

Clarifications for E-mail and Pre bid meeting queries with respect to the Tender for DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND COMPREHENSIVE MAINTENANCE OF 250 KW GRID CONNECTED AND ROOF MOUNTED SOLAR PHOTOVOLTAIC PANELS (SPV) POWER PLANT FOR CARBON NEUTRAL TEA MANUFACTURING IN KAIKATTY INDICO TEA FACTORY IN THE NILGIRIS DISTRICT, are as follows,

1. AC cable requirement – inverter to ACDB to LT/HT panel
 - (a) Copper cable or Aluminium cable
Reply: Copper Cable
 - (b) In ref page no 27, para 5.13 C (mentioned copper flexible cable). But in page no. 28 paragraph 5.14 b mentioned XLPE Insulated unarmored / armored with copper / aluminum conductor
Reply: It is either Copper or Aluminum for underground cable laying. You may quote for either for Copper or aluminum cables.
2. Is there any specific list you have supply of Inverter, module, cables and other accessories.
Reply: No. We don't have any specific list for the above equipment.
3. Any OEM or MAF is required for inverter and module or not?
Reply: Not required.
4. How to evaluate the L1 Bidder (with or without AMC price)
Reply: Refer 6.2 C (h) for more clarity. (Page No. 42 of the Tender Document)
5. Can you allow 10% PBG for 3 years?
Reply: Kindly refer 3.2 for the terms and conditions relating to the Performance Bank Guarantee. No further changes/modifications shall be considered in this regard. (Page No. 10 of the Tender Document)
6. EMD Exception – MSME along with undertaking
Reply: Clause No. 3 D
Exemption From Deposit Of Earnest Money Deposit (EMD):-
Exemption from remittance of EMD for the units holding SSI permanent certificate or EM Part II, UDYOG AADHAR, UDHYAM Registration Certificate issued by Department of Industries & Commerce, Government of Tamilnadu or other state Directorate of Industries in India or by National Small Industries Corporation Limited, Government of India etc., will be considered if an attested copy is enclosed along with duly filled in Tender form.
(Page No.9 of the Tender Document)
7. Lightning arrestor – ESE or conventional type?
Reply: It may be either ESE or Conventional type. However, the Lightning Arrestor should be installed as per the Technical Specifications mentioned in Clause 5.17 (Page No. 30)
8. Need cable layout trench way diagram
Reply: You are request to visit the site to ascertain the cable layout trench way based on the site feasibility and site conditions. Site visits are allowed up to 23.03.2022. Refer Clause 6.18.b for more clarification. (Page No.48)
9. Making standard – materials (particular)
Reply: Query not clear and hence clarification could not be given.
10. Site diagram (or) layouts
Reply: As of now, there is no site photos available. You may visit the site before 23.03.2022 to ascertain the site feasibility.
11. Net metering scope of internal local work (help of influence)

Reply: Refer Clause 5.21 for more clarification with respect to net metering. (Page No.32-33 of the Tender Document)

12. Root sheet thickness size

Reply: GI Roof Sheet Thickness is 0.45 mm. You are request to visit the site to ascertain the stability of roof. Site visits are allowed up to 23.03.2022

13. 371sq.m is suitable for 250 kW solar project

Reply: It has been proposed to construct a new factory building abutting the existing factory building with GI roofing for a total area of 8000 sqft. If the existing roof area is not sufficient for the installation of 250 kW SPV Power Plant, this additional roof structure may also be utilized.

