



**ODISHA RENEWABLE ENERGY DEVELOPMENT AGENCY**  
Under the Department of Energy  
Government of Odisha  
( ISO 9001:2008 / ISO 14001:2004 )  
**S/59, MANCHESWAR INDUSTRIAL ESTATE**  
**BHUBANESWAR-751010, ODISHA**

Website : [www.oredaodisha.com](http://www.oredaodisha.com) E-mail : [ceoreda@oredaorissa.com](mailto:ceoreda@oredaorissa.com)

Letter No 1675 /OREDA

Dated. 25 / 05 / 2023

**Corrigendum to the e-tender Notice No- 1311 dated 28<sup>th</sup> April 2023 for Design, Engineering, Supply, Installation, Testing and Commissioning of "Solar projects at 20 OPTCL sub-stations in Odisha" along with Comprehensive Maintenance for Five (5) years.**

It is for information of all concerned that, in view of the queries received from the bidder(s), following Corrigendum, Addendum and clarification have been carried out in the e-tender Notice No – 1311.

**Extension of date of the schedule of Events:**

Sl No.	Name of Event	As mentioned in e-tender Notice	Proposed Amendment
1	Date of publication of RFP on E-procurement website and OREDA website	28-04-2023	28-04-2023
2	Due date of pre bid query submission	09-05-2023 up to 5.00 PM	09-05-2023 up to 5.00 PM
3	Date and time of pre-bid meeting through virtual mode <a href="https://meet.google.com/gqn-pafp-fts">https://meet.google.com/gqn-pafp-fts</a>	11-05-2023 at 11.30 AM	11-05-2023 at 11.30 AM
4	Due date and time for submission of online copies of Technical Bid and price bid.	30-05-2023 up to 5.00 PM	<b>07-06-2023 up to 5.00 PM</b>
5	Due date and time for submission of hard copies of Technical Bid for select Bid Forms only	02-06-2023 up to 1.30 PM	<b>09-06-2023 up to 1.30 PM</b>
6	Due date and time for the opening of Technical Bid for both online copies and hard copies, except price bid.	02-06-2023 up to 3.30 PM	<b>09-06-2023 up to 3.30 PM</b>
7	Due date and time for the opening of online price bid applicable only for the bidders whose Technical bids shall be responsive.	To be intimate later	To be intimate later

All the prospective bidders are advised to kindly keep referring [www.tenderwizard.com/OREDA](http://www.tenderwizard.com/OREDA) and [www.oredaorissa.com](http://www.oredaorissa.com) website for periodic updates.

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

Yours Faithfully


  
25.5.2023.

Chief Executive

Memo No. 1676 /OREDA

Date 25 / 05 /2023

Copy forwarded to The Executive Director, Central Zone, OPTCL, Bhubaneswar / Director (operation), OPTCL Head Quarters for kind information.



Chief Executive

Memo No. 1677 /OREDA

Date 25 / 05 /2023

Copy forwarded to M/S KEONICS, A Govt. of Karnataka Undertaking, No.29/1, Race course Road, Bangalore- 560 001 for information and necessary action.



Chief Executive

Memo No. 1678 /OREDA

Date 25 / 05 /2023

Copy forwarded to the Director (Admin) / All Divisional Heads / Publicity Wing / Notice Board / Website of OREDA i.e. [www.oredaodisha.com](http://www.oredaodisha.com) for information and necessary action.



Chief Executive

## Addendum to the e-tender Notice – 1311, dated 28.04.2023

Design, Engineering, Supply, Installation, Testing and Commissioning of 910 kW Solar power projects along with Comprehensive Maintenance for Five (5) years at 20 OPTCL substations in Odisha.						
Clarification on queries raised during pre-bid meeting on 11/05/2023						
NIT no: 1311						
Dated 28/04/2023						
Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
1				Kindly clarify this project is On-Grid, Off-Grid or Hybrid type.	This is an on-grid project	
2				Kindly clarify here mention as many things like Battery Backup system, Charge controller, Dcdb. It's required or not, If required what the system will be.	No battery backup and charge controller required. Rest all materials will be as per the specification provided in 7.5.  Necessary addendum issued	Clause no 7.5 point no. b stands deleted
3	107	7.5.1.7. CABLES & WIRINGS	a) All copper flexible cables should comply with IS651 and make should be Polycab, Havells or equivalent.	Kindly clarify In case of AC Cable can we use Aluminum Conductor Cable or not.	No. Tender conditions shall prevail	
4		7.5.1.2. ARRAY/MODULE MOUNTING STRUCTURE:		Kindly clarify whether the use of the Pre-galvanized/ Galvanized type structure is allowed or not.	Please refer to RFP document point 7.5.1.2	
5				Kindly share the tentative AC Cable length which needs to be considered for each power plant, from for each power plant basically the inverter to building ACDB.	It will be finalized by the bidder during pre feasibility assessment.  No addendum required	

