

**Clarification on Pre-Bid Discussion held on 11.06.2014 at 11:00 AM at RECPDCL, Corporate Office, New Delhi**

Clarification regarding bidding for Request For Proposal For Design, Supply, Installation, Commissioning & Maintenance for 5 years of (5kWp X 16 Nos) Solar PV power plant with battery backup in 16 residential schools in 9 districts of Odisha state.

The amendments / clarifications made are as follows:

Sl. No.	Page No. in the tender	Clause No. of tender document & Description	Details of the parameter mentioned in the tender document	Remarks/ Amendments
1	7	7, Scope of Work	Scope of Work ; Design, Supply, Installation and commissioning and CMC for 5 years for 16 Nos. of 5KWp Solar Photovoltaic Rooftop standalone power plants with battery	Hybrid System is to be adopted in place of standalone system. The systems should be identical for all 16 solar PV power plant Hybrid system means: combination of single phase grid connection and single phase connection of solar PV power plant.
2	10	14(1), Payment Terms	Mobilization advance of 10% of contract value will be released after submission of interest bearing Bank guarantee of the 110% of contract value and submission of detailed approved Drawings, BOM, BOQ and Project implementation plan including timeline by the agency, which will be adjusted in the subsequent payments.	The mobilization advance shall be paid @ 10% of the award cost. Mobilization advance will be released against submission of BG issued by Nationalized Bank amounting 110% of equivalent amount of mobilization advance and submission of detailed Drawings, BOM, BOQ and Project implementation plan including timeline by the agency. The advance would be interest bearing and the interest shall be equal to SBI PLR as applicable on the day of release of advance. This advance payment shall be adjusted in 100% while releasing first instalment. <u>The BG submitted in respect of mobilization advance shall be released / returned only after the adjustment of the complete mobilization advance.</u>
3	10	14(2) Payment Terms	35% of ordered value shall be released after the supply of Major component i.e- SPV Panel, Inverter, Battery bank, Charge Controller, mountings etc. at the site for each SPV power plant mentioned in the BOM and accepted by RECPDCL.	55% of contract value shall be released after the supply of major component i.e- SPV Panel, Inverter, Battery bank, Charge Controller, Mountings etc. at the site for each SPV power plant mentioned in the BOM and verified of same by RECPDCL after adjusting the complete mobilization advance amount.
4	10	14(3) Payment terms	35% of contract value will be disbursed after completion of successful commissioning of all the SPV power plants and 3 month of successful Operation of each SPV power plant	30% of contract value shall be disbursed by MNRE to the agency as MNRE subsidy. If the MNRE subsidy is not released within 1 month from the date of submission of 3 month data of successful commissioning & Operation of each SPV power plant under the Letter of Award (LOA), in that case the payment shall be released by RECPDCL against the BG issued by nationalised bank of equal amount (30% of contract value) valid for a period of two years from the date of release of the 30% payment with the following conditions: 1. Intimation to MNRE by the agency on its own letterhead with copy to RECPDCL mentioning the fact about the release of the 30% amount which are to be disbursed as subsidy by MNRE and requesting MNRE to transfer/pay the subsidy amount to RECPDCL if admissible by MNRE. 2. Copies of all communication made between the agency and MNRE towards the release of MNRE subsidy of 30%, are submitted to RECPDCL 3. In case subsidy is not released directly to RECPDCL by MNRE and is released to the agency after making the payment by RECPDCL to the agency, the amount released by RECPDCL towards 30% of the contract amount to the agency shall be return back within seven days of receipt of the subsidy from MNRE, on receipt of the payment, the BG will be released subsequently. In case, the issue of release of subsidy remain pending

