



ODISHA RENEWABLE ENERGY DEVELOPMENT AGENCY
(Under Energy Department, Government of Odisha)
S-59, Mancheswar Industrial Estate, Bhubaneswar-751010
Ph: 91-674-2588260, Fax: 2586368

Web site: www.oredaorissa.com E-mail: ceoreda@oredaorissa.com

Letter No 438 OREDA

Dated 20/02/2023
PD/51/2021

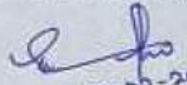
**Clarification to consolidated queries/suggestions by participants in
the pre-bid meeting**

A pre-bid meeting through VC and physical mode was held on 15:00 hrs of 10.02.2023 for e-tender notice no-232, dated 01.02.2023 regarding Request for Proposal (RFP) for the selection of Solar Power Generator (SPG) for the development of RTS Projects on government buildings under RESCO model in Odisha. Considering the queries/suggestions received from the Bidders in the Pre-Bid Meeting, a consolidated clarification is hereby provided as per annexure-1.

All the prospective bidders are also advised to kindly keep referring www.tenderwizard.com/OREDA and www.oredaorissa.com website for any updation before submission of their bids.

All other terms and conditions of the original tender document shall be remain same.

Yours faithfully


20.02.2023
Chief Executive

Clarification on queries raised during pre-bid meeting on 10/02/2023,						
Request for Proposal (RfP) for selection of Solar Power Generator (SPG) for the development of RTS projects on government buildings under RESCO model in Odisha						
S. No.	RfP/PPA clause no. and Description	Page no.	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
1	4.3.1	31	The Bidder must have the experience of installing and commissioning Grid connected Solar PV System of minimum 50% of the capacity for which it has submitted bid under this RFP, in last five (5) years from the last date of online submission of the Technical Bid anywhere in India. Bidder can show the experience of execution of the projects either individually or as a lead member of the JV.	There is no such clause in the RFP which can clarify if the Bidder can use the Technical strength of any of its Affiliate. Please consider our request to allow a bidder to use the Technical strength of any of its Affiliate.	Necessary addendum is issued	The Bidder must have the experience of installing and commissioning Grid connected Solar PV System of minimum 50% of the capacity for which it has submitted bid under this RFP, in last five (5) years from the last date of online submission of the Technical Bid anywhere in India. Bidder can show the experience of execution of the projects either individually or as a lead member of the JV. Note: Bidders are allowed to use credentials of their affiliates, where their holding is greater than equal to 26% for meeting Technical Qualification Requirement
2	1.3.4.1	14	Maximum tariff to be quoted by the Bidder for supply of energy to the beneficiary including taxes & duties shall not exceed INR 4.50 per kWh for 25 years.	The ceiling tariff proposed by OREDA tendering agency of Rs 4.50 per kWh as per clause no. 1.3.4.1 of the RFP is unrealistic, out of the sync of the current market prevailing conditions. This ceiling tariff has been fixed in light of the MNRE cost of Rs 36-38 per watt which is 30-40% lower than current input costs. Keeping the ceiling tariff of Rs 4.50 per kWh will kill the tender as there are likely to be limited participation of informed bidders. As you are aware that BCD on solar module of 44%, BCD of 22% on inverters and Increase in GST from 5 to 12% have taken place in last 2 years which is not factored in the ceiling price. We request you to increase the ceiling tariff to Rs 5.5 per unit or remove the ceiling so that the best prices can be discovered through the online bidding/e-RA.	Necessary addendum is issued	Maximum tariff to be quoted by the Bidder for supply of energy to the beneficiary including taxes & duties shall not exceed INR 4.80 per kWh for 25 years.
3	BDS 2.1.3, ITB clause 1.3.3.2	23	Cost of Bid, Bid Processing Fee, and Bid Security, and there shall be no exemption to any Bidder whatsoever.	We request to please consider all the MSME registered developers for exemption/reduction of Cost of Bid, Bid Processing Fee, and Bid Security.	No change, tender conditions will prevail	
4	BDS 2.1.6, ITB Clause 1.6.4.3	25	Performance Bank Guarantee is 5 Lakhs INR per MW	PBG of Rs 5 Lakh per MW is not as per the industry practice. Higher PBG will lead to blocking of additional working capital for the bidders thus that will lead to higher tariffs for the tendering agency. Thus we hereby request you to reduce the PBG per MW to Rs 2 lakh per MW.	No change, tender conditions will prevail	
5	BDS - 2.1.3, ITB - 1.3.3.2,	23	Bid security 2 Lakh/MW	Local MSME EPC will be exempted from BID security?	No change, tender conditions will prevail	
6	SOW - 3.2.1.14	27	The SPG is required to maintain a minimum AC capacity CUF of 15% and a maximum CUF of 18.7% provided it is less than 90% of total electricity consumption (Solar + Discom electricity)	Kindly describe the point briefly	Annual generation from the solar plant should achieve a minimum AC capacity CUF of 15% (with applicable tolerance band) and maximum of 90% of the total electricity consumption of the respective beneficiary	
7	QR - 4.3.1	31	The bidder must have the experience of installing and commissioning of grid connected solar PV system of minimum 50% of the capacity for which it has submitted bid under RFP	Local MSME may be given some concession i.e 25% of the project capacity	No change, tender conditions will prevail	