14. Structure material, thickness of 120 microns is suitable

Reply: Kindly refer Clause 5.6 for more clarity in this regard (Page no.23 of the Tender Document)

15. 71 – 13° panel tilt angle is working

Reply: Kindly refer Clause 5.6 for more clarity in this regard (Page no.24 of the Tender Document)

16. Roof edge to mounting structure maximum distance

Reply: Minimum distance between roof edge and mounting structure is 0.6m. You are request to visit the site to ascertain the maximum distance in this regard. Site visits are allowed up to 23.03.2022

17. Solar panel type

Reply: Kindly refer 5.4 for more clarity in this regard. (Page No. 21 -23 of the Tender Document)

18. What is the type of metal roofing sheet?

Reply: GI Roof Sheet Thickness is 0.45 mm. The GI Sheets are newer one (Replaced on March 2022)

19. What is the metal thickness structure design to support the roof?

Reply: You are request to visit the site to ascertain the thickness and load bearing capacity of the structure that support the roof. Site visits are allowed up to 23.03.2022

20. Kindly provide the plan and elevation of the building of the proposed roof top solar power plant?

Reply: You are request to visit the site and the layout and elevation of the building is available at the factory. Site visits are allowed up to 23.03.2022

21. Is the proposed solar roof top power plant for a single building or more?

Reply: It has been proposed to construct a new factory building abutting the existing factory building with GI roofing for a total area of 8000 sqft. If the existing roof area is not sufficient for the installation of 250 kW SPV Power Plant, this additional roof structure may also be utilized.

22. Existing capacity of the factory is 215 kW. TANGEDCO allowing only 90% of the solar capacity for HT. If you want to do for 250 kW solar plant, you have to increase the load to 280 kW.

Reply: The process of upgrading is under progress and is expected to be completed within one month.

23. Point 5.6 solar PV module mounting structure hot dip galvanized is 120 microns, the standard for solar structure is 80 microns only. (Request to change the same)

Reply: Kindly refer Clause 5.6 for more clarity in this regard (Page no.23 of the Tender Document). No further changes/modifications shall be considered in this regard.

24. We have Udhayam Registration Certificate, UDYOG AADHAR, TEDA Registration certificate (Tamilnadu Energy Development Agency), MNRE, MSME, SS I, NSIC Certificate, Is there any possible for Fees Exemption for Bid Processing Fee to this Tender
Reply: It is compulsory to pay the Bid processing Fee (Tender cost). Tender submitted without the Bid Processing Fee will be summarily rejected.
25. You have Mentioned Total area of Roof Size – 371 Sq. m of Shadow free Area, Actually need 1858 Sq. m (approx..) for 250 KW Rooftop of Shadow free Area Kindly Clarify the Roof Area Size for this tender and also clarify the Type of Roof
Reply: It has been proposed to construct a new factory building abutting the existing factory building with GI roofing for a total area of 8000 sqft. If the existing roof area is not sufficient for the installation of 250 kW SPV Power Plant, this additional roof structure may also be utilized.
26. For GI Sheet we are providing Aluminium Length Rail but you mentioned 50 * 50*5 mm Aluminium L Angle Minimum distance between Roof Edge and Mounting Structure 0.6 m (it is not required for roof Mounting)
Reply: It may be changed as per the site conditions without compromising the stability and wind withstanding capacity, or penetrating the sheet metal and fixing to the sub-structure, ensuring that the roof remains water proof and ensuring stability and wind withstanding capacity.
27. As per CEIG & TANGEDCO rules Walkpath & Edge protection is Compulsory for GI / Asbestos Rooftop
Reply: No remarks.
28. Kindly add in the tender terms that the JV or Consortium companies also can participate in the tender so that good & Experienced companies also can be able to bid in the tender for which more competitive best price and good quality work would be beneficial to your esteemed organization.
Reply: Those Company/firm which satisfies the Eligibility criteria mentioned in Chapter 2 of the Tender Document will be considered as qualified. No further changes/modifications shall be considered in this regard.
29. As per the tender document says DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND COMPREHENSIVE MAINTENANCE OF 250 kW GRID CONNECTED SOLAR POWER PLANT, Shall we consider 1:1 (DC and AC) capacity
Reply: It may be considered as 1:1
30. Is the net metering under scope of bidder?
Reply: Yes.
31. CA certificate was recently taken for the another tender participation. Can we use the same for this tender against Annexure-IV.
Reply: Original Certificate obtained from the Chartered Accountant shall be enclosed.
32. Is the feasibility certificate under the scope of bidder?
Reply: Obtaining of all statutory permissions / certificates from concerned Government Department / Institutions etc is under the scope of bidder.
33. During the site survey conducted we found that the water source is located approximately 130M apart from the proposed site. Will an easy access be provided for the water source as the water has to be supplied to the rooftop.
Reply: It will be provided on request during or after implementation.
34. We have a single 500kW project completed. Can we use this experience instead of 2nos of 250kW power plant for tender participation.