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
6				Kindly share if possible the Geo coordinates and roof layout of each building for a better understanding of the site.	Please refer to point no. 1.2.2.5.	
7				Kindly confirm whether external AJB is mandatorily required or not as nowadays the inverter comes with an inbuilt AJB facility	The bidder is require to follow the OERC net metering guidelines for approved SLD. <a href="https://orierc.org/OERCOLD/Order%20on%20OERC%20Net%20Metering%20(August%202016%20as%20amended%20upto%2017.01.2018).pdf">https://orierc.org/OERCOLD/Order%20on%20OERC%20Net%20Metering%20(August%202016%20as%20amended%20upto%2017.01.2018).pdf</a>	
8				Kindly clarify whether all the plants terminated on LT 415 volts	Please refer to point no. 1.2.2.5.	
9		4.3.1 technical qualification	The Bidder must have the experience of installing and commissioning RSPS on govt. organisations, any other establishment registered under the Society Registration Act, 1860 or The Indian Trust Act, 1882 for a capacity of 900 kW during last five (5) years from the last date of online submission of the Technical Bid in India.	We request you to kindly reduce the PO capacity under technical criteria.	Necessary addendum issued	The Bidder must have the experience of installing and commissioning RSPS on govt. organisations, any other establishment registered under the Society Registration Act, 1860 or The Indian Trust Act, 1882 for a capacity of 550 kW during last five (5) years from the last date of online submission of the Technical Bid in India.

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
10	Page 57	6.1.1 Payment Term	a) <b>On supplying of materials</b> - Fifty percent (50%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order	a) We are requesting to consider at least Eighty percent (80%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order	Tender conditions shall prevail	
11			b) <b>On achievement of Commissioning of the Project</b> - Forty percent (40%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order.	b) We are requesting please limiting to Ten percent (10%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order.	Tender conditions shall prevail	
12			c) <b>On achievement of Acceptance of the Project</b> - Ten percent (10%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Work Order.	c) On achievement of Acceptance of the Project- Ten percent (10%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order.	Tender conditions shall prevail	
13			d) <b>On Successful Completion of CMC for each year (Year 1 to Year 5)</b> - Two percent (0.6%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Work Order	d) Please justify on this Two percent (0.6%) of the Initial Capex along with applicable tax.	Necessary addendum issued	Two percent (2%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
14	Page 24	2.1.3.Estimated Cost	Estimated Cost (INR)- 5,12,75,852	With Referring to the Bid Form 19 (Price Bid - Category A Bidder) in Page-90, mentioned the quoting price is exclusive of GST. So, assuming this Estimated Cost (INR)- 5,12,75,852 is exclusive of GST as well.	The estimated cost provided in the tender is inclusive of GST. The bidder has to provide the cost exclusive of taxes in the price bid.	
15	Page 24	2.1.3.Cost of Bid & Bid Security	The Bidder who is exempted to pay the Cost of Bid and Bid Security Fee shall produce the relevant certificates issued by the Government.	Please mention the certificates required to avail exemption.	Please refer to point no. 4.1.2 in the RFP document	
16	Page 103	7.5.1.5 Power Conditioning Unit (PCU)	The inverter will be highly efficient and 1.5 times the capacity of the solar project capacity.	In General in market maximum 120KW rating is not readily available, but for 100KW Plant, as per tender clause, we suppose to place 150KW rated capacity. In this scenario can we split the capacity as 2 Inverters ( Say for 100KW Plant, 150KVA is to be proposed, to meet that capacity can we consider 100KVA of 1 Inverter & 50KVA of another Inverter)	Yes bidder can provide combination of 2 inverters	

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
17	131	7.8	Required Inverter size (50% oversize)	Can we consider the DC Overloading capacity of Solar On-grid inverter while selection of On-grid inverter (i.e. 150% higher rated planning rating).	No. DC overloading is not allowed	
18				Can we use the combination of On-grid inverter ratings for the highlighted On-grid solar power plant?	Yes you can use combination of on grid inverters	
19	24	2.1 ITB clause 1.3.3.2 and ITB clause 1.3.3.3	Bid Security/EMD: Rs.15,39,000	We would like to inform you that we are a registered MSME unit as per Govt. of Odisha Finance Department Notification No.-27928/F dated 16th Oct 2020 the following provisions and benefits are mentioned below:	As per the Tender conditions shall prevail	