S. No.	RfP/PPA clause no. and Description	Page no.	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
8				Requesting to add the data of Rooftop details, transformer capacity in the data room	Available Rooftop space, Connected Load and monthly consumption data is provided for the sites in a datafile / dataroom in the tender wizard portal Alternative link: https://drive.google.com/drive/folders/1K11b3F85BIKEeX08jIuceG9e70dDhVpB	
9				Requesting to provide coordinates of the buildings in the data room	The site coordinates of the buildings will be added in the datafile / dataroom Alternative link: https://drive.google.com/drive/folders/1K11b3F85BIKEeX08jIuceG9e70dDhVpB	
10	1.3.4.1	14		Capping on Tariff is Rs.4.50 per kWh. Its should be removed or increased to Rs.5.00 per kWh	Necessary addendum is issued	Maximum tariff to be quoted by the Bidder for supply of energy to the beneficiary including taxes & duties shall not exceed INR 4.80 per kWh for 25 years.
11	ITB - 1.3.4.3 & PPA - 3.1	15	The Bid prices in the Price Bid shall be made on the Project Group basis, and the Bidder shall be responsible for bringing all Equipment to be used in this Project at the Project Site and maintain it in their safe custody as per the terms and conditions of the RFP.	Building occupier shall provide storage space inside the premises	Necessary addendum is issued	PPA Clause 3.1.3 is being inserted as follows - "Provide space inside their premises to the SPG for storing the material or equipment"
12	Clause 1.6.3.4	21		Sl. no. 2 onwards 30 days may please be added to the timeline	No change, tender conditions will prevail	
13	SOW - 3.2.1.14 & PPA - 4.2.1	27	The SPG is required to maintain a minimum AC capacity CUF of 15% and a maximum CUF of 18.7% provided it is less than 90% of total electricity consumption (Solar + Discom electricity)	Min CUF 15% : Radiation Correction may be allowed or tolerance of -10% may please be given, as no rooftop in Odisha is achieving even 13% CUF	Necessary addendum is issued	The SPG is required to maintain annual AC capacity CUF of 15%. The SPG is allowed a tolerance band of -10% till the end of the PPA term from COD (i.e., upto 13.5%), and a maximum of 90% of total electricity consumption of the respective beneficiary (Solar + Discom electricity)
14	SOW - 3.2.1.19 & PPA - 1.1	28	The selected SPG shall commission the Project within nine (9) months from date of issuance of LoA. The SPG may commission the Project during this period of nine (9) months and the beneficiary is obliged to purchase power from the commissioned Project at any time after the issuance of LoA.	Project Completion time is given 9 months but in PPA 6 months is mentioned	Project completion timeline is 9 months from LoA and 6 months from PPA	"Scheduled Commissioning Date" or "SCD/SCOD" of the Project shall mean [Insert date that is six (6) Months from the Effective Date];
15	SOW - 3.2.1.22	28	The SPG shall be responsible for any water leakage or seepage due to project construction work on the roof during the installation of rooftop solar (RTS) plants and also during the O&M period of initial 3 years. In case of leakage during the above mentioned period, necessary repair by specialized agency approved by OREDA must be carried out by the Contractor immediately without any cost implications to OREDA, failing which PBG amount will be forfeited on pro rata basis for the respective building.	Once the method of installation is approved by the beneficiary then water proofing responsibility shall not be on the generator.	No change, tender conditions will prevail	

