Clarification to NIB No.161 dtd:17/09/15			**Annexure-I**
S.No	**Tender Requirements**	**Prospective bidders query**	**NEEPCO Clarification**
1	PV module : 2.0MWp(Minimum)	To achieve the required generation of 3.3288 MU we may add more capacity but minimum installation should not be less than 2MWp . We can increase the modules for reaching this nos, but again it won't assures the required generation figures as it is very difficult to access the partial cloudy condition in the NE area. Hence my suggestion is to have the PR guarantee which is based on the radiation.	Bid stipulation prevail.
2	Inverter : 500kW(minimum) - 4 nos	3 Nos 750 kW inverters may be used. In that case it won't be 2 MW plant but it will be 2.25 MW plant instead of 2 MW. They should revise the tender accordingly.	Bid stipulation prevail. Bidder may consider 3X750KW Inverters.
3	Transformer - 1.25MVA - 2nos	Regarding use of Transformer - 2.0MVA - 1nos Normal practice is to have the capacity of transformer equal to the capacity of inverter in order to avoid the excessive No load losses.	2X 1MVA transformers may be used instead of 2x1.25MVA transformer.
4	Auxiliary Transformer - 300kVA - 1 no	Regarding the capacity of Auxiliary Transformer. This will only increase the auxiliary losses. It should decided be based on the auxiliary power requirement of the plant instead of mentioning the capacity in the tender.	2x 25KVA outdoor pole mounted auxiliary transformer shall be used in place of one number of 300KVA auxiliary transformer
5	HT Breaker at SPV plant end for Txn line - 2 nos for Transformer - 2 Nos	Regarding Nos of Breakers. This will increase the price as they have the concern on the price as they are comparing it with the MNRE guidelines.	3(three) HT breakers. 1(one) for outgoing line and 2(two) for transformers, considering only 1(one) outgoing line.
6	Civil Room: RCC civil Room for 4 no of inverters	RCC is very costly affaire in NE hence cost effective solution is to have the prefabricated roof. If there is no cost constraint then RCC is ok.	Inverter room shall be prefab type for smaller site. And the control room cum invertor room cum SCADA room shall be of RCC type.

7	SCADA with 100% redundancy.	Standard industrial practice is to keep 10% redundancy.	Bid stipulation prevail
8	CCTV in the plant	This is the cost related parameter .NEEPCO to load this price in the estimated cost if at all they want this.	NEEPCO requires CCTV camera at vital location for security of the plant. To be decided during detail engineering.
9	5 year O&M cost with spares	Standard industrial practice as EPC contract and the O&M contract is always separate. Otherwise the EPC price will shoot up. They have to load this as well in the estimated cost	Bid stipulation prevail. As per bid condition, there will be separate contract for supply & services.
10	ROW (Right of Way)	ROW issues also included in the scope which have an impact on the costing This will only increase the EPC cost as the EPC will always consider safe margin while calculating the cost for the ROW which will have the impact on the overall project cost.	ROW shall be arranged by NEEPCO
11	Roads of 5 Mtr width with black top	Roads with 3 mtr width and .500mtr shoulder with WBM We have suggested as per the standard induatrial practice for the solar plants. Neepco to load this cost in the estimated cost.	Roads with 3 mtr width and 0.5mtr shoulder with WBM is accepted
12	BG of 10% for 25 years on Modules	Not standard industries practice. BG for 1 year is std.	Bid condition prevail
13	Generation Gaurantee of 3.3288 MU / annum	Our suggestion is on PR Guarantee rather than units. Shortfall can be accommodated with the local tariff for the units shortfall. Short fall in the generation due to lower PR than the guaranteed PR can be calculated as per the standard PR formula. In case if the same is revised to PR guarantee how would be the short fall calculated and penalty will be applicable.	Bid stipulation prevail.

14	Site Visit	It is always better to have the detailed site visit to understand the local condition and the construction cost in the area along with the labour rates prevailing in the region to access the actual cost before bidding.	Bidder to confirm site visit as per bid stipulation.
15	Penalty of Rs. 251/unit on shortfall generation	The Penalty figure is way too high! . Will NEEPCO pay same if we achieve more ?Penalty should be as per the Tariff prevalent there	Penalty shall be of Rs.162/unit on shortfall generation.
16	Generation Guarantee of 3.3288 MU / annum	Short fall in the generation due to lower PR than the guaranteed PR can be calculated as per the standard PR formula.	Ref clarification under sl.no.13 above.