

(राष्ट्रीय पशु जैव प्रोद्योगिकी संस्थान)

National Institute of Animal Biotechnology

Corrigendum -- Clarification/Change on queries

Please refer NIAB Tender Details as follows.

Tender ID : 2022_DBTEC_702860_1

Tender Reference Number : NIAB/SP/2022-23/04

Tender Title : SURVEY, DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING AND

COMMISSIONING OF 900KW_p SOLAR POWER PLANT WITH GRID CONNECTION UNDER NET

METERING POLICY, IN NIAB HYDERABAD

The following changes may please be noted before submission of bids with respect to the tender details mentioned above.

Please note below mentioned changes/clarifications as per **Annexure -1** and bid must be submitted accordingly.

Manager (S&P)
NIAB-Hyderabad
Date:- 18/08/2022

SURVEY, DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 900KWp SOLAR POWER PLANT WITH GRID CONNECTION UNDER NET METERING POLICY, IN NIAB		
S No	Queries from Bidder	Proposed Reply from NIAB
1	If Bidder has to pay the EMD what will be EMD value as it is not mentioned in the Tender	As per the Govt orders there is NO EMD
2	If EMD has to paid can bidder submit EMD in form of BG(Bank Guarantee)	As per the Govt orders there is NO EMD
3	Net Meter To be considered Individual or All installed capacity has to be integrated to a single Net meter	A single net meter is to be provided at the main entrance metering area.
4	Condition of Soil for Ground mounted installations - is it Rocky or Normal Clay mixed soil	Rocky terrain. However the site visit by the bidders is mandatory.
5	ESA has to be provided on each installations	Query is not clear.
6	Master Control Panel has to be cosidered	Yes
7	Should contractor has to considered fencing for Ground mounted projects	No
8	Security of the installations has to be considered by bidder or Not	Security of the installations till the completion and handing over of the project to NIAB is in the scope of the Bidder.
9	Operation & Maintenance Manpower	Not applicable
10	<p>we wish to inform you that the Estimated Cost of 900 Kwp project Cost as indicated by you is Rs . 4 Crores 40 Lakhs @ Rs. 48.88 Per Watt is out dated one.</p> <p>We request your good selves to enhance the Estimated Price to Rs. 6 Crores 30 Lakhs @ Rs.70.00 Per Watt considering the Present Market Scenario and price escalations to meet tender requirements.</p>	Estimated cost remains the same.
11	Thank you for email confirmation, as per discussion with you due to Continuous Holidays from 13th August 2022 to 15th August 2022 (13th Second Saturday , 14th Sunday and 15th Independence Day) we are requesting you to extend the date for Bid Submission.	Bid submission & Opening Date will be extended suitably.
12	What is the exact tariff of water and electricity during the construction of plants?	Electricity Rs.15 per unit. Water charges as per the consumption.

13	1. 100kWp is not possible at Car Parking Area 2. Main Building has shadow free area only for 50kWp., However, the ground mounted systems area are also less than the required capacity of the solar plant.	At the time of execution the committee will take a decision if any changes at site.
14	However, to accommodate more capacity the angle inclination may be reduced until the plant meets the specified performance ratio requirements. What is the PR Required?	It can be decided at the time of execution.
15	JUNCTION BOXES (JBs) As our inverter has all the necessary protection (i.e. SPD, DC Switch) JUNCTION BOXES (JBs) are not required, Please Comply.	Please quote as per BOQ
16	DC DISTRIBUTION BOARD As our inverter has all the necessary protection (i.e. SPD, DC Switch) DC DISTRIBUTION BOARD is not required, Please Comply.	Please quote as per BOQ
17	The combined wattage of all inverters should not be less than rated capacity of power plant under STC.As our inverter has DC overloading capacity of 20% we can install less AC Capacity. Please Comply.	Please quote as per BOQ
18	Built-in meter and data logger to monitor plant performance through external computer shall be provided. Is there any extra computer have to be provide to monitor the solar power plants?	Please quote as per BOQ
19	payment can be done . Supply: 75% Cost of Material Supplied, Balance Amount, after complete supply , Installation, testing and commission ,successful completion , handing over & acceptance by NIAB competent authorities and submission of PBG for 3 % of Total Cost as per Work Order.	Payment Terms will be as per NIT. No advance payment will be made.
20	Is it mandatory to give separate 100KVA inverter? Can we provide 300KVA, 200KVA inverter for 300Kwp, 200Kwp power plant?	Please quote as per BOQ
21	Supply: 75% Cost of Material Supplied -Balance Amount 25%, after complete supply , Installation, testing and commission ,successful completion , handing over & acceptance by NIAB competent authorities and submission of PBG for 3 % of Total Cost as per Work Order. No advance payment /mobilization advance will be provided.	Payment Terms will be as per NIT. No advance payment will be made.