S. No.	RfP/PPA clause no. and Description	Page no.	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
16	Bid Form 9 - 5.1.9	49	We, the undersigned, declares that we have a copy of the ISO certificate for ISO 9001 and will submit the copy of the ISO 14001 certificate in the name of the Original Equipment Manufacturer (OEM), supported by a letter of authorization from the OEM	Quality Assurance: BIS quality certification equivalent to ISO standards is also available. Hence it should be changed to ISO or comparable / equivalent standards for better participation	Necessary addendum is issued	We, the undersigned, declares that we have a copy of the ISO certificate for ISO 9001 or equivalent IEC or equivalent BIS standards and will submit the copy of the ISO 14001 certificate or equivalent IEC or equivalent BIS standards in the name of the Original Equipment Manufacturer (OEM), supported by a letter of authorization from the OEM
17	5.7.	67	Tentative Details of Project Sites under RESCO-I Program	The Tentative details of the Department of Health's identified projects are not detailed enough for identification of the project capacity. Kindly share the preliminary assessment report of the sites identified or details of the identified sites along with addresses and single point nodal persons.	Available Rooftop space, Contract Demand and monthly consumption data is provided for the sites in the Data file / Data room Alternative link: https://drive.google.com/drive/folders/1K1Ib3F85BIKEeX08jIuceG9e70dDhVpB	
18	5.7.	67	Clause 5.7. -Tentative Details of Project Sites under RESCO-I Program	Details of Gangadhar Meher University and Fakir Mohan University are not provided. Kindly share the preliminary assessment report of the sites identified or details of the identified sites along with addresses and nodal persons.	Available Rooftop space, Contract Demand and monthly consumption data is provided for the sites in the Data file / Data room Alternative link: https://drive.google.com/drive/folders/1K1Ib3F85BIKEeX08jIuceG9e70dDhVpB	
19	5.7.	67	Clause 5.7. -Tentative Details of Project Sites under RESCO-I Program	Requesting to kindly provide the No. of Meter Connection of each identified Beneficiary, Contract Demand, Transformer Capacity and Shadow Free Area of each identified roof,	Available Rooftop space, Contract Demand and monthly consumption data is provided for the sites in the Data file / Data room Alternative link: https://drive.google.com/drive/folders/1K1Ib3F85BIKEeX08jIuceG9e70dDhVpB	
20	PPA: 1.1 - Definition	7	Shall mean the ratio of plant output versus installed plant capacity at any instance with respect to the radiation measured. $PR = (\text{Measured output in Kw}) / (\text{Installed Plant capacity}) \times (1000 \text{ W/m}^2) / (\text{Measured Radiation intensity in W/m}^2)$	Query: Formula of PR to be corrected (Measured Output in kW / Installed Capacity in kWp) x (1000W/m ² / Measured Radiation Intensity in W/m ²)	Necessary addendum is issued	Shall mean the ratio of plant output versus installed plant capacity at any instance with respect to the radiation measured. $PR = (\text{Measured output in Kw}) / (\text{Installed Plant capacity in Kw}) \times (1000 \text{ W/m}^2) / (\text{Measured Radiation intensity in W/m}^2)$
21	PPA 3.2.4	9	Successful COD of the Project within six (6) Months from the Effective Date of PPA unless there is an extension provided as per Article 4.4 and there are delays attributable to the reasons listed therein.	COD of the project is 6 months. Please increase it to 9 Months	No change, tender conditions will prevail	
22	PPA 4.1.1.2	10	Obtaining all Consents, Clearances and Permits as required and maintaining all documents throughout the Term of this Agreement relating to the rooftop solar pv system	OREDA to provide letter of recommendation	Please refer to clause 3.2.2.1 in RFP. No change, tender conditions will prevail	

