


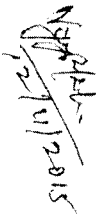
CLARIFICATION (ANNEXURE-I) TO PROSPECTIVE
BIDDER'S PRE BID QUERY AGAINST NIB NO 161 dtd.

17/09/2015

(EPC FOR SETTING UP OF 2 MW SOLAR PV POWER
PLANT AT LANKA)

AweXWL - I

Sl. No.	D&E observation
<p>1 Bidders query</p> <p>The guaranteed energy generation 3.3288 MU/annum with 2MWP solar installation is not possible since your data interpreting GHI at 4.33KWh/Mtr sq average/Annum Page 18 of 27 (North Eastern Electric Power Corporation Ltd. (General Technical Specification) 2 MWP Solar power Plant, Lanka Volume 2, Part-I.</p>	<p>D&E observation</p> <p>Bid stipulation prevail. bidder to install minimum 2MWP solar plant.</p>
<p>2 The maximum possible idle generation with the above 4.33KWh is max 3160900KWh/Annum, this is also almost matching with our PVSYS1 software with poly crystalline 310Wp module for 2MWP capacity (attached the report), 25 deg module angle with 7.3 mtr pitch.</p>	<p>Bid stipulation prevail.</p>
<p>3 Pl note that all the above values are 20 or 30 years average and also in general whatever the best equipment we use in this system for generation, the maximum possible CUF at this location is only 15 or 16% maximum (2628000 KWH/Year/2MW). Need your opinion in reviewing the same.</p>	<p>Bid stipulation prevail.</p>
<p>4 Regarding the power transformer specified in the tender document - North Eastern Electric Power Corporation Ltd. Particular Technical specification Electrical 2MWP Solar power Plant Power Transformers Volume 2, Part II Section III, would like to point out to use of 1MW 270V/33KV X 2 nos "ONAN amorphous core transformer" over 1MW 270V/33KV X 2 nos "ONAN iron core transformer" because of very low no load losses and comparatively lower load losses with complies with IEC 60076, the same for auxiliary also.</p>	<p>Accepted.</p>
<p>5 Technically as per the area available in the given tender, site - 1 as 7.25 acre will make 1.9 to 2 MW and site - 2 of 3.23 acre maximum 0.75MW. this equation is important to maintain a decent CUF considering point 3 above.</p>	<p>Bidder to utilize site-2(smaller plot) to the full extent while installing the solar plant.</p>
<p>6 Regarding the 8.1.33KVpower evacuation sld Model ,pl find attached a SLD as per the site feasibility and maintenance and ease of equipment available in the market, as per this SLD there is only 2 HT breakers needed at each site, three core transformer replaced with 2 core with a LT breaker panel and each site will have a 25KVA 33KV/415V transformer instead of single 63KVA at one site.</p>	<p>NEEPCO confirms 2 HT breakers, one at each site, three core transformer replaced with 2 core with a LT breaker panel and each site will have a 25KVA 33KV/415V transformer instead of single 63KVA at one site.</p>
<p>7 If we plan the whole system neatly by maintaining a limited green area and limited approach roads a complete 2MW is possible in site 1 of 7.25 acre itself.</p>	<p>Bidder to utilize both the plot. Bidder to utilize site-2(smaller plot) to the full extent while installing the solar plant.</p>

 12/11/2015
 12/11/2015