system, we anticipate that the cost savings from reduced electricity bills will offset this expenditure over the coming years. We propose that implementation charges be adjusted within a reasonable time frame, considering the reduction in the electric bill in the subsequent years.

5. Benefits:

The transition to solar power will offer the following benefits:

Cost Savings: Significant reduction in electricity expenses, leading to long-term financial savings.

Environmental Impact: Contribution to the government's initiatives for clean energy adoption and sustainable development.

Educational Enhancement: The solar project can be integrated into the curriculum, offering students practical exposure to sustainable energy practices.

Comparison Electricity and Roof top Solar power

Daily Electricity consumption (Kwh)	:	370 units
Annually Consumption (Kwh)	:	133200 units
Proposed solar Capacity	:	100 Kwp
Estimated cost for proposed solar	:	Rs.50,00,000/-
Daily solar generation	:	300 kwh
Annual solar generation	:	108000 units
New electricity Import bill	:	Rs,25,200
New annual electricity bill	:	Rs.3,02,400
Annual savings due to rooftop solar	:	Rs.19,77,600

The transition to solar power is a progressive step towards a sustainable and financially viable future for SVPISTM. We sincerely appreciate the SECI for considering this proposal and look forward to your support in making our institution a leader in environmentally conscious education.

With Regards,

Dr.P.Alli Rani
Director

Rooftop Solar Data Collection Form

Table A:

Sr. No.	Particulars	Details
1	Name of Department	NIFT Bhubaneswar
2	Type of Establishment (CPSU/ State PSU/ Central Government/ State Government / Autonomous body under Central or State Government)	Central Autonomous Body
3	Head office address	NIFT Campus, Hauz Khas, Near Gulmohar Park, New Delhi 110016
4	Nodal Person for rooftop solar Name: Designation: Mobile Number: E-mail Id:	SANTOSH MURMU Junior Electrical Engineer 6200838942, 7542931097 Jeelectrical.bhubaneswar@nift.ac.in
5	States where entity has establishments and wants to explore rooftop solar	ODISHA

Within the state, please provide following details for the establishments (Refer Table-B)

6	Address of the establishment	NIFT Bhubaneswar, IDCO Plot No-24 Patia, BBSR			
7	Number of Buildings in Department	05 Nos			
8	Name of Electricity provider/ Distribution Company	TPCODL			
9	Sanctioned Load (kW)	263			
10	Total Capacity of All Distribution Transformer in Campus (kVA)	S.no	Rated Capacity (kVA)	High Voltage (HV) Side	Low Voltage (LV) Side
		1	500	11 KV	415V
		2	500	11 KV	415V
		3			
11	Total Electricity bill of preceding year (INR lakhs)	5012061/-			
12	Total no. of electricity units consumed in preceding year (kWh)	653964.92			
13	Land available for ground mounted (Yes/No)	NO			
14	Copy of Electricity Bill				
15	Any dues not paid to the electricity provider (pending for last six months or more)	NA			
16	Preferred tenure of PPA	25 years			
17	Existing Rooftop Plant Capacity if any (kW)	180			
18	Mode of Installation of Rooftop Solar Power Plant CAPEX/RESCO (Refer to Annexure-I)	RESCO			
19	Ceiling Tariff in case of RESCO Mode if required (Refer to Annexure-II)	4.0			
20	Maximum Energy Charge/ Tariff in Rs./kWh	5.85			

20/5/25

(Name & Sign of authorized Signatory)

Santosh Murmu

With Stamp

JE Elect.