Reply: Those Company/firm which satisfies the Eligibility criteria mentioned in Chapter 2 of the Tender Document will be considered as qualified. No further changes/modifications shall be considered in this regard.

35. With reference to the tender called for, the eligibility clause is, “ The bidder should have a previous experience in similar installations and commissioning and should have completed at least 2 individual projects of not less than 250 kW total installation capacity anywhere in India in the last 5 financial years i.e. 2016-17, 2017-18, 2018-19, 2019-20 and 2020-21.” We have completed single 500kW project against a Work Order. And in another work order for a single 400kW project, we have connected 300kW to grid and running successfully. The experience list is attached herewith.

Reply: Kindly refer Clause 2 sub clause 3 for eligibility criteria. (Page No. 7 of the Tender Document). No further changes/modifications shall be considered in this regard.

36. With reference to the site survey conducted it was noticed that there is only enough space for installing 336 Nos of panels with the present site condition. The same was informed to the officer, Mr. Vincent (Maintenance In Charge) and was informed verbally that the building is going to be extended. Hence it will be difficult to installation with Non-DCR or DCR panel with the present site condition. Also note that the tender clause,“ Solar PV modules should be of the crystalline silicon type, manufactured in India. A Solar PV cell shall be considered to be domestically manufactured only if the same is manufactured in India, using undiffused silicon wafer (generally called Black Wafer) classifiable under customs Tariff Head 3818 and all steps / processes required for manufacturing solar PV Cell from the undiffused silicon wafer have been carried out in India.” exist and the maximum capacity of DCR panel available in market is only 335Wp.

Hence, kindly provide us a confirmation to space availability & type of panel (DCR or Non-DCR) used for the project in written.

Reply: It has been proposed to construct a new factory building abutting the existing factory building with GI roofing for a total area of 8000 sqft. If the existing roof area is not sufficient for the installation of 250 kW SPV Power Plant, this additional roof structure may also be utilized. Kindly refer Clause 5.3 with respect to the Module Minimum Rated Power for more clarity. No further changes/modifications shall be considered in this regard.

37. Annual turnover of the Bidder should be at least Rs.1.00 Crore, in each of the last 5 financial years i.e. 2016-17, 2017-18, 2018-19, 2019-20 and 2020-21

Reply: Those Company/firm which satisfies the Eligibility criteria mentioned in Chapter 2 of the Tender Document will be considered as qualified. No further changes/modifications shall be considered in this regard.

38. The selected Approved Bidder shall be required to furnish a Performance Bank Guarantee (PBG) equivalent to 10% of the total rate quoted for the Design, Supply, Installation, Testing and Commissioning of SPV Power Plant in the form of Demand Draft / Banker's Cheque / an unconditional and irrevocable Bank Guarantee from a scheduled / commercial bank in India in favour of “THE INDCOSERVE” valid for a period of 12 months.

Reply: Refer Clause 3.2 for clarity in this regard. No further changes/modifications shall be considered in this regard.

39. Page no 19, The Approved Bidder shall provide a minimum generation guarantee corresponding to a capacity utilization factor (CUF) of 17% (the “Guaranteed CUF”) with respect to the DC capacity of the PV system.

Reply: As per the MNRE Guideline, only the minimum requirement is stated as 15%. Hence, no further changes/modifications shall be considered in this regard.

40. Page no 19, c) The INDCOSERVE will recover an amount at the rate of Rs. 8.00 per kWh/ TNERC fixed rate from the Approved Bidder for such shortfall at the end of the contract year to compensate the same.

Reply: It is clarified that the compensation is relaxable only for grid non-availability for evacuation as per the MNRE Guidelines.

