वसई विरार शहर महानगरपालिका

जा.क.वविशम/म्.विद्युत/१८४/२०२५ दिमांक: -८० /०३ /२०२५

"कोटेशन नोटीस"

म्पूर्ण विरार सहर महानगरपालिकेच्या कार्यक्षेत्रातील खाली उल्लेख केल्याप्रमाणे काम करावयाचे अपुर सदर काम करण्यास इन्हुक ठेकेदार खांनी त्यांच्या लेटरपॅडवर खाली उल्लेख केलेल्या कामांच्या वावींचे दर (सर्व कर के सपुरी खन्मांसह) दि: ३८ /०३/२०२५ रोजी पर्यंत वसई विरार शहर महानगरपालिका, मुख्य कार्यालय, विरार (स.) सामेकडीच आवक सारिम्शीकडे सादर करावे.

- १) भुरतीयोत् प्राप्त, अभीवर भरलेले किंवा खाडाखोड केलेले कोटेशन स्विकारण्यात येणार नाहीत.
- ?) याकामी आत्रेत्या कोटेशनपैकी कोणतेली एक कोटेशन स्विकारण्याचा अथवा सर्व कोटेशन नाकारण्याचा अभिकार महानगरपात्रिकेने राखुन डेक्ला आहे.
- है। वेक्नेबाराचे दर सादर करताना सर्व कर