S. No.	RfP/PPA clause no. and Description	Page no.	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
23	PPA 4.5.1	12	If the SPG is unable to achieve the COD of the Project by the Scheduled Commissioning Date (SCOD) other than for the reasons specified in Article 4.4.1, the SPG shall pay to Beneficiary, liquidated damages for the delay in such commissioning and making the Contracted PPA Capacity available for dispatch by the Scheduled Commissioning Date as per the following: Delay beyond the Scheduled Commissioning Date up to (& including) the date as on twenty (20) weeks from the SCOD, the Nodal Agency (OREDA) shall have the right to impose penalty equivalent to 5% of PBG value per week up to 20 weeks.	For delay in commissioning the generator has to pay LD to the beneficiary and penalty imposed by OREDA. This means double penalty, please clarify	No it is single penalty, Necessary addendum is issued	If the SPG is unable to achieve the COD of the Project by the Scheduled Commissioning Date (SCOD) other than for the reasons specified in Article 4.4.1, the SPG shall pay to OREDA, liquidated damages for the delay in such commissioning by the Scheduled Commissioning Date as per the following: Delay beyond the Scheduled Commissioning Date up to (& including) the date as on twenty (20) weeks from the SCOD, OREDA shall have the right to impose penalty by encashing PBG equivalent to 5% per week up to 20 weeks.
24	PPA 4.5.2	12	The maximum time period allowed for achieving the COD of the full Project Capacity with encashment of Performance Bank Guarantee shall be limited to eleven (11) Months from the Effective Date (PPA Date).	Please change 11 months to 14 months	No change, tender conditions will prevail	
25	PPA 4.9.2.1	14		Does beneficiary means building occupier? Beneficiary word is used for both the power purchaser and building owner	Yes	
26	PPA 4.9.2.1	14		Disassemble or move Shifting costs should be fixed to avoid any confusion in future event	No change, tender conditions will prevail	
27	PPA 4.9.2.3	14	The SPG is responsible for the waterproofing of the roof disturbed/ pierced for installation of Project for the O&M period of first three (3) Operational Years.....	Once method of installation is approved by the beneficiary then waterproofing responsibility shall not be on the generator. This clause to be amended.	No change, tender conditions will prevail	
28	PPA 6.1.1	15	For installation of meters, meter testing, meter calibration, meter reading and all matters incidental thereto, the SPG and Beneficiary shall follow and be bound by the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, the Odisha Grid Code, as amended and revised from time to time.	Addition "OERC Net Metering Guidelines"	Necessary addendum is issued	For installation of meters, meter testing, meter calibration, meter reading and all matters incidental thereto, the SPG and Beneficiary shall follow and be bound by the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, the Odisha Grid Code, OERC Net Metering Guidelines and any other releavnt regulations and / or guidelines as amended and revised from time to time.
29	PPA 7.1	15		Insurance: In case of stolen materials (copper cable, earthing cable etc) the building owner shall have to give FIR as police doesn't take FIR of SPG. FIR needed for insurance claim. Necessary addition and amendment is sought	Necessary addendum is issued	PPA Clause 7.1.2 is being inserted as follows - "Beneficiary shall facilitate the SPG in raising necessary claims with insurance policy companies by providing requisite documentation wherever necessary"
30	PPA 9.3.2	16	Health & Family Welfare Department shall make payment to the power consumption bills centrally after receipt of the certified bills from the concerned authorities of the facilities along with utilisation statement regarding consumption and utilisation of power through the DHS(O) in case of DHHs & peripheries as well as DMET(O) for Govt. Medical Colleges.	Beneficiary to pay first regardless of the payment received or not as per 9.3.2	There is no dependency on Hospitals or DHH for making payments by Health & Family Welfare Department. No change, tender conditions will prevail	
31	PPA 9	16		The procedure of JMR (Joint Meter Reading) to be defined including the person responsible from all related parties	Necessary addendum is issued	PPA Clause 9.1.3 is being inserted as follows - "Meter reading shall be done as per the prevailing DISCOM procedure with co-ordination between SPG, Beneficiary and DISCOM personnel"

