

**BANGALORE DIVISION-ELECTRICAL/SOUTH WESTERN RLY
TENDER DOCUMENT**

Tender No: BE-29-2022-23-OT-03

Closing Date/Time: 23/05/2022 11:00

Sr. Divisional Electrical Engineer General SBC acting for and on behalf of The President of India invites E-Tenders against Tender No BE-29-2022-23-OT-03 Closing Date/Time 23/05/2022 11:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Provision of Solar roof top Photo Voltaic power system at 7 stations under solar mission.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	23/05/2022 11:00	Date Time Of Uploading Tender	29/04/2022 15:18
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	7737497.00	Tendering Section	GENERAL
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	154800.00	Validity of Offer (Days)	45
Tender Doc. Cost (Rs.)	0.00	Period of Completion	4 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	09/05/2022	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 01-Provision of Solar Roof Top Photo Voltaic power system at 7 stations under solar Mission							7737497.00	
1	Please see Item Breakup for details.				7737497.00	AT Par	7737497.00	
Description:- Provision of Solar Roof Top Photo Voltaic power system at 7 stations under solar Mission								

3. ITEM BREAKUP

Schedule	Schedule 01-Provision of Solar Roof Top Photo Voltaic power system at 7 stations under solar Mission						
Item- 1	Provision of Solar Roof Top Photo Voltaic power system at 7 stations under solar Mission						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	Design, supply,installation,testing and commissioning of ON GRID 14 KWp solar roof top power generating system with required solar PV module panels, MS Hot dipped Galvanized structure suitable to mount the panles including standard junction boxes, required distribution boards with switchgear , suitable connectors & copper cables , suitable solar inverter with inbuilt MPPT , DC input range 240-500V and out put 415V - 3 phase , EB approved Bidirectional energy meter, maintenance free earthings -3 Nos , suitable lighting protection with lighting conductors etc., as per specifications including all necessary accessories as per site condition.	Set	2.00	1091631.00	2183262.00	
2	2	Design, supply,installation,testing and commissioning of ON GRID 16 KWp solar roof top power generating system with required solar PV module panels, MS Hot dipped Galvanized structure suitable to mount the panles including standard junction boxes, required distribution boards with switchgear , suitable connectors & copper cables , suitable solar inverter with inbuilt MPPT , DC input range 240-500V and out put 415V - 3 phase , EB approved Bidirectional energy meter, maintenance free earthings -3 Nos , suitable lighting protection with lighting conductors etc., as per specifications including all necessary accessories as per site condition.	Set	1.00	1226651.00	1226651.00	

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3	3	Design, supply,installation,testing and commissioning of ON GRID 13 KWp solar roof top power generating system with required solar PV module panels, MS Hot dipped Galvanized structure suitable to mount the panles including standard junction boxes, required distribution boards with switchgear , suitable connectors & copper cables , suitable solar inverter with inbuilt MPPT , DC input range 240-500V and out put 415V - 3 phase , EB approved Bidirectional energy meter, maintenance free earthings -3 Nos , suitable lighting protection with lighting conductors etc., as per specifications including all necessary accessories as per site condition.	Set	1.00	1041231.00	1041231.00
4	4	Design, supply,installation,testing and commissioning of ON GRID 15 KWp solar roof top power generating system with required solar PV module panels, MS Hot dipped Galvanized structure suitable to mount the panles including standard junction boxes, required distribution boards with switchgear , suitable connectors & copper cables , suitable solar inverter with inbuilt MPPT , DC input range 240-500V and out put 415V - 3 phase , EB approved Bidirectional energy meter, maintenance free earthings -3 Nos , suitable lighting protection with lighting conductors etc., as per specifications including all necessary accessories as per site condition.	Set	1.00	1142031.00	1142031.00
5	5	Design, supply,installation,testing and commissioning of ON GRID 17 KWp solar roof top power generating system with required solar PV module panels, MS Hot dipped Galvanized structure suitable to mount the panles including standard junction boxes, required distribution boards with switchgear , suitable connectors & copper cables , suitable solar inverter with inbuilt MPPT , DC input range 240-500V and out put 415V - 3 phase , EB approved Bidirectional energy meter, maintenance free earthings -3 Nos , suitable lighting protection with lighting conductors etc., as per specifications including all necessary accessories as per site condition.	Set	1.00	1292051.00	1292051.00
6	6	Design, supply,installation,testing and commissioning of ON GRID 10 KWp solar roof top power generating system with required solar PV module panels, MS Hot dipped Galvanized structure suitable to mount the panles including standard junction boxes, required distribution boards with switchgear , suitable connectors & copper cables , suitable solar inverter with inbuilt MPPT , DC input range 240-500V and out put 415V - 3 phase , EB approved Bidirectional energy meter, maintenance free earthings -3 Nos , suitable lighting protection with lighting conductors etc., as per specifications including all necessary accessories as per site condition.	Set	1.00	852271.00	852271.00
					Total	7737497.00

