

Clarifications in response to Pre Bid Queries for 975 MW Selection of Agency for Preparing Detailed Project Report (DPR) for 975 MW (850 MW for Fixed Installation and 125 MW for Floating Installation) Solar Power Plant at Various Power Plant Sites of Rajasthan Raja Vidyut Utpadan Nigam Limited (RRVUNL).

S. N.	Clause No.	Clause Reference of Bidding Document	Bidders queries	RRVUNL Response
1.	Clause 2. SCOPE OF WORK (v)	Preparation of preliminary plant layout, heat and mass balance diagrams, electrical one-line diagram.	Our understanding is that heat mass balance diagrams is not applicable for solar plants. However, mass balance diagram will be prepared for firefighting and module cleaning systems.	Solar Heat balance diagram may be required. Mass balance diagram will be required for firefighting and module cleaning systems.
2.	Clause 2. SCOPE OF WORK (ix)	Topographic Mapping and Geophysical Analysis	TCE will appoint third party agency for the survey; the outcomes of the survey results would be used for high level analysis.	The available topographic Mapping and Geophysical Analysis data are available with plant authorities and may be obtained during the site visit by the consultant, However, suitability of such provided data shall be further assessed by the Consultant.
3.	Clause 2. SCOPE OF WORK (ii, iii) Clause No.4 Preparation of DPR	Power Evacuation System Study the suitability of the site identified by RRVUNL for the installation of the proposed Solar power plant based on the following considerations: (Clause No. 2 (ii)) a) Availability of adequate space for locating the Solar power plant. b) Accessibility to site c) Availability of water d) Environmental aspects e) Convenience of power evacuation (iii) Brief description of major plant features including facilities for interconnection with the existing state grid and salient technical parameters of the following equipment and systems: -(Clause No. 2 (iii))	For the projects in Rajasthan which will be within the plant boundary of RRVUNL, whether it is required to survey separate power evacuation route to nearest substation or it can be merged with the existing switchyard. Please confirm	No need of the separate Power evacuation system and the output of the Solar can be merged with the existing switchyard. However, the viability for merging should be checked during the plant site visit of the consultant.

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		a) Main power generating equipment and auxiliaries. b) Control and instrumentation system c) Power evacuation system Power Evacuation System (Clause No. 4) ➤ Shortest possible path for erection of transmission line from solar plant to Substation. ➤ Detailed technical specifications & costing of supply & erection of transmission line from the solar plant to substation		
4.	Clause 2. SCOPE OF WORK (ii, iii) Clause No.4 Preparation of DPR	Power Evacuation System Study the suitability of the site identified by RRVUNL for the installation of the proposed Solar power plant based on the following considerations: (Clause No. 2 (ii)) a) Availability of adequate space for locating the Solar power plant. b) Accessibility to site c) Availability of water d) Environmental aspects e) Convenience of power evacuation (iii) Brief description of major plant features including facilities for interconnection with the existing state grid and salient technical parameters of the following equipment and systems: -(Clause No. 2 (iii)) a) Main power generating equipment and auxiliaries. b) Control and instrumentation system c) Power evacuation system Power Evacuation System (Clause No. 4) ➤ Shortest possible path for erection of transmission line from solar plant to	Please let us know whether these solar PV plants will be separate entity or part of existing thermal power plant	The solar PV plants will be part of existing thermal power plant.

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		Substation. ➤ Detailed technical specifications & costing of supply & erection of transmission line from the solar plant to substation		
5.	Clause 4. Preparation of DPR	Overview of Proposed PV project <i>Detailed technical specifications & costing of supply & erection of transmission line from solar plant to substation.</i>	Broad level information would be covered in the DPRs	Consultant shall be responsible to complete entire scope of work as per Bid Document including Clarifications and Amendments if any.
6.	Clause 4. Preparation of DPR	Ambient Air Quality Monitoring Report at Rajasthan Solar Park	We presume air quality measurement is required to be conducted at each of the power plant sites and findings to be reported in the DPR.	The air quality measurement is being carried out at thermal power plants for Pollution control board requirement. The same data may be used for preparation of DPR.
7.	Clause 7. Other Specific Conditions, Point 7.5	The Bidder must be equipped with latest means of communication and IT Savvy. They should be aware of latest means and ways by which site survey, collection and analysis of Solar radiation data & other related activities are to be carried out. No equipment/software for rendering the consultancy services shall be provided by RECTPCL. The Bidder should have various civil/mechanical/electronic/Photovoltaic testing & measuring equipments	For solar radiation data TCE will use Meteoronorm data (which is industry accepted), along with other data available in public domain (like NREL, NASA, IMD) and available with TCE. No photovoltaic testing and measurement is envisaged.	May be agreed with the proposal for using the solar radiation data available in public domain. Consultant shall follow best industry practice.
8.	Clause 4. Preparation of DPR	Analysis of Permits & Clearances	The Solar PV projects doesn't require Environmental Clearance (EC) under EIA Notification 2016. Therefore, EC and permits from statutory authorities such as MoEF-CC/ State Environmental Authorities are not required.	Consultant is required to find out the list of permits & clearances required for setting up of the solar power plant.