22	Performance Security: Please specify the Performance Bank Guarantee validity period, please refer (FORM NO- 6)	PBG will be for One Year+ 60 days from the date of final installation, commissioning & handing over Entire project work for 3% of the total value of the work.
23	Inverter 3 Phase 415V,PCU/Inverter ABB/Siemens /GE/ Hitachi /Solis/Sungrow/Schneider /Polycab/Powerone- Can we propose any other makes other than proposed. Also instead of going with 100KWp at single location can we use multiple inverters of lesser sizes.	Please quote as per BOQ.
24	In the "Price schedule-A" qty for various items has given (like cables, DTH based column foundation, earthing protection, etc., works)- The qty in the Form No-12 is fixed. How to claim the cost if the material required is additional than the BOQ given. Please clarify	Please quote as per BOQ.
25	The soil investigation, Jungle clearance and excavation for cables etc. are in the bidder's scope- Do we need to get any permission and approvals from statutory regulatory bodies for tree cutting Or can we cut the trees with NIAB permission. Please clarify	Prior approval shall be obtained from NIAB.
26	Cleaning of modules during AMC- Please specify who will module cleaning will be under whose scope during warranty period and during AMC period of 3 years	AMC Vendor scope
27	Remote Server and Software for centralized Internet monitoring system shall be also provided for download and analysis of cumulative data of all the plants and the dataof the solar radiation and temperature monitoring system.	Bidder to provide all the system related to Energy generation and Monitoring
28	Remote Monitoring and data acquisition through Remote Monitoring System software at the Bank location with latest software/hardware configuration and service connectivity for online / real time data monitoring/control complete to be supplied and operation and maintenance/control to be ensured by the supplier. Provision for interfacing these data on [NAME OF THE ORGANISATION] server and portal in future shall be kept- Internet connectivity or SIM card along with internet data shall be provided by NIAB. Please clarify	Internet facility is not available for Ground Mounted Areas, Other type (GSM/SIM card) arrangement will be provided

29	Remote Monitoring and data acquisition through Remote Monitoring System software at the Bank location with latest software/hardware configuration and service connectivity for online / real time data monitoring/control complete to be supplied and operation and maintenance/control to be ensured by the supplier. Provision for interfacing these data on [NAME OF THE ORGANISATION] server and portal in future shall be kept- For how many years remote monitoring portal charges shall be considered by contractor. Since contractor is responsible for 1 year warranty period and 3 years AMC. Hence, we assume that we shall be responsible for arranging this Remote monitoring portal charges for 4 years from the date of COD. please clarify.	Remote control portal charges are to be considered for one year. However it should be renewable further .Details of Login Id and password should be available with NAB.
30	JB's & DCDB before Inverter asked by Client in specifications- Is this mandatory to use	Please quote as per BOQ
31	1. LIGHTNING PROTECTION Lightening Arrestor ESE type lightening Arrestor Confirming Standards to IEC62561-7, NFC17-102- Is this mandatory for both Rooftop & Ground mount, qty is given as 3 Nos only but solar plant locations are 4 locations. Please clarify should we have to consider 3 Nos only or 4 Nos?	Please quote as per BOQ
32	Interconnection from ACDB to mains at LT Bus bar while in grid tied mode- Spare feeders present at site or we need to connect to bus bars of LT system provided by Client	If existing system is suitable for synchronization Bidder can connect to the feeder otherwise necessary arrangement should be done as per CEIG Norms
33	Existing Overall SLD of the Campus shall be provided- Price will be extra at actuals	No extra price for SLD
34	Reg: Inverter mounting on Rooftop- Wall mount acceptable by client or not?	No extra price for SLD
35	Reg : Ground mount, Water Drains, approach roads(if any) scope- Should we need to consider drains and pathway in the solar plant, please let us know what type of drains and pathways required	It is in the NIAB scope
36	Reg : Ground mount, cable laying scope shall be civil trenches or buried - How the cable laying shall be done, civil trenches, cable trays or buried?	Both cable trench and tray should be considered as per the site condition and Engineering section instructions

