

Minutes of Prebid Meeting against NIB-71 Dated 02/11/2012: 5MWp Grid Interactive Solar PV Power Project at Monarchak, Tripura.

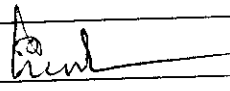
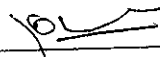
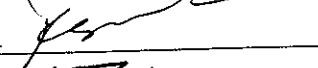
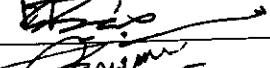

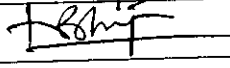
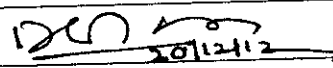
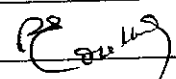

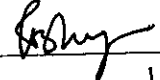
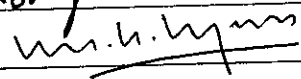
A pre bid meeting was held on 20/12/12 in NEEPCO Corporate Office Shillong with the intending bidders and the following Techno-Commercial aspects are discussed and resolved as below.

Sl.No	Clause No. Bidders queries	Neepco's Clarification
1	Annual Energy 8.322MU per annual	Minimum guaranteed Generation is 8.322 MU .However no advantage will be given beyond 8.322 MU. Minimum installed capacity shall be 5MWp.
2	Inverters	Rated Inverter Capacity shall be maximum 630 KW.
3	Transformer	Quantity of Transformers shall be minimum 4 Nos, 3-winding, 1500 KVA, */33 KV 50Hz.(* Inverter Voltage).
4	33 KV switchyard	33 KV outdoor switchyard shall be converted to 33KV Indoor switchgear with two nos outgoing 33 KV feeders, incomer feeders from 1500KVA, */33 KV 50 HZ (*Inverter Voltage) transformer, one feeder or auxiliary station transformer and one spare feeder with all necessary control protection & metering as specified in the tender specification for transformers and the outgoing feeders.
5	Auxiliaries supply	In the 33 KV switchgear, one feeder will be dedicated for auxiliary power with a transformer capacity of 250 KVA, 33KV/433V. For Aux. Power distribution, one main LTAC panel with required sub ACDB inclusive of all required cables & accessories shall be part of the scope. One feeder shall be kept for interfacing 415 V from the existing power plant.
6	Variation of voltage in inverter	Grid voltage tolerance of Inverters shall be +/- 15 %
7	Boundary around the arrays.	The fencing works shall be around electrical transformers & switchyard of 2.5 meter high (minimum 8 guage). Angle size for fencing post shall be of minimum ISA 70 x 70 x 6.
8	Whether lattice or tubular poles	Tubular poles shall be used for 1 KM (approx) long 33 KV line. Specification of the tubular pole shall be submitted.
9	Degree of protection of PCU	Degree of protection of PCU shall be IP20
10	Geotechnical investigation	Scope of geotechnical investigations lies with the bidder. However for guideline purpose, geo tech report no. AN/185/C/2001yRRL Jorhat shall be forwarded for reference
11	Solar PV Module	Minimum power rating of the SPV module shall be 240 Wp.
12	11 KV Indoor Switch gear	11 KV indoor switchgear is not required as our output voltage of the inverter will be directly stepped up to 33 KV level by using 3 winding transformer.
13	Control Room	Pre- fabricated / pre-engineered building is acceptable.
14	Single line drawing	Revised SLD drawings will be submitted.
15	Auto CAD drawing	Auto CAD drawing of the layout will be furnished.