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have received contractual payments in the previous three financial years and the current financial year up to the date of opening of tender, at least 150% of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department /client and/or Audited Balance Sheet duly certified by the Chartered Accountant etc.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender or One similar work each costing not less than the amount equal to 60% of advertised value of the tender. Definition of Similar Nature of Works Applicable: Supply, installation, testing and commissioning of solar power generating system of at least 5KWp capacity.	No	No	Allowed (Mandatory)
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Submission of Document Verification Certificate

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio)	No	No	Allowed (Mandatory)

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Bill of Quantities, Mandatory Documents & Forms of Tenders required to be uploaded by the bidders are attached with this Tender under Chapter VII. Bidders are advised to upload all mandatory documents as per the tender	No	No	Not Allowed
2	The rates quoted for the relevant items of work shall include the cost of materials and equipments, their accessories, fixing labour, together with the cost of providing the necessary tools and tackles etc., so as to ensure that the work carried out forms a complete installation to the satisfaction of the Engineer-in-charge.	No	No	Not Allowed
3	Tenderers are advised to Submit all the documents required to be uploaded by them in Hindi, English or Kannada. Documents uploaded in any other language shall be translated to Hindi, English or Kannada and attested copy may be uploaded for better appreciation of the tender	No	No	Not Allowed
4	Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer	No	No	Not Allowed
5	Supply of Materials by Contractors - Material Supply will be taken by the Railways as per the site conditions in part or full as per the instructions of the Engineer in-charge. Contractors are bound to adhere to the instructions of Engineer In Charge regarding the supply of materials.	No	No	Not Allowed
6	The tenderers are advised to carefully read the Tender Document attached with this Notice Inviting Tender (NIT) in conjunction with Indian Railways Standard General Conditions of Contract- 2020 with latest amendments and Correction Slips before participating in this Tender	No	No	Not Allowed

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7	CORRIGENDUM NOTICE ON IREPS: Railway may modify the tender document by issuing online corrigendum through "www.ireps.gov.in" 15 days prior to the tender closing date. For the purpose of CORRIGENDUM in the tender, NIT period is split as under: (a) ADVERTISEMENT PERIOD: The time during which all information pertaining to tender shall be available but offers cannot be submitted. (b) OFFER SUBMISSION PERIOD: 15 days prior to closing of tender, during which tenderers can submit their offer."	No	No	Not Allowed
8	LIAISON WITH EB AUTHORITIES The responsibility to liaison with the EB authorities for obtaining necessary approvals for interconnection with GRID, charging of the lines etc lies with the contractor. Necessary forms in this regard may be obtained by the contractor and approval of the Railway authorities may be obtained for onward submission to EB authorities. Statutory charges to be paid in this connection shall be borne by the contractor.	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer shall upload documents containing the particulars of the offer like make, model and technical specification of all items to be supplied for the list enclosed in Annexure-C under Chapter VII of tender document intended to be provided by contractor without which the offer will be summarily rejected.	Yes	Yes	Allowed (Mandatory)
2	Tender Form Filled and signed as per Annexure A should be uploaded by the tenderer.	Yes	Yes	Allowed (Mandatory)
3	TENDERERS CREDENTIALS: The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.	Yes	Yes	Allowed (Mandatory)
4	The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / HUF etc. Necessary documents to this effect as applicable, as per Clause No. 14 of tender form (second sheet) of Tender Document to be uploaded	Yes	Yes	Allowed (Mandatory)
5	A copy of Power of attorney duly stamped and authenticated by a Notary Public or by Magistrate, if applicable, as per Clause No. 15 of tender form (second sheet) of Tender Document to be uploaded.	Yes	Yes	Allowed (Optional)
6	Information regarding Employment/Partnership etc. of Retired Railway Employees as per as per Clause No. 16 of tender form (second sheet) of Tender Document to be uploaded.	Yes	Yes	Allowed (Mandatory)
7	The successful tenderer has to submit the details regarding engagement of contract labourers and the Checklist for the same is enclosed as Annexure in the tender document. The same has to be submitted by the successful tenderer while submitting the PG.	Yes	Yes	Not Allowed
8	The successful tenderer have to furnish initial schematic drawing duly inspecting the site with SSE incharge before taking up the work and final schematic diagram as per the work done shall be submitted after completion of the entire work	Yes	Yes	Not Allowed
9	Vide Para No.14 of GCC, the tenderer shall submit an undertaking that the firm as an individual/HUF/Partnership/ Company/LLP is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids.	Yes	Yes	Allowed (Mandatory)
10	The PV Modules shall be warranted for minimum of 10years against all material/manufacturing defects and workmanship. The inverter shall be warranted for minimum of 05 years against all material/manufacturing defects and workmanship. 4.The PV Modules used in grid connected solar power plants must be warranted for peak output wattage, which should not be less than 90% at the end of 10years and 80% at the end of 25years.	Yes	Yes	Not Allowed