37	Reg : Ground mount, Illumination system scope- Should we need to consider illumination for solar plant. What type of illumination to be considered. AC LED lights or DC LED lights please clarify	Illumination will be done by the NIAB
38	What is the capacity of existing solar system on Admin building, is it connected to grid, does it has Net Metering connectivity- Does this system has any Net Metering connectivity	Existing is 100kWp and it is synchronised to net metering
39	Installation of solar system on carport structure is little complicated, since the upper roof of the carport is fiber material- If there is a necessary for rectification works required during installation of solar system. Who will bear the cost.	The cost will be considered by NIAB if any item is out of BOQ
40	What are the working timings for installation and commissioning of solar system- Please clarify if there are any restrictions	Since time is the essence of the project, flexible timings will be considered without any disturbance to the institute but prior approval shall be obtained from the NIAB.
41	Do we have any provision for storage of material once material reaches site	The open land will be provided, covering and security is in the bidders' scope
42	During detailed engineering if we are unable install the capacity of solar system required on Admin building and carport area, how do we handle this issue. Do you provide us any alternate location for balance solar capacity installation	This will be considered by the committee if any after considering all the factors.
43	Does NIAB provide water and power during installation and commissioning of solar plant	Water & Power will be provided by NIAB during the Construction on Chargeable Basis.
44	Bid Submission 15-08-2022, since it is a national holiday and we have to arrange the required DD and prepare the documentation part we require additional 10 days of time extension for bid submission- Consider our request and extend the due date of bid submission	Bid submission & Opening Date will be extended suitably.
45	As per the existing 100 kWp solar system they have considered ballast structure module mounting, can we use the similar kind of structure for Module mounting or should we have to use any other alternate designing of MMS. We are asking this query considering the height of the building and wind speed at the given location. we prefer ballast structure with grouting option -Please provide your opinion	Anchoring / Grouting is not allowed all rooftops mms should be Ballast Type Counter weight Designs. All structures should be withstand of 150 Km/h wind speed (Staad report must)

46	The output power from SPV would be fed to the inverters which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization. In case of grid failure, or low or high voltage, solar PV system shall be out of synchronization and shall be disconnected from the grid. Once the DG set comes into service PV system shall again be synchronized with DG supply and load requirement would be met to the extent of availability of power. 4 pole isolation of inverter output with respect to the grid/ DG power connection need to be provided - With how many DGs solar system shall be synchronised. What are the rating of DG please specify	Dg synchronization is required 40% minimum load on DG. (750 KVA DG sets-02 Nos)
47	1. Kindly mention the 3% Performance Bank Guarantee Duration	PBG will be for One Year+ 60 days from date of final installation , commissioning & handing over Entire project work for 3% of the total value of the work.
48	2. Will the owner provide internet facility for Scada Connection	Internet facility is not available for Ground Mounted Areas, Other type (GSM/SIM card) arrangement will be provided.
49	3. Will the owner provide power & water during the construction & O&M phase of the project	Water & Power will be provided by NIAB during the Construction on Chargeable Basis
50	4. Kindly extend the bid submission date from 16th Aug by another 10 working days.	Bid submission & Opening Date will be extended suitably.
51	Whether car parking is having its own shed or we have to install super structure/high raise structure along with 100 kW solar roof top power plant.	Super Structures are not required, on existing Car Parking structure you have to install the solar modules.
52	Distance from hillock 200 kW area to main building Evacuation point .	Already given in BOQ
53	Distance from Car parking 100 kW to closet Evacuation point.	Already given in BOQ
54	Distance from large animal farms to closet Evacuation points.	Already given in BOQ
55	Also whether we have to provide separate data monitoring devices for each location or capacity or we have to provide single device and then Total generation data will be taken via all power plants to one single device or Location.	Single Point monitoring control is allowed.

Rest of the tender conditions remains same.