				for two years from the date of completion of 3 months of successful operation, the BG submitted against 30% release of payment shall be released and MNRE would be intimated for such action.
5	10	14(4) Payment terms	Balance 30% of contract value shall be released @ 6% per year at the end of each year for 5 years after submission of performance bank guarantee for 5 years for Comprehensive Maintenance.	Balance 15% of contract value shall be released @ 3% per year at the end of each year for 5 years after submission of Performance Bank Guarantee equivalent to 15% of the contract value and valid for 5 years for Comprehensive Maintenance.
6	12	Annexure-1, Technical Specifications of SPV Plant.	Approximate Area required for module array is given to be 36.5 SqM	The details of area available for SPV power plant in each school are being provided. The minimum area available as per survey is 72 sqmtr. It is expected to the individual bidder to visit each site before quoting their rates.
7	12	Annexure-1, Battery bank details	Minimum capacity of the battery=2428AH	Minimum capacity of the battery=1600AH
8	12	Annexure-1, Battery bank details	Battery Bank Voltage=48V	Battery Bank Voltage=96V
9	12	Annexure-1, Battery bank details	efficiency of Inverter : 97%	<u>Efficiency of Inverter : should be minimum 85%</u>
10	12	Annexure-1, Battery bank details	Charge Controller Capacity Should be 75 Amps	Charge Controller Capacity shall be as per the Ministry of New and Renewable Energy (MNRE), Govt. of India approved specifications
11	12	Annexure-1 Clause 5(i) Type, System Design / Specifications	Islander with DG and / or Grid inter phase	<u>Single phase Islander with DG and / or Grid inter phase</u>
12	13	li, Technical details of battery	Nominal Battery Capacity = 2428AH	Nominal Battery Capacity = 1600AH
13	13	li, Technical details of battery	operating : 0 to 60° C	Operating Temperature shall be 20 to 45° C
14	13	lii, Technical details of Charge controller	PWM (Pulse width modulator) type Microprocessor based controls	Solar Charge Controller should be PWM with MPPT (Maximum Power Point Tracker) Charge Controller
15	13	lii, Technical details of Charge controller	DC : 42-52V	DC from 42 to 116V
16	13	lii, Technical details of Charge controller	Charging Current Capacity : 5A-60A	Charging Current Capacity : 5A-45A
17	13	lii, Technical details of Charge controller	Efficiency more than 95%	Efficiency more than 92%
18	13	iv, Technical details of inverter	Efficiency More than 90%	<u>Efficiency should be minimum 85%</u>
19	13	iv, Technical details of inverter	Volt : 48V	Volt : 96 V

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20	13	iv, Constructive Characteristics of Solar Panel	Cables and connectors : 2 core PVC insulated cable	Cables and connectors : <u>1 core / 2 core PVC insulated cable</u>
21	General Quarry		Not mentioned in Tender document	Consortium/ JV / Partnership or any kind of association is not allowed even if with the companies empanelled with MNRE.
22	8	8.2 Eligibility:	The Bidder should have done Design, Supply Installation & Commissioning and Maintenance of captive Solar Photovoltaic Rooftop power plant with battery backup of 80 kWp cumulatively.	The Bidder should have done Design, Supply Installation & Commissioning and Maintenance of captive Solar Photovoltaic Rooftop power plant with battery backup of 40 kWp cumulatively.
23	2	general introduction		<u>At the time of execution of contract agreement the bidder has to submit a Bank Guarantee equivalent to the amount of 30% of the contract value and to be kept valid for 2 years from the date of execution of contract agreement.</u>
24	10	16	Allocation of works	No Change in clause
25	5	6 EMD	Earnest money amounting to Rs 2,50,000 /- shall be deposited in shape of Demand Draft in favour of REC Power Distribution Company Limited, payable at New Delhi or in the shape of Bank Guarantee in favour of the Chief Executive Officer, REC Power Distribution Company Limited. Tenders without deposit of E.M.D will not be accepted.	Exemption of EMD is allowed as Per existing govt. norms. The companies claiming exemption of EMD should submit valid certificate issued by NSIC for the same

Sr. No.	Name of District	Name of block	Village	Area of roof on the school (Length X Breadth)
1	Kandhamal District	Kotgarh Block	Durgapanga	(25 x 14) Sqmtr
2	Nabarangpur District	Raigarh Block	Balipata	(20 x 15) Sqmtr.
3	Nabarangpur District	Jharigaon Block	Kumbhariput	(20 x 15) Sqmtr
4	Koraput District	Narayanapatna Block	Dangasil	(22 x 17) Sqmtr.
5	Koraput District	Bandhugaon Block	Bandhugaon	(12 X 6) Sqmtr
6	Rayagada District	Kashipur Block	Kashipur	(12 X 8) Sqmtr
7	Bargarh District	Chardapali Block	Chardapali	(13 X 4) Sqmtr
8	Sundargarh District	Jampali Block	Jampali	(12 X 9) Sqmtr
9	Sundargarh District	Lahanda Block	Lahanda	(12 X 4) Sqmtr
10	Sambalpur, District	Badamundaloi Block	Badamundaloi	(10 X 6) Sqmtr
11	Sambalpur, District	Phasimal Block	Phasimal	(10 X 8) Sqmtr
12	Sambalpur, District	Sandhapathar Block	Sandhapathar	(12 X 8) Sqmtr
13	Sambalpur, District	Rabga Block	Rabga	(12 X 6) Sqmtr
14	Bolangir District	Ramachandrapur Block	Ramachandrapur	(12 X 7) Sqmtr
15	Keonjhar, District	Raisua Block	Raisua	(9 X 8) Sqmtr
16	Sambalpur, District	Tikilipada Block	Tikilipada	12 X 8 Sqmtr