

Clarifications to Queries

Innovation in Solar Power and Hybrid Technologies (P160379)

Special General Procurement Notice for 160 MW Solar-Wind Hybrid Power Plant in State of Andhra Pradesh

Sl. No.	Queries	Category	Clarifications
1	Latitude and longitude details of the site should be made available to the prospective bidders.	Technical	The project is proposed at Ramagiri and Muthavakuntla villages, the coordinates of site locations are 14°20'42.42"N, 77°30'9.88"E and 14°22'21.41"N, 77°31'2.39"E
2	Since the time is less , we are pursuing a partner / collaborator for taking up the installation of solar / wind project. Till now no consortium is finalized for our company. In line of the above , we will apply as a Battery supplying and engineering organization on standalone basis and going further will decide upon the Solar and Wind company with which we will collaborate for this project. Please allow us to participate in this invitation as a battery supplier	Contract	Since it is the participation for the EOI only, so you can participate for the said EOI.Regarding Consortium partner,same shall be discussed in the meeting.
3	kindly share the site information. So that we can make our proposal more accurate. We would like to do site survey, so kindly share the contact detail. As starting point, as discussed we will consider 40MW wind, 120MW solar and 40MWhr storage. In addition, we will evaluate more option and best solution suitable to site	Technical	Kindly refer Sr No 1 for the query asked
4	We are interested in participating in the tender Innovation Solar Power and Hybrid Technologies Project. Are you able to indicate when the tender documents will be available on your web page	Contract	Tender details and timelines will be published at later stage. Please be updated from the SECI website at www.seci.co.in
5	Request SECI to provide minimum 3 weeks time to evaluate the proposal in totality and preparation of Eol, starting from the date of reply of Queries asked by interested parties	Technical	The timelines for the EOI will prevail. As of now there is no extension in the given timelines.
6	Please provide the tentative Project Timeline for the project.	Technical	Tender details and timelines will be published at later stage. Please be updated from the SECI website at www.seci.co.in
7	Technical Pre-Qualification Requirement: Request SECI to elaborate "Relevant Experience" which is required to participate and perform a contract of similar nature. Also requested SECI to include industrial project experience, both as Developer as well as EPC contractor. And eligibility shall be in terms with the project value only, similar to that of NTPC Ltd.	Contract	This is the publication of Expression of Interest (Eol) for inviting the prospective interest of all the bidders for the said Project. Complete tender details, Technical specifications, Technical QR & eligibility criteria will be deliberated in detail in the tender document which will be available in due course of time. Please be updated from the SECI website at www.seci.co.in . This is a EPC bid, the tender along with technical specification will be published after EOI meeting.
8	Request SECI to provide range of Functional Guarantees to be met for the project. Also requested to please spell out Liquidated Damages, if those functional guarantees are not met.	Technical	
9	Request SECI to disclose expected PPA price range SECI has in-principally agreed upon with the potential off-takers so that project viability can also be assessed even at the time of submission and later on finalization of scheme and individual capacity of Solar PV, Wind and battery solution among each other in the Hybrid system.	Technical	
10	Land specific: Quantum of land to be provided to the bidders for development of the project	Technical	Kindly refer Sr No 1 for the query. Land quantum will be shared during tendering stage.Sufficient land shall be provided.
11	Land specific: Preliminary Land contour profile and Topographical Survey Report to be provided to the bidders. This will also form an integral input for optimal sizing of Wind and Solar mix.	Technical	This is the publication of Expression of Interest (Eol) for inviting the prospective interest of all the bidders for the said Project. Complete tender details, Technical specifications, Technical QR & eligibility criteria will be deliberated in detail in the tender document which will be available in due course of time. Please be updated from the SECI website at www.seci.co.in .
12	Land specific: Preliminary Soil Investigation and Geo-technical Report to be provided to the bidders	Technical	
13	Land specific: Proposed Layout and Plot boundaries to be provided to the bidders	Technical	Kindly refer Sr No 1 for the query. Land layout will be shared during tendering stage
14	Project Location: Exact locations of project boundary in UTM - to finalise the micro sitting and size of wind project	Technical	Kindly refer Sr No 1 for the query. Land layout will be shared during tendering stage
15	Wind Data: Please provide Wind data to arrive CUF Note:- As per the mesoscale maps, Ramagiri village is showing high potential. Wind Speed ranges between 6.8 m/s to 7.2 m/s. NIWE mast at different locations in ramagiri shows 5.88 m/s, 5.62 m/s and 5.42 m/s at 20m height	Technical	
16	Technical specific: Wind / solar resource assessment report undertaken in past years for the proposed region, if any.	Technical	
17	Technical specific: Power Evacuation and Evacuation substation detail including Voltage level, proposed transmission line distance.	Technical	
18	Technical specific: Metering Specifications and Arrangement	Technical	
19	Technical specific: Expected CUF Requirement from the bidder	Technical	
20	The resource assessment data (Solar and Wind) of the proposed project site at Ramagiri district of Andhra Pradesh is required for evaluating the optimal mix of Solar and wind in the proposed site and corresponding size of ESS. Solar yield and its likely distribution over the year can be worked out from latitude of the site, however, it is essential to have Wind Resource data for this particular site for optimally estimating the Wind energy yield and working out the optimal mix.	Technical	
21	Technical specific: Minimum proposed capacity of bidding block	Technical	