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			Please clarify, which permits and clearances are referred here?	
9.	Clause 6. Eligibility Criteria	6.1 The Bidder must have experience in handling similar assignments as main contractor during last four financial years in India should be either of the following: One (1) Similar Assignment of minimum value of Rs.40,00,000/- OR Two (2) Similar Assignments each of minimum value of Rs.25,00,000/-	Please let us know the indicated value is towards consultancy charges or total project cost?	Bidders are requested to refer Amendment-1 in this regards.
10.	Clause 22: Terms of Payment	The Contract Price shall be paid in the manner specified below: To be paid after completion of Scope of work and submission of draft DPR: 40% of Contract Value. To be paid after submission of final DPR incorporating comments of RECTPCL/RRVUNL: 40% of Contract Value. To be paid after acceptance of final report by RECTPCL/RRVUNL. 20% of Contract Value	Considering that a team will have to travel to all the sites listed in the tender document, we request REC to consider an advance payment award of contract. We propose the below payment terms: a) 20% of lumpsum compensation shall be paid as advance on award of contract. b) 40% of lumpsum compensation shall be paid after submission of draft DPR. c) 30% of lumpsum compensation shall be paid after submission of final DPR. d) 10% of lumpsum compensation shall be paid after final acceptance of the DPR.	Provisions of Bidding Document Shall prevail.
11.	General		We request REC to extend the bid submission date by one week i.e. 22-10-2018.	Considering the importance of project and stringent timelines, the Bid Due date shall not be extended, however RECTPCL reserves right to do so at any time.

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12.	Clause 10.2 : Basis of Offer	The price should be quoted on a lump sum basis inclusive of all taxes and duties etc. other than GST for Services as may be applicable for complete scope of works as indicated in Annexure-13 GST shall be payable at actuals at time of payment to the consultant by RECTPCL on submission of documentary evidence.	Any variation in the GST or any fresh taxes and duties as levied in future by Government of India during the tenure of this assignment would be to the account of the Client. Please confirm.	Bidders are requested to refer Amendment-I in this regard.
13.	Clause 2.0 (5), Annexure -1: Bid proposal	We also confirm that the Quoted Price shall also be valid for preparation of DPR of Similar Project anywhere in India within a period of One year.	The quote for any additional DPRs to be prepared shall be indicated based on the specific requirements for that project (example: project capacity, location, project type, etc.) and may not be the same as this current assignment. This can be mutually discussed at the suitable time and can be firmed up.	Provisions of Bidding Document Shall prevail.
14.	Clause No. 6.1	The Bidder must have experience in handling similar assignments as main contractor during last four financial years in India should be either of the Following: One (1) Similar Assignment of minimum value of Rs.40, 00,000/- OR Two (2) Similar Assignments each of Minimum value of Rs.25, 00,000	The Bidder must have experience in handling similar assignments as main contractor during last Ten financial years in India should be either of the following: One (1) Similar Assignment of minimum value of Rs.40, 00,000/-. OR Two (2) Similar Assignments each of minimum value of Rs.25, 00,000/- to Three or more assignments with cumulatively value of Rs.50, 00,000/-	Bidders are requested to refer Amendment-I in this regard.
15.		Note: - Similar Assignment for this consultancy work means preparation of Detailed Project Report for Ground mounted and Floating Solar Panels.	Note: - Similar Assignment for this consultancy work means preparation of Detailed Project Report or related consultancy	Bidders are requested to refer Amendment-I in this regard.

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			works in for Ground mounted and / or Floating Solar Panels.	
16.		General	We may be allowed to form a JV or Consortium with a technology partner meeting the eligibility criteria.	JV is not permitted in this Tender. Provisions of Bidding Document shall prevail.
17.	6.1	The Bidder must have experience in handling similar assignments as main contractor during last four financial years in India should be either of the following: One (1) Similar Assignment of minimum value of Rs.40,00,000/- . OR Two (2) Similar Assignments each of minimum value of Rs.25,00,000/-	Request to kindly modify the requirement as follows. <u>Option 1</u> : One (1) similar assignment of minimum value of Rs. 10,00,000/- OR Two (2) similar assignments each of minimum value of Rs. 8,00,000/- <u>Option 2</u> : Minimum capacity for one (1) similar assignment should be 100 MW OR Two (2) similar assignments each of minimum capacity 50 MW	Bidders are requested to refer Amendment-I in this regard.
18.	Note in 6.1	Similar Assignment for this consultancy work means preparation of Detailed Project Report for Ground mounted and Floating Solar Panels.	Request to kindly modify this clause as : Similar Assignment for this consultancy work means preparation of Detailed Project Report for Ground mounted AND / OR Floating Solar Panels.	Bidders are requested to refer Amendment-I in this regard.
19.		General	Whether we can submit the ongoing projects to fulfill the eligibility criteria and in that case the completion certificate and	Only Completed projects shall be considered for assessing Qualification of the Bidder.