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
20				Please confirm incase of JV or consortium by one Odisha MSME with another EPC Player what are the documents required for submitting the tender	necessary addendum issued	<p>A company developing a Project or a Member in a Consortium/ JV developing a Project; and control means ownership by one company of at least 26% (twenty six percent) of the voting rights of the other company.</p> <p>Lead member shall mean the lead member of the Consortium/ JV, who has always more than fifty percent (50%) subscribed and paid-up equity share capital of the Consortium/ JV until the first year of operation from COD and is designated as the lead member of the Consortium/ JV by the Other Members of the Consortium/ JV criteria: JV to represent them in the Bid, as per the terms of the RFP. The bid form is attached in annexure of the corrigendum</p> <p>In case of JV or consortium the lead member will submit the bid forms along with power of attorney issued by respective companies.</p> <p>In case of a Consortium/ JV, It can be noted that a new SPV shall be formed by the members of the Consortium/ JV mandatorily for developing the Project under The Companies Act, 2013. The Successful Bidder shall submit the registration certificate of the SPV within a maximum time period of sixty (60) Days from the date of LoA. Further, the Bidder shall submit the PAN and GST certificate of the SPV within a maximum time period of sixty (60) Days from the date of LoA.</p> <p>In case of JV/consortium the bidder must submit the JV/consortium agreement provided in the annexure.</p>



						<p>Bidder can show the experience of execution of the projects either individually or as a lead member of the JV</p> <p>Bidders are allowed to consolidate the net worth or annual turnover of affiliates, where their holding is greater than equal to 26%, for calculation of net worth or average turnover in order to become eligible under this tender.</p>
21	29	2.1.8 Performance Security	<p>For category A bidders</p> <p>The Performance Security shall be submitted for an aggregate amount equivalent to ten percent (10%) of ordered value in five (5) parts</p>	<p>For category A bidders having Local MSE certificate</p> <p>The Performance Security shall be submitted for an aggregate amount equivalent to twenty five percent (25%) of ten percent (10%) of ordered value in five (5) parts</p>	<p>Tender conditions shall prevail.</p> <p>For category B bidders the performance security shall be submitted for an aggregate amount equivalent to 10 percent of ordered value in five parts.</p>	
22	57	6.1.1 Payment	<p>1. Payment on supply of materials is 50% along with applicable tax at the time of Invoicing.</p> <p>2. Payment achievement of Commissioning of the Project is 40% along with applicable tax at the time of invoicing.</p> <p>3. On achievement of Acceptance of the Project is 10% along with applicable tax at the time of invoicing.</p> <p>4. On Successful Completion of CMC for each year (Year 1 to Year 5) is 2% per</p>	<p>As per the payment terms of tender it is 110%. Please clarify in this</p>	<p>Two percent (2%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order. (On Successful Completion of CMC for each year (Year 1 to Year 5). <b>This is the performance bank guarantee to be submitted at the end of commissioning which will be returned after specified timeline.</b> So total percentage is 100 % only.</p>	

			<p>year along with applicable tax at the time of invoicing</p> <p>By adding all the above its</p> $(50+40+10+(2 \times 5) = 110\%.$			
23	108	7.5.1.12 NET METER :	<p>NET METER</p> <p>The On-grid Solar power plant will be connected to the grid through a bi-directional net meter as per the single line diagram indicated in this document. The indicative specification of the Net-meter is as follows:</p> <p>Three Phase Meter:</p> <ul style="list-style-type: none"> <li>• Three Phase Four wire, 3x240VAC, 20-100Amps ISI marked</li> </ul> <p>Direct current operated</p> <p>bidirectional Energy Meter, DLMS CatB having calibration LED, Battery back up, AMR compliance &amp; front sealing facility to be used as a NET meter for less than 20KW</p> <p>LT consumer with</p> <p>Accuracy:</p> <p>1.0.</p> <p>Transparent Box of Engineering Plastic to house above meter with all accessories</p>	<p>This clause needs to be removed, because Net metering is not required in this case.</p>	<p>The solar power plant will be connected to grid without net metering arrangements. Necessary addendum issued.</p>	<p>This clause stands deleted</p>