41. 5. Page no 24 Solar Array Fuse: The cables from the array strings to the solar grid inverters shall be provided with DC fuse protection. Fuses shall have a voltage rating and current rating as required.
Reply: It is up to your end to quote for higher version and is up to your firm to decide whether to quote for inbuilt Solar Array Fuse without compromising the technical specifications of the Tender.
42. Distance (in meters) between site to the termination point or LT panel?
Reply: Kindly visit the site to ascertain the exact distance. You may visit the site before 23.03.2022.
43. Request for Site photos?
Reply: As of now, there is no site photos available. You may visit the site before 23.03.2022.
44. Is there suitable Spare feeder is available at the termination point?
Reply: No. It is not available.
45. Height of the roof where the solar plant to be installed?
Reply: Around 50 feet from the ground level. Further You are request to visit the site to ascertain exact height. Site visits are allowed up to 23.03.2022
46. For Indian make 335Wp Module have average efficiency of 16.5 - 16.8%. So please consider module efficiency as 16.5%
Reply: No further changes/modifications shall be considered in this regard. Kindly refer Clause 4.17 for more clarity in this regard. (Page No. 19 of the Tender Document)
47. As all the latest inverter models from reputed inverter manufacturers are fuse free models. So kindly reconsider this clause.
Reply: No further changes/modifications shall be considered in this regard. Kindly refer Clause 5.8 for more clarity in this regard. (Page No. 24 of the Tender Document)
48. As all the latest inverter models from reputed inverter manufacturers are without display, we request that display-less inverter models be permitted to be supplied. We can provide Data Logger for monitoring?
Reply: No further changes/modifications shall be considered in this regard. Kindly refer Clause 5.8 for more clarity in this regard. (Page No. 24 of the Tender Document)
49. Kindly consider aluminum cables instead of copper cables
Reply: No further changes/modifications shall be considered in this regard. Kindly refer Clause 5.13 for more clarity in this regard. (Page No. 26 of the Tender Document)
50. String inverters have the inbuilt string monitoring devices. So please remove this clause.
Reply: No further changes/modifications shall be considered in this regard. Kindly refer Clause 5.18 for more clarity in this regard. (Page No. 30 of the Tender Document)
51. Sir if any kind of Physical damage is done to the modules then its replacement should not be in bidder's scope. Also any kind of other fault is covered by warranty provided by the Module OEM. An amount of spare can be considered to replace the damaged modules but the quantity needs to be specified by the client.
Reply: Kindly refer Clause 4.9.m. for clarity in this regard.(Page No. 13 of the Tender Document). No further changes/modifications shall be considered in this regard.
52. Sir if any kind of Physical damage is done to the inverter then its replacement should not be in bidder's scope. Also any kind of other fault is covered by warranty provided by the Inverter OEM. An amount of spare can be considered to replace the damaged Inverter but the quantity needs to be specified by the client.

Reply: Kindly refer Clause 4.9.m. for clarity in this regard. (Page No. 13 of the Tender Document). No further changes/modifications shall be considered in this regard.