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			other related documents to be submitted once the project is completed. Kindly confirm.	
20.	Section-1, cause 2 (ii) e, pg. 4/68	Convenience of power evacuation	Kindly share the list of nearest substations or the evacuation points for all the proposed 11 sites.	The details of nearest substations may be obtained during the site visit by the consultant from each plant.
21.	Section-1, cause 2 (ii) e, pg. 4/68	Convenience of power evacuation	Which agencies are to be contacted for evacuation	For finding the viability of the power evacuation system, consultant may discussed with the In-charge Electrical of each power plant.
22.	Section-1, cause 2 (iv) e, pg. 4/68	Environmental Aspects: The report will cover data to be included in the standard format given by central pollution control authorities.	Kindly share the format by CPCA.	The bidders are requested to assess the requirement by themselves.
23.	Clause 4.Preparation of DPR	Topographic Mapping and Geophysical Analysis <ul style="list-style-type: none"> ✓ Standard Penetration Test ✓ Laboratory Testing ✓ Local Geologic Settings ✓ Groundwater ✓ Geologic Hazards ➤ Landslides ➤ Flooding and Erosion ➤ Subsidence ➤ Poor Soil Conditions ➤ Primary Ground Rupture ➤ Strong Ground Motion ➤ Liquefaction ✓ Foundations ✓ Earthwork ✓ Soil resistivity analysis 	As all the locations are in Rajasthan given in Table -1 (at Sl No.3 List of sites) are the locations where power generating stations are already in place and therefore all the stations have already been completed, which can be provided by the concerned corporation to the successful consulting agency.	The available topographic Mapping and Geophysical Analysis data are available with plant authorities and may be obtained during the site visit by the consultant.

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24.	Clause 4.Preparation of DPR	<p>Environmental analysis</p> <ul style="list-style-type: none"> ✓ Environment Clearance ✓ Flora and Fauna ✓ Environment Management Plan (EMP) ➤ Environmental impact assessment & survey. • Social Environmental analysis <ul style="list-style-type: none"> ✓ Affected people ✓ Tribal lands ✓ Encroachment ✓ Compensations for livelihood affected people. ➤ Assess the likely impacts of the sub-project, in terms of land acquisition/ transfer (loss of lands, houses, livelihood, etc.), and resultant involuntary resettlement extent and undertake the census of potential project affected people; ➤ Identify likely loss of community assets including the religious structures and common property resources (e.g. forest, grazing land, drinking water source, etc.) within project site; the impacts of their loss on the local population, and prepare mitigation plans. ➤ Social impact assessment ➤ Ecology or biodiversity ➤ Physical or cultural heritage (if any) ➤ Flooding and seismic risk ➤ Hazardous and domestic waste management, etc. ➤ Review of the land take/lease process to assess any legacy or current/existing issues (like informal settlers, livelihood dependence, other usage etc.) on the allotted land. It will also look at current and 	<p>For Solar PV Projects tender, no environmental clearance is required and therefore there is no Environmental Management Plan as well as Environmental Impact Assessment.</p> <p>Similarly, there is no necessity of Social Environmental Analysis.</p> <p>However, same is required we will be able to do it at an extra cost.</p>	<p>Consultant has to carry out the required environmental analysis.</p>

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		<p>proposed development activities within the project's area of influence, including those not directly connected to the project.</p> <p>➤ The Urban Zoning information (agricultural, industrial, urban) with any urban restrictions that may be known.</p>		
25.	Clause No. 6 Eligibility Criteria-Note	Similar Assignment for this consultancy work means preparation of Detailed Project Report for Ground mounted and Floating Solar Panels.	<p>In our opinion all these are not required. In this respect we wish to submit that there are limited floating type solar projects commissioned till date and in most of the cases it has been done either in-house or by EPC for demonstration purposes. We, therefore request you to amend this clause as follows:-</p> <p><i>“Similar Assignment for this consultancy work means project management consultancy services for Ground mounted and/or Floating Solar Panels.”</i></p>	Bidders are requested to refer Amendment-I in this regard.

Note – Consultant may be read as Successful Bidder.