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11	The tenderer should upload a certificate citing abidance to 10 years warranty obligation for SOLAR PV Modules and 05 years for PCU/ inverter duly signed by the tenderer. Further, The PV Modules used in grid connected solar power plants must be warranted for peak output wattage, which should not be less than 90% at the end of 10years and 80% at the end of 25years. Before submitting the final bill, the successful tenderer has to submit warranty certificate on Stamp Paper of value Rs 200/-citing abidance to 10years warranty obligation for SOLAR PV Modules and 05 years for PCU/ inverter and the PV Modules used in grid connected solar power plants must be warranted for peak output wattage, which should not be less than 90% at the end of 10years and 80% at the end of 25years duly signed by the tenderer and certified by Notary against failure for PV MODULES AND INVERTER/ PCU etc for a period from the date of passing of Final Completion Certificate for the work. In case of failure to comply with the warranty obligation this undertaking will be a valid binding document for taking legal action for default.	Yes	Yes	Allowed (Mandatory)
12	contractors to Ensure net metering with the concerned Distribution Company on behalf of Railways and to Facilitate the execution of the Net Metering agreement (including procurement & all cost related to Net Metering connection thereof) of Railways with the utility.	Yes	Yes	Not Allowed
13	RITES/RDSO inspection to be carried out for all materials detailed in Clause no. 7 "INSPECTION OF MATERIALS" under special conditions of contract of the tender document.	Yes	Yes	Not Allowed
14	The contractor shall guarantee satisfactory working of the installation erected by him for a period of Thirty Six calendar months beginning from date of issue of completion certificates.	Yes	Yes	Not Allowed
15	Bidders are required to Upload self-certificate by Class-I/ Class-II local suppliers at the time of tender in regard to meeting the Minimum Local Content requirement as per accordance with Para-9(a) of Public Procurement(Preference to Make in India) Order 2017 with latest revisions. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in PUBLIC PROCUREMENT POLICY ORDER-2017 with latest revisions. Provisions of make in India Policy 2017 issued by Govt of India, DPIIT, as amended from time to time shall be followed. Definition: Definition of terms are as per Public Procurement (Preference to Make in India) Order 2017 with latest revisions. Minimum Local Content: The 'Local content' required to categorize a supplier as Class I local supplier is minimum 50%. For Class II local supplier, the local content requirement is minimum 20%. Nodal ministry/ department may prescribe only a higher percentage of Minimum local content requirement to categorize a supplier as class 1 local supplier /class-II local supplier. For the items for which nodal ministry / department has not prescribed higher minimum local content notification under the order, it shall be 50% and 20% for class 1 local supplier and class-II local supplier respectively. Local content means the amount of value added in India which shall unless otherwise prescribed by the Nodal ministry, be the value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as p proportion of the total value, in percent.	Yes	Yes	Allowed (Mandatory)
16	Prices shall be quoted as per details shown in Schedule of Work. The prices quoted shall be firm and not subject to variations for any reasons whatsoever. The prices quoted shall be NET including all taxes and duties etc.	Yes	Yes	Not Allowed
17	Deviations, if any, shall be brought out in the table as per Annexure D by the tenderers. Any deviation from the tender document and conditions which has not been brought out here shall not be considered. If, no such deviations are brought out in the offer, it will be deemed that the tenderer has fully understood the requirements of the tender and no extra cost will be paid under any circumstances for carrying out the works under this tender in accordance with the interpretations of the Engineer-in-charge.	Yes	Yes	Allowed (Optional)
18	Spares as per Clause no. XVII of Technical specifications for Solar PV system under Chapter V shall be provided by the contractor.	Yes	Yes	Not Allowed
19	Documents that are to be uploaded mandatorily without which the bid will be summarily rejected are mentioned in CHAPTER -VII of the tender document.	Yes	Yes	Allowed (Optional)

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20	The downtime of the solar PV system installed at each location shall not be more than 72 hours. If the defects in the solar PV system are not rectified within a period of 72 hours, maintenance period of 36 months will be extended accordingly and SD will be released after completion of the extended maintenance period.	Yes	Yes	Not Allowed
21	Tenderers Credentials: The work shall be carried out only by licenced contractors having valid class of electrical contractors licence for carrying out this work of the voltage class involved or employed a person having a valid class of electrical contractors licence on regular basis for carrying out this work of the voltage class involved, issued by any state government. And this work shall be carried out under the direct supervision of a person holding valid certificates of competency for the same voltage classes issued or recognised by the State Government. Valid Class 2 licence or equivalent/ higher grade equivalent licence as per the voltage class involved in this work. i.e. licence for execution of works for a voltage class of minimum 440 V or above. The Electrical contractor licence shall be mandatorily uploaded in the IREPS website while submitting the bid without which the bid will be summarily rejected.	Yes	Yes	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	1.pdf	PREAMBLE
2	2.pdf	INSTRUCTION TO TENDERERS
3	3.pdf	General Conditions of Contract
4	4.pdf	Special conditions of contract
5	5.pdf	TECHNICAL SPECIFICATIONS EXPLANATO
6	6.pdf	Price Payments and Penalties
7	7.pdf	BOQ Mandatory Docs and Forms

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: GAURANG GUPTA

Designation : Sr.DEEG