

**JAWAHARLAL NEHRU PORT TRUST
M&EE DEPT.
(UTILITY SERVICES/ EM-TS)**

JNPT/M&EE/US/EM/TS/Solar System Tahsildar Uran/2022/

Date: 17.02.2022

Sub: Requirement of Budgetary Offer for Design, Supply, Installation, Testing and Commissioning (DSITC) of solar system under Corporate Environmental Responsibility (CER) at Tahsildar Office, Uran.

Please note that Jawaharlal Nehru Port Trust, Navi Mumbai is planning for installing **solar system under Corporate Environmental Responsibility (CER) at Tahsildar Office, Uran.** This work JNPT is carrying out under Corporate Environmental Responsibility (CER). It is therefore, the budgetary offers are required for the subject work.

1. The **Technical Specification** are given below:

Sr. No.	Description	To be filled by tenderer :Technical Details offered by the Tenderer (In case of Same offer write YES or In case of any remark write it for below items)
1	Design, Supply, Installation and Commissioning of the 6.3 KWP (Total No. of modules mounted 14 nos. X 450 WP = 6.3 KWP) Solar PV Plant with Aluminium Rail and Clamps, ACDB, Earthing and LA protection systems, Plant Remote Monitoring, AC & DC Cables, other required accessories.	
2	Net Metering is required.	
3	Permission for Net Metering, Local Authority, and Electrical Inspector Office etc. shall be in the scope of Contractor.	

2. Equipment Selection:

Sr. No.	Item Description	Makes	Warranty
1	Solar Modules	Any reputed Make.	10 years.
2	Solar Grid Tied Inverter 3 phase or 1 phase as required.	Any reputed Make.	10 years.
3	Module Mounting Structure	Aluminium Clamps and Rails	10 years.
4	Solar Cables (DC)	1C X 4 Sq. mm. Copper - Any Reputed Make	1 year.
5	AC Cables	3C/4C Copper Lex. 6 sq. mm. and Aluminium XLPE Armoured 10 sq. mm.- Any Reputed Make.	1 year.
6	AC & DC Surge Protection Device (SPD)	Any Reputed Make.	1 year.
7	AC Disconnect Box	Any Reputed Make.	1 year.
8	Switchgear	Any Reputed Make.	1 year.
9	Remote Monitoring System	Any Reputed Make.	1 year.
10	Lightning Protection System	Any Reputed Make.	1 year.
11	Chemical Earthing System	2m, GI 40 mm Pipe in Pipe Rod etc.	1 year.

3. BOQ for Design, Supply, Installation, Testing and Commissioning (DSITC) of solar system under Corporate Environmental Responsibility (CER) at Tahsildar Office, Uran.

Sr. No.	Description	Unit	Quant.	Amount without GST in Rs.	GST @... %	GST Amount in Rs.	Amount with GST in Rs.
1	Design, Supply, Installation and Commissioning of the 6.3 kWp (Total No. of modules mounted 14 nos. X 450 WP = 6.3 KWP) Solar PV Plant with Aluminium Rail and Clamps, ACDB, Earthing and LA protection systems, Plant Remote Monitoring, AC & DC Cables, other required accessories.	Lump sum	01				
					Total In Rs.		

4. Scope of works shall include:

- a. The scope of work shall be Design, Supply, Installation and Commissioning of the 6.3 kWP (Total No. of modules mounted 14 nos. X 450 WP = 6.3 KWP, Sloping Roof South 4 nos. and Sloping Roof South – North 10 nos.) Solar PV Plant with Aluminium Rail and Clamps, ACDB, Earthing and LA protection systems, Plant Remote Monitoring, AC & DC Cables, other required accessories as mentioned in Technical Specification and BoQ.
- b. All necessary Spare parts/Tools have to be provided by the contractor.
- c. The complete Set of Goods shall be warranted by the contractor against any manufacturing/ design/ installation defects for a minimum period of as mentioned above from the date of installation.
- d. The contractor will make all necessary arrangements for satisfactory operation, maintenance and performance of the Goods during the Warrantee period.
- e. Rectification of all the defects developed in the Goods during Warrantee period shall have to be done by the contractor promptly, at the most within 2 days from the date of receipt of compliant.
- f. Warrantee will include rectification /replacement of all the defective and consumable components/items. During Warrantee/Guarantee period, all the arrangements for keeping all the goods functional shall be the sole responsibility of the contractor.
- g. After completion of the proposed works, clearances of all temporary works/ materials shall be the sole responsibility of the contractor and this shall be removed immediate after the requirement of such temporary work is completed.
- h. All the nonfunctional parts/ materials/ items replaced during the Warrantee/Guarantee period shall be the property of the contractor.
- i. The contractor will conduct on-site training of the purchaser's/user's personnel regarding the assembly, start-up, operation, maintenance and repairs of the Goods.
- j. All works carried-out by the contractor should be maintained and ensure proper functioning of solar system during the warrantee period starting from the date of final acceptance.
- k. The Contractor will be responsible for all engineering and design.
- l. The contractor will explain and train the responsible person of the Tahsildar office, Uran for cleaning of the solar PV module.
- m. To comply with BoQ and technical specification of this enquiry.
- n. Pictorial diagram for reference is attached herewith.