S. No.	RfP/PPA clause no. and Description	Page no.	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
32	PPA 11	21	Change in Law	The SPG / Beneficiary shall be entitled to compensation by the other party. Beneficiary to be deleted	No change, tender conditions will prevail	
33	PPA11.2.2	22	In order to pass on the impact of Change in Law in the tariff quoted by the Successful Bidder, Nodal Agency (OREDA) shall consider the following distribution percentages of the Normative Capital Cost of the Project: i. Solar Module – 56.4% a. Solar Cell – 60% of the Solar Module Cost ii. Inverter – 9% iii. BOS – 18.4% iv. Installation & Commissioning – 16.2%	In the distribution percentage of the Normative Capital Cost of the project; Installation and Commissioning is given 16.2% and BOS 18.4%. I&C shall be less and BOS shall be more. Seeking an amendment to I&C 10% & BOS 24.6%	No change, tender conditions will prevail	
34	Clause 12.2.1	23	Beneficiary fails to pay (with respect to a Monthly Bill or a Supplementary Bill), subject to Article 9.5, for a period of ninety (90) days after the Due Date and the SPG is unable to recover the amount outstanding to the SPG through the Letter of Credit,	Beneficiary event of Default: Non Payment of bill for 60 days instead of 90 days	Necessary addendum is issued	Beneficiary fails to pay (with respect to a Monthly Bill or a Supplementary Bill), subject to Article 9.5, for a period of sixty (60) days after the Due Date and the SPG is unable to recover the amount outstanding to the SPG through the Letter of Credit,
35				Kindly clarify if there is any Rent applicable on the SPG for the space provided for Installation.	No Rent applicable	

Summary of estimated RTS capacity in RESCO-1 program

Summary	
Institution type	Feasible Solar Capacity (kW)
DHH	6,378
MC	3,176
Edu	159
Total	9,712

Group wise estimated RTS Capacity	
Group	Feasible Solar Capacity (kW)
A1 (Medical Colleges)	3,176
B1 (DHH/ institutes in Central & South)	3,026
B2 (DHH/ institutes in North & Western)	3,511
Total	9,712

6 446 kW avg. capacity

Details of RTS capacity on medical colleges (Group A1)

Building Type	MC
Group	A1
District	Feasible Solar Capacity (kW)
Balasore	576
Cuttack	292
Ganjam	298
Keonjhar	500
Puri	458
Sambalpur	552
Sundergarh-MC	500
Grand Total	3,176

17 356 kW avg. capacity

Details of RTS capacity on DHH/ institutes in Central & South districts (Group B1)

Group	B1	
Building Type	DHH	
District	Feasible Solar Capacity (kW)	Sum of Field1
Angul	322	-
Cuttack	109	-
Dhenkanal	70	-
Ganjam	141	-
Jagatsinghpur	184	-
Kandhamal	-	-
Khurdha	433	-
Nayagarh	500	-
Puri	-	-
Rayagada	313	-
Boudh	-	-
Gajapati	141	-
Kendrapara	127	-
Koraput	178	-
Malkangiri	260	-
Nabarangpur	222	-
Khurdha- Capital Hospital	27	-
Grand Total	3,026	