NIFT Bhubaneswar

Table B:
Within establishment, please provide following details for the buildings:

Sr. No.	Building Name / Number	Total shadow free rooftop area (In Sq Mtrs)	Height of Building (Metres)	Building Age as on July 2021 (Years)	Connected Load / Incoming feeder rating (kW/kVA)	Please specify Roof Type (RCC/ GI Sheet/ Asbestos etc.)	Undisturbed availability of rooftop for solar plant life	Shadow Free Land Available for solar (In Sq Mtrs)	Building Latitude – Longitude Details
1	FD	800	10	9	60/500	RCC	YES	NA	~~Latitude~~ 20°21'06.0"N
2	AD	300	10	9	60/500	RCC	YES	NA	85°49'05.9" E

20/5/25

(Name & Sign of authorized Signatory)
With Stamp

Note: 1. Table-B may also to be provided in excel/word copy through mail.
2. The complete information may be provided at rooftopsolar@seci.co.in

Santosh Murmu
JE (Elect.)
NIFT Bhubaneswar

Annexure-I

Modes for Installation of Rooftop Solar Power Plant

In India, there are primarily two modes for the installation of rooftop solar power plants: CAPEX (Capital Expenditure) and RESCO (Renewable Energy Service Company). Both modes offer different ownership and financial models, catering to the diverse needs and preferences of consumers. Let's take a closer look at each mode:

1. **CAPEX (Capital Expenditure) Mode**: In the CAPEX mode, the rooftop solar power plant is owned by the consumer or building owner. The consumer bears the upfront capital expenditure for the design, installation, and commissioning of the solar PV system. Here's how it works:

    - Ownership: The consumer retains ownership of the solar power plant.
    - Investment: The consumer invests their own funds to purchase the solar panels and related equipment.
    - Operation and Maintenance: The consumer is responsible for the operation and maintenance of the solar system.
    - Savings and Benefits: The consumer enjoys the benefits of reduced electricity bills due to self-consumption of solar energy and may also have the option to sell excess electricity back to the grid under net metering or feed-in tariff schemes.
    - Payback Period: The payback period depends on the upfront investment and the amount of electricity generated, which can vary depending on the location and capacity of the solar system.

2. **RESCO (Renewable Energy Service Company) Mode**: In the RESCO mode, a third-party developer or Renewable Energy Service Company takes ownership of the rooftop solar power plant and provides solar energy to the consumer through a power purchase agreement (PPA). Here's how it works:

    - Ownership: The third-party RESCO developer retains ownership of the solar power plant.
    - Financing: The RESCO developer invests the upfront capital for the installation of the solar system.
    - PPA: The consumer (building owner) enters into a power purchase agreement (PPA) with the RESCO developer. The PPA defines the tariff rate, contract period, and other terms of the electricity purchase.
    - Operation and Maintenance: The RESCO developer is responsible for the operation and maintenance of the solar power plant during the contract period.
    - Savings and Benefits: The consumer benefits from the solar energy generated without the need for upfront investment and is billed for the electricity consumed at the agreed-upon tariff rate mentioned in the PPA.
    - Contract Period: The PPA is typically signed for a long-term contract period, usually ranging from 15 to 25 years.

Both modes have their advantages and suit different types of consumers based on their financial capabilities, risk appetite, and energy consumption patterns. The choice between CAPEX and RESCO modes depends on the preferences and requirements of the building owner or consumer.

Annexure-II

Mode	Zone-1	Zone-2	Zone-3	Zone-4	

	Ceiling Tariff (in Rs/kWh)	Discovered Tariff (in Rs/kWh)	Ceiling Tariff (in Rs/kWh)	Discovered Tariff (in Rs/kWh)	Ceiling Tariff (in Rs/kWh)	Discovered Tariff (in Rs/kWh)	Ceiling Tariff (in Rs/kWh)	Discovered Tariff (in Rs/kWh)	Tariff Discovered Month
RESCO	5.15	5.04	5.15	Not discovered	5.15	4.42	6.25	5.25	March, 2023
RESCO			No ceiling tariff	4.60					March, 2024

Zone I: Gujarat, Karnataka, Rajasthan, Tamil Nadu

Zone II: Andhra Pradesh, Maharashtra, Puducherry, Telangana, Dadra & Nagar Haveli and Daman & Diu, Madhya Pradesh

Zone III: Bihar, Chandigarh, Chhattisgarh, Delhi, Goa, Haryana, Jharkhand, Kerala, Odisha, Punjab, Uttar Pradesh, West Bengal

Zone IV: Lakshadweep, Uttarakhand, Andaman & Nicobar Islands, Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura

Note: Client may also propose own ceiling tariff or without ceiling tariff