



KERALA STATE EX-SERVICEMEN DEVELOPMENT AND REHABILITATION CORPORATION

(KEXCON - A Govt. of Kerala Undertaking)

CIN - U 91990 KL 2001 NPL 015107

GSTIN - 32AABTK2648H1ZT

TC 25 / 838,
Opp. Amritha Hotel, Thycaud
Thiruvananthapuram - 695 014

Tele : 0471 - 2320772
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05-12-2023

501(1)/Proj/Solar/KEXCON

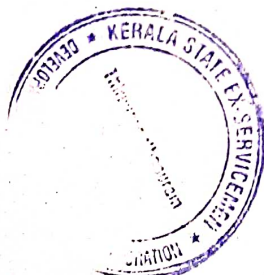
TENDER NOTICE

Item rate limited tenders are invited from the KEXCON empanelled agencies for the following work through online bid (two cover system) through KEXCON Kerala.
Website <http://www.kexcon.in>

Ser No	Name of Work	Time for Completion
1.	Supply of 20 KW On-grid Solar Power Generating System at Malabar Rural Development Foundation, Kozhikkode <ul style="list-style-type: none">Gautam mono PERC cut cell solar panels - 37 Nos.20 KW UTI Inverter - 3 PhaseAll Electrical Accessories with Cable and Earthing Materials	20 Days

The bidder shall quote the unit rate for each item alongwith applicable taxes in the format given below :-

Tender Type : Limited
Bid Submission Start Date : 05-12-2023
Bid Submission End Date : 12-12-2023
Bid Opening Date : 13-12-2023
Cost of Tender Documents : Rs. 1500/-
EMD : NA




Capt. Vinod Mathew (Rtd)
Managing Director (I/C)
Kerala State Ex-Servicemen
Development Rehabilitation
Corporation, Thiruvananthapuram

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**QUOTATION NOTICE FOR SOLAR PANEL MOUNTING STRUCTURAL WORK AT
MALABAR RURAL DEVELOPMENT FOUNDATION, KOZHICKODE**

Ser No	Description	Qty
1	- Supply of 20 KW On-grid Three Phase Mono PERC Cut Cell Solar panel system 540Wp Solar Panel 37 Nos, Brand: Raccon, Adani, Gutam, TOPSUN	37
2	- 20 KW Grid -Tie inverter with remote monitoring- Brand: SOFAR/UTL	1
3	- AC DB AND DC DB WITH MCB, SPD AND FUSE - SUPPLY OF CPRI APPROVED DC EARTH& LIGHTNING ARRESTER, INSULATED CONDUCTOR, PLATE EARTHING, CHEMICAL EARTH PIT FILL, EARTH CHAMBER & ACCESSORIES	
4	- THREE PHASE NET METER. SINGLE PHASE ENERGY METER CT, MCB AND FUSE CARRIERS AND METER BOC - UV PROTECTED DC SOLAR CABLE AND OTHER ELECTRICALCABLES, HARDWARES, PVC CONDUIT, SUITABLE PANEL BOARD	1 Set
5	- ADDITIONAL STRUCTURE FOR INVERTER ACDB DCDB FIXING KENOPE WITH SHEET ROOF	1 NOS
6	- EARTH CHAMBERUSING CAST IRON WITH BRICK WORK 4 NOS	4 NOS
7	- COLUMN CONCRETE 400X400X300 M20 GRADE 30 NOS	30 NOS
8	- ELECTRICAL INSPECTORATE PAPER WORKS	



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SYSTEM COMPONENTS - TECHNICAL COMPLIANCE FOR SYSTEM COMPONENTS

S/N	System Component	Capacity/ rating	Minimum Technical Compliance
1.	Solar panel (MONO PERC Half cut of capacity 500 Wp or above)	As per the required capacity	IS 14286 - Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules IEC/IS 61730: Part I & II;
2.	Grid Tied Inverter (Min DC to AC ratio of 1.2 to be maintained at all sites)	As per the required capacity	IS 16221: Part 1 & 2 - Safety of Power Converters for use in Photovoltaic Power Systems IS 16169 - Test Procedure of Islanding Prevention Measures for Utility-Interconnected Photovoltaic Inverters
3.	Module Mounting Structure	As per the required capacity	IS 2062 - Hot Rolled Medium and High Tensile structural Steel IS 4759 - Hot-dip Zinc Coatings on structural steel and other products
4.	Cables	As required	IEC 60227 / IS 694 IEC 60502 / IS 1554 (Pt. I & II)
5.	Switches/ Circuit Breakers	As required	IEC 60947 part I, II, III / IS 60947 Part I, II, III
6.	Connectors		EN 50521
7.	Surge Protection Device		IEC 60364-5-53 / IS 15086-5
8.	Junction Boxes/Enclosures for Inverters/ Charge Controllers	As required	IP 54 (for outdoor) or IP 65 / IP 21(for indoor) as per IEC 529
9.	Energy Meter for Recording Solar Electricity Generated & Two-way meter for Distribution Licensee grid connection	As required	As per CEA Regulations; IEC 60687 / IEC 62052-11 / IEC 62053-22 / IS 14697
10.	Lightning Protection	As required	As per IEC 62305 / IEC 62561
11.	Electrical Grounding (Earthing)	As required	As per IS 3043




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 Managing Director (J/C)
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