4 551 kW avg. capacity

Details of RTS capacity on DHH/ institutes in North & West districts (Group B2)

Group	B2
Building Type	(Multiple Items)
District	Feasible Solar Capacity (kW)
Balasore	500
Bargarh	378
Jaipur	134
Jharsuguda	306
Nuapada	439
Sambalpur	-
Sonepur	150
Bhadrak	296
Balangir	500
Deogarh	43
Kalahandi	-
Keonjhar	-
Mayurbhanj	19
Sundergarh-DHH	322
Sundergarh(Rourkela) DHH	265
Balasore- FM Colg	16
Sambalpur-GMU	143
Grand Total	3,511

Sr. no	District	Building Type	Site name	Group	Contract demand (KW)	Shadow free roofarea (Sq. mtr.)	Average Electricity Consumption (kVAh/Month)	Yearly Electricity Consumption (kVAh/Year)	Yearly Electricity Consumption (kWh/Year)	Required Solar Capacity (kW)	Feasible Capacity (@90% consumption limit)	Feasible Solar Capacity (kW) (As per atleast 2 data points)	Remarks
1	Angul	DHH	DHH Angul- 1	B1	159	3,054	57,008	684,096	649,891	495	445.13	159	Only 1 month electricity bill is available. Cumulative area was only given
2	Angul	DHH	DHH Angul- 2	B1	163	3,054	41,664	499,968	474,970	361	325.32	163	Only 1 month electricity bill is available. Cumulative area was only given
3	Balasore	DHH	DHH Balasore	B2	582	14,006	168,926	2,027,114	1,925,758	1,466	1,319.01	500	
4	Barqarh	DHH	DHH Barqarh	B2	393	4,194	48,396	580,752	551,714	420	377.89	378	
5	Bhadrak	DHH	DHH Bhadrak	B2	345	42,274	37,892	454,703	431,968	329	295.87	296	
6	Balanqir	DHH	DHH Balanqir	B2	1,487		101,529	1,218,348	1,157,431	881	792.76	500	
7	Boudh	DHH	DHH Boudh	B1			-	-	-	-			Data is not available with OREDA. Selected vendor need to do the feasibility study
8	Cuttack	DHH	DHH Cuttack	B1	109	27,275	30,540	366,481	348,157	265	238.46	109	
9	Deogarh	DHH	DHH Deogarh	B2	43	809	-	-	-	-		43	
10	Dhenkanal	DHH	DHH Dhenkanal	B1	348	30,930	8,903	106,833	101,491	77	69.51	70	
11	Gaiapati	DHH	DHH Gaiapati	B1	141	2,077	33,789	405,472	385,199	293	263.83	141	
12	Ganjam	DHH	DHH Ganjam	B1	141	64,226	23,485	281,820	267,729	204	183.38	141	
13	Jagatsinghpur	DHH	DHH Jagatsinghpur	B1	237	1,839	43,135	517,622	491,740	374	336.81	184	
14	Jaipur	DHH	DHH Jaipur-1	B2	19	470	25,862	310,346	294,829	224	201.94	19	
15	Jaipur	DHH	DHH Jaipur-2	B2	283	1,146	28,346	340,152	323,144	246	221.33	115	
16	Jharsuguda	DHH	DHH Jharsuguda	B2	306	32,000	78,726	944,712	897,476	683	614.71	306	
17	Kalahandi	DHH	DHH Kalahandi (Solar not required)	B2			-	-	-	-			Projects already been carried out by OREDA. Vendor need to check for the available capacity of solar plant and required capacity of DHH
18	Kandhamal	DHH	DHH Kandhamal (Solar not required)	B1			-	-	-	-			Projects already been carried out by OREDA. Vendor need to check for the available capacity of solar plant and required capacity of DHH
19	Keonjhar	DHH	DHH Keonjhar	B2			-	-	-	-			Data is not available with OREDA. Selected vendor need to do the feasibility study
20	Kendrapara	DHH	DHH Kendrapada	B1	127	4,097	38,781	465,370	442,101	336	302.81	127	