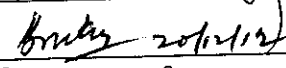
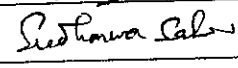
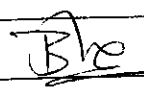
COMMERCIAL		
1	Land availability of 30 acres	<p>Minimum of 25 acres land will be made available. Any increased from 25 acres, a loading will be done. However land limitation will be 27 Acres, beyond that offers will not be considered.</p> <p>Any additional land beyond 25 acres, loading will be done as follows:</p> <p>a) Loading for extra beyond 25 Acres=40 Lakhs/Acres. b) Negative loading for less than 25 Acres=Rs 25 lakhs/ Acres c) If at execution stage, land usage is more than declared, then penalty @ Rs 80 Lakhs/ Acres. d) The bidder will ensure proper spacing of equipments as per technical requirement and decision of NEEPCO in this regard shall be final and binding on the contractor.</p>
2	With draw Loading during evaluation as it will lead to adventurous offers and fixed the bench mark for total energy of 8.322mu	Annual energy of 8.322MU will be considered as base. No loading will be considered during evaluation for energy guaranteed more than 8.322MU. However, any additional land required from the agreed 25 acres will be loaded as noted at SI No.1 above.
3	Auxiliaries consumption	Not included in the annual energy of 8.322mu. However aux consumption shall be restricted to 1%
4	Commissioning schedule	Against a completion schedule of 12 (Twelve) months from LOI, Contractor shall make best efforts to commission the plant within 9(Nine) months from date of issue of LOI.
5	MNRE exemptions	Required documentation will be provided by NEEPCO.
6	Request Time extension for submission of bids by 10 days	NEEPCO agreed for extension of last date of receipt of Bids and date of opening of techno-commercial Bids up to 11/01/2013.
7	Clause 1.5 of vol 1, ITB Construction power	As per clause 1.5, vol-I, ITB, Sec-II, Construction power will be provided free of cost at 415 V at 01 (one) convenient point mutually decided.
8	Clause 34.0, Vol-I, Penalty Clause	The penalty shall be levied one time at the rate of Rs 215.8 per KWh for shortfall from the Base Annual Generation (8.322 MU).

**LIST OF PARTICIPANTS PRESENT IN THE MEETING HELD ON 20.12.2012 AT THE CONFERENCE ROOM -1,
NEEPCO, SHILLONG, PERTAINING TO PRE-BID CONFERENCE ON SOLAR POWER PROJECT IN TGBP,
TRIPURA**

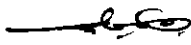
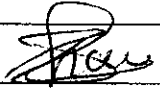
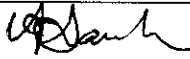

NEEPCO

Sl. No.	Name of participants	Signature
1	N. Chetani ED (C&P)	
2	P. S. Dub GM (C&P)	
3	R. C. Sarmah GM (C&P)	
4	S. R. Biswas GM/HO TGBP	
5	B. Goswami DGM (D&E)	
6	N. Bhargava DGM (E)	
7	S	
8	D. C. DAS Sr. M (E/M), TGBP	 20/12/12
9	M. A. Halim Sr. M (E)	
10	A. K. DAS Sr. M (E)	
11	Ripunjay Bhatia Sr. M (E)	
12	K. K. Khongwar Sr. M (E)	
13		
14		
15		
16		

BIDDERS

Sl. No.	Name of participants	Signature
1	MUKUT CHOUHURY	TOT Infrastructure & Energy Services Ltd
2	BIRKH SINGH / Chan Solar P. Ltd	 20/12/12
3	S. K. Saha / Chan Solar	
1	Praveen Kumar Jha (Vikram Solar)	
2		
3		

BIDDERS

Sl. No.	Name of participants	Signature
1	N. Das, Shyam Power (I) Ltd	
2		
3		
1	Biswasit Mosi (EverSun).	
2		
3		
1	CHINTHOT SHARMA TATA POWER SOLAR	
2		
3		
1	Abhishek Sarmah - Moser Baer Solar Ltd.	
2		
3		
1	B. DAS } BHEL	B. DAS
2	A. Roy }	
3		
1	Rahul Roy Chowdhury (WAPAREE)	
2		
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