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22	Technical specific: Standard drawings for Civil Works including Fence, Road, Foundations for switchyard etc. to be provided to the bidders	Technical	This is the publication of Expression of Interest (EoI) for inviting the prospective interest of all the bidders for the said Project. Complete tender details, Technical specifications, Technical QR & eligibility criteria will be deliberated in detail in the tender document which will be available in due course of time. Please be updated from the SECI website at www.seci.co.in.
23	Technical specific: Material specifications for MMS, wind turbine, piling, etc. to be provided to the bidders	Technical	
24	Technical specific: Proposed building type (PEB or RCC) for Main Control Rooms, details of other infrastructural facilities to be provided to the bidders	Technical	
25	Technical specific: Energy Storage requirement and utility of stored energy along with differential tariff for wind, solar and battery storage.	Technical	
26	Technical specific: Requirement of minimum storage Capacities as percentage of total wind and solar capacities	Technical	
27	Technical specific: Sizing criteria for wind, solar and storage solutions	Technical	
28	Technical specific: Suggested to allow Project Companies to decide on any latest turbine and solar technologies available in the market.	Technical	
29	<p>Energy Storage: Following minimum data is required for sizing of optimal sizing of BESS for the said applications of generation smoothing and peak shifting –</p> <ol style="list-style-type: none"> 1) Annual generation data of Solar (per min. at least) 2) Annual generation data of wind (per min. at least) 3) Ramp rate value required at grid connection point 4) Total reactive power compensation required at grid connection point 5) Load curves of past one year at the interconnecting grid substation <p>Energy storage systems being very expensive, this requires optimal sizing under most stringent operational parameters. Any ESS sizing based on general assumptions may lead to non-viability of the project.</p>	Technical	
30	Requesting for Extension of Submission of Proposal	Technical	The timelines for the EOI will prevail. As of now there is no extension in the given timelines.
31	Detail of Project Site Layout (Preferred in Auto Cad).	Technical	Kindly refer Sr No 1 for the query. Auto CAD drawing will be provided during tendering stage.
32	Historical wind data details of the project site along with the mast specification	Technical	This is the publication of Expression of Interest (EoI) for inviting the prospective interest of all the bidders for the said Project. Complete tender details, wind data, Technical specifications, Technical QR & eligibility criteria will be deliberated in detail in the tender document which will be available in due course of time. Please be updated from the SECI website at www.seci.co.in.
33	As SECI proposed to have 160 MW capacity for this project. Is there any % allocation fixed for the Wind and Solar capacity separately? What should be minimum size of Battery storage (in MW) is required to be installed?	Technical	
34	Detail of proposed sub-station (Capacity of Sub-station, Voltage level, No of feeders, Distance from Sub-station etc.)	Technical	
35	Has a portion of land been allocated for the project? If so, what is the approximate size in m2 or km2 area?	Technical	Approximately 1000 Acres has been demarcated for the said Project which can be considered tentatively for assessing your workings.
36	If the answer to the above question is No, do we as a consortium also need to procure land for the project?	Technical	Bidders are not required to procure the land for the said project
37	What is the capacity of the MV transmission line in kV for the evacuation of the power from the hybrid plant?	Technical	This is the publication of Expression of Interest (EoI) for inviting the prospective interest of all the bidders for the said Project. Complete tender details, Technical specifications, Technical QR & eligibility criteria will be deliberated in detail in the tender document which will be available in due course of time. Please be updated from the SECI website at www.seci.co.in.
38	How reliable is the grid? Can we obtain some data regarding the frequency and duration of grid failures in the region during the past year?	Technical	
39	As the ESS for the hybrid power plant will have a power rating with energy storage capacity, usually in MW / MWh, should the 160 MW in total include only the power rating of the ESS in MW or only the MWh energy capacity?	Technical	Ess capacity is not included in 160MW.Ess requirements will be specified in the tender document. Bidder may provide the suggestions if any.