21	Khurdha	DHH	DHH Khurdha-1	B1	325		24,390	292,680	278,046	212	190.44	190	
22	Khurdha	DHH	DHH Khurdha-2	B1	125		18,837	226,044	214,742	163	147.08	125	
23	Khurdha	DHH	DHH Khurdha-3	B1	20		524	6,286	5,972	5	4.09	4	
24	Khurdha	DHH	DHH Khurdha-4	B1	88		3,489	41,863	39,770	30	27.24	27	
25	Khurdha	DHH	DHH Khurdha-5	B1	97		11,137	133,639	126,957	97	86.96	87	
26	Khurdha- Capital Hospital	DHH	Capital Hospital Bhubaneswar-1	B1	7								Insufficient Data Data is not available with OREDA. Selected vendor need to do the feasibility study
27	Khurdha- Capital Hospital	DHH	Capital Hospital Bhubaneswar-2	B1	27	372							27
28	Khurdha- Capital Hospital	DHH	Capital Hospital Bhubaneswar-3	B1	15								Insufficient Data Data is not available with OREDA. Selected vendor need to do the feasibility study
29	Koraput	DHH	DHH Koraput	B1	178	4,353	24,092	289,098	274,643	209	188.11	178	
30	Malkangiri	DHH	DHH Malkangiri	B1	693	2,600	55,664	667,962	634,564	483	434.63	260	
31	Mayurbhani	DHH	DHH Mayurbhani-1	B2	3	465	912	10,944	10,397	8	7.12	3	
32	Mayurbhani	DHH	DHH Mayurbhani-2	B2	4	900	1,622	19,465	18,491	14	12.67	4	
33	Mayurbhani	DHH	DHH Mayurbhani-3	B2	10	210	596	7,152	6,795	5	4.65	5	
34	Mayurbhani	DHH	DHH Mayurbhani-4	B2	18	180	1,004	12,049	11,447	9	7.84	8	
35	Nabarangpur	DHH	DHH Nabarangpur-1	B1	90	3,300	-	-	-	-		90	
36	Nabarangpur	DHH	DHH Nabarangpur-2	B1	65	3,300	-	-	-	-		65	
37	Nabarangpur	DHH	DHH Nabarangpur-3	B1	41	3,300	-	-	-	-		41	
38	Nabarangpur	DHH	DHH Nabarangpur-4	B1	26	3,300	-	-	-	-		26	
39	Nayagarh	DHH	DHH Nayagarh	B1	557	5,640	-	-	-	-			Data is not available with OREDA. Selected vendor need to do the feasibility study
40	Nuapada	DHH	DHH Nuapada	B2	820	44,000	56,215	674,574	640,845	488	438.94	439	
41	Puri	MC	MC & Hospital Puri	A1	553	12,432	58,714	704,571	669,343	509	458.45	458	
42	Rayagada	DHH	DHH Rayagada-1	B1	253	1,486	33,461	401,526	381,450	290	261.27	149	
43	Rayagada	DHH	DHH Rayagada-2	B1	116	1,486	2,067	24,804	23,564	18	16.14	16	
44	Rayagada	DHH	DHH Rayagada-3	B1	404	1,486	33,452	401,424	381,353	290	261.20	149	
45	Sambalpur	DHH	DHH Sambalpur	B2			-	-	-	-		500	Projects already been carried out by SELCO
46	Sonepur	DHH	DHH Sonepur	B2	221	1,500	-	-	-	-		150	
47	Sundergarh-DHH	DHH	DHH Sundergarh-1	B2	140	423	9,847	118,164	112,256	85	76.89	42	
48	Sundergarh-DHH	DHH	DHH Sundergarh-2	B2	343	974	23,574	282,888	268,744	205	184.07	97	
49	Sundergarh-DHH	DHH	DHH Sundergarh-3	B2	242	1,826	50,644	607,728	577,342	439	395.44	183	
50	Sundergarh-MC	MC	Govt. Medical College, Sundergarh	A1	2,872	14,858						500	Incomplete information
52	Sundergarh(Rourkela) DHH	DHH	DHH Rourkela-1	B2	163	1,056	50,334	604,008	573,808	437	393.02	106	
53	Sundergarh(Rourkela) DHH	DHH	DHH Rourkela-2	B2	312	3,297	20,437	245,244	232,982	177	159.58	160	
54	Ganjam	MC	MC & Hospital Berhampur	A1	2,410	66,461	38,164	457,968	435,070	331	297.99	298	