24	103	7.5.1.5 Power Conditioning Unit (PCU)	<p>a) Inverter: (1.5 times the project capacity) The inverter will be highly efficient and 1.5 times the capacity of the solar project capacity. The inverter should confirm IEC 61683 /IS 61683, IS 16169/IEC 62116, IEC 60068 and should be based on MPPT design. Inverters would display its own parameters and the parameters of the battery bank connected to the inverter. Beyond the maximum load, the inverters will trip. The inverters should be designed to be completely compatible with the charge controllers and distribution panels and are of integrated design.</p>	Request you to allow us to use Single / multiple inverters in a single location and the cumulative capacity of inverter must be 1.5 times of the project capacity.	Please refer to clarification issued in serial no 16	
----	-----	---------------------------------------	---	--	--	--

25			<p>Payment Term:</p> <p>1. Fifty percent (50%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order. (On Supplying of Material)</p> <p>2. Forty percent (40%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order. (On achievement of commissioning of the project).</p> <p>3. Ten percent (10%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order. (On achievement of Acceptance of the project)</p> <p>4. Two percent (2%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order. (On Successful Completion of CMC for each year (Year 1 to Year 5))</p>	<p>Total percentage calculated as 110%. (50+40+10+10), needs to be clarify whether it is 110% or any amendment</p>	<p>Two percent (2%) of the Initial Capex along with applicable tax at the time of invoicing, as specified in the Works Order. (On Successful Completion of CMC for each year (Year 1 to Year 5)). <b>This is the performance bank guarantee to be submitted at the end of commissioning which will be returned after specified timeline.</b> So total percentage is 100 % only.</p>	
----	--	--	---	--	---	--

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
26	101	7.5.1.2 (b) Array Module mounting Structure	The Mounting structure must be Non-invasive Ballast Type and any sort of penetration of the roof to be avoided. The design details are as follows: (Roof top Not available)	Here vendor have to install Ground mounted Structure, the detail specification and drawing not mentioned in RFP.	<p>Please refer to 7.5.1.2</p> <p>i. The inclination of the module or tilt angle should be within 10-15 degrees.</p> <p>ii. The upper edge of the module must be covered with a windshield so as to avoid bulk air ingress below the module. Slight clearance must be provided on both edges (upper &amp; lower) to allow air for cooling.</p> <p>iii. An indicative drawing is shown at Appendix Form 2.</p>	
27	102	7.5.1.3 (f) AJB Clause point (f)	Array Junction Box should be IP 65(for outdoor)/ IP 54(for indoor) as per IEC 60529 and should be provided with fuses and Isolators of suitable ratings.	Grid Tie Inverters are inbuilt with AJB, so no need to install separately AJB. Vendor must provide DCDB for protection against DC side.	Tender conditions shall prevail	
28	106	7.5.1.5 (Sub clause d-iii ) AC Distribution Panel Board	All the Panels should be metal clad, totally enclosed, rigid, wall/floor mounted, air insulated, cubical type suitable for operation on three-phase / single phase, 415 or 230 volts, 50 Hz.	Request to consider either Polycarbonate (IP 65 outdoor use) and (IP 54 indoor use) or metal clad with all protection mentioned in RFP	Tender conditions shall prevail	

Sl. No.	Page no.	RFP/PPA clause no. and Description	Existing Clause	Clarification sought	Clarification issued by OREDA	Addendum
29	103	7.5.1.5 (Sub-clause a-iii) Inverter	Inverters would display its own parameters and the parameters of the battery bank connected to the inverter.	As it is an on-grid inverter there is no battery provision , so need to remove from clause	Necessary addendum issued	Inverter shall provide display of PV array DC voltage & current, Inverter Voltage & Current, Grid voltage & Current, and required parameters when a fault occurs. Remote monitoring of inverter parameters should be possible.
30	103	7.5.1.5 (Sub-clause a-iii) Inverter	There should be provision to charge the battery using Grid power as long as grid voltage is between 170V-265V, In case of Grid voltage falls below 170V up to 130V, Grid charging shall stop but load shall continue to run using Grid supply, not by Solar.	Need to remove this clause for On-grid inverter.	Necessary addendum issued	This clause stands deleted
31	24	ITB Clause 1.3.3.2 and 1.3.3.3 Bid Security, Additional performance Security	To be submitted in the form of Bank Guarantee	Allow us to submit in the form of Term Deposit Receipt pledged in favour of Chief Executive, OREDA instead of Bank Guarantee	Please refer to page no 14 point no 1.3.3.2 bid form 3. Term deposit is allowed in the tender	