53. As the System is On Grid Solar plant no battery will be used.
Reply: It is clearly mentioned as 'IF ANY' in clause 4.9.f.vii. (Page No. 14 of the Tender Document).
54. Does the bidder needs to depute a personnel for the period of 5 years during O&M. Also, if the personnel has to be provided kindly share the time schedule i.e. whether we need to monitor the plant for 24*7.
Reply: It is up to your firm to provide a dedicated personnel for CMC period to meet out all the conditions and works mentioned Clause 4.9
55. Kindly mention the number of cycles for cleaning as well as the schedule for normal maintenance.
Reply: It is up to your firm to ascertain the cleaning cycle according to the site conditions.
56. As per the minimum distance between roof edge and mounting structure i.e. 0.6m the structure needs to be elevated in the south facing direction which means that more structure will be used which in turn will increase the load on the tin shed. So, Kindly clarify.
Reply: You are requested to visit the site and ascertain the feasibility of the site condition for the installation of SPV Power Plant before submitting your Bid.
57. The bidder has to provide a single motor. No additional overhead tank has to be provided.
Reply: Kindly refer Clause 4.13. The Approved Bidder has to provide a permanent arrangement for cleaning purpose. (Page No. 17 of the Tender Document).
58. The AC output from the Solar Grid Inverter will be terminated at the client LT panel? It is requested to provide the approx. distance for the termination.
Reply: You are requested to visit the site and ascertain the feasibility of the site condition for the installation of SPV Power Plant before submitting your Bid.
59. The demand fee generated for the Net metering connection has to be payed by the bidder or the client.
Reply: Approved Bidder has to pay the demand fee.
60. Sir as a solar EPC company we will not be sub-contracting the whole work but certain work such as work related to Civil, Housekeeping etc needs to be carried out by local companies to ease out the work.
Reply: Refer Clause 7.2.6.II for more clarity in this regard. (Page No. 55 of the Tender Document).
61. The Maintenance Charges shall be released on quarterly basis after completion of the period of the previous quarter.
Reply: Maintenance Charges will be released as per the conditions mentioned in Clause 8.ii. (Page No. 70 of the Tender Document).
62. Kindly clarify the location of ACCB & Inverter, whether it will be installed inside or outside beneath a shed?
Reply: You are requested to visit the site and ascertain the feasibility of the site condition for the installation of ACCB and Inverter.
63. Can we install Solar Modules in parallel to the Roof Tilt Angle?
Reply: North – south orientation with a fixed tilt angle of 11 – 13 degrees (depending on location), south facing. Refer Clause 5.6 in this regard.
64. While you have an MD of 140KVA, you are opting for a 250KWp Solar power plant. When will you upgrade to higher MD Rating to facilities Solar Power Plant Connectivity? We are enclosing a recent

TNERC Order on GISS – RTS & Ground Mounted Solar Power Plants of size 1MW and lower for HT customers for your kind perusal, reference and usage.

Reply: The process of upgrading is under progress and is expected to be completed within one month.

65. There is no Access to the Rooftop which is about 60Feet(as mentioned by your team)
Will Indcoserve setup a MS Fabricated Utility Platform (Walkway with Handrail) at the Rooftop Level for access to work on the Rooftop?

If in case, Indcoserve wants us to do the job can we submit an offer for the additional work?

Reply: Kindly refer Clause 6.23 for more clarification in this regard.

66. The eastern side of the Factory Building has Trees which will result in shadows on the Solar Modules.
Will Indcoserve do the tree trimming regularly to prevent shadow on the solar power plant?

Reply: Kindly refer Clause 4.18 for more clarification in this regard.

67. There is no provision in the existing control panel for End termination of the AC Power cable from the solar plant.

a) Will Indcoserve provide additional facility?

b) Do we need to provide the facility and Quote a cost for the same?

Reply: Kindly refer Clause 5.12 and 5.13 for more clarification in this regard. This work is coming under the scope of Bidder.

68. Kindly provide location details where we can provision the inverters, DCDB & ACDB.

Reply: You are requested to visit the site and ascertain the feasibility of the site condition for the installation of Inverters, DCDB and ACDB.

69. Payment terms: Kindly let us know if Indcoserve can amend the Payment terms as 50% upon delivery of the solar modules and Inverters at the project site and balance against completion and commissioning.

Reply: Kindly refer Clause 6.12 for more clarification in this regard. Hence, no further changes/modifications shall be considered in this regard.

70. Tender Notice, Page No 23, Point No 5.6 Solar PV Modules Mounting Structure. Please confirm are we allowed to drill anchor fasteners on the metal shed to attached the Module Mounting Structure

Reply: Depends of the site condition, you may allowed to drill anchor fasteners so as to ensure that the roof remains water proof and ensuring stability and wind withstanding capacity.

71. Tender Notice, Page No 25, Point No 5.8 Solar Grid Invertor. Please note the new generation Inverters do not have LCD/LED display. They are managed online or via Bluetooth.

Reply: No further changes/modifications shall be considered in this regard.