Sr. no	District	Building Type	Site name	Group	Contract demand (KW)	Shadow free roofarea (Sq. mtr.)	Average Electricity Consumption (kVAh/Month)	Yearly Electricity Consumption (kVah/Year)	Yearly Electricity Consumption (kWh/Year)	Required Solar Capacity (kW)	Feasible Capacity (@90% consumption limit)	Feasible Solar Capacity (kW) (As per atleast 2 data points)	Remarks	
55	Keonjhar	MC	Govt. Medical college Keonjhar	A1	738	5,492	117,582	1,410,984	1,340,435	1,020	918.11	500		
56	Sambalpur	MC	VIMASAR Medical college-1	A1	94	28,496	16,270	195,240	185,478	141	127.04	94		
57	Sambalpur	MC	VIMASAR Medical college-2	A1	25		6,228	74,736	70,999	54	48.63	25		
58	Sambalpur	MC	VIMASAR Medical college-3	A1	403		37,474	449,688	427,204	325	292.61	293		
59	Sambalpur	MC	VIMASAR Medical college-4	A1	374		1,090	13,080	12,426	9	8.51	9		
60	Sambalpur	MC	VIMASAR Medical college-5	A1	258		8,164	97,968	93,070	71	63.75	64		
61	Sambalpur	MC	VIMASAR Medical college-6	A1	150		3,051	36,611	34,781	26	23.82	24		
62	Sambalpur	MC	VIMASAR Medical college-7	A1	4		68,151	817,808	776,918	591	532.14	4		
63	Sambalpur	MC	VIMASAR Medical college-8	A1	40		23,679	284,153	269,946	205	184.89	40		
64	Balasore	MC	FM Medical College -1	A1	402		9,704	116,447	110,625	84	75.77	76		
65	Balasore	MC	FM Medical College -2	A1	859		69,457	833,485	791,811	603	542.34	500		
67	Cuttack	MC	SCB Medical college-1	A1	176	1750						175		
68	Cuttack	MC	SCB Medical college-2	A1		1380							Insufficient Data	Data is not available with OREDA. Selected vendor need to do the feasibility study
69	Cuttack	MC	SCB Medical college-3	A1	869	1168							117	
70	Cuttack	MC	SCB Medical college-4	A1									Insufficient Data	Data is not available with OREDA. Selected vendor need to do the feasibility study
71	Sambalpur-GMU	Edu	Gangadhar Meher University	B2	245	1,427							143	
72	Balasore- FM Colg	Edu	FM Autonomous College (East campus)	B2	16	9363							16	
73	Balasore- FM Colg	Edu	FM Autonomous College (New commerce building)	B2		10650							Insufficient Data	Selected vendor need to do the feasibility study for

*Annual Electricity Expenses are calculated on the basis availability of month wise electricity bill.

Building wise electricity bills, with details like transformer capacity and geographical coordinates can be found in the fo <https://drive.google.com/drive/folders/1K1lb3F85BIKEeX08juceG9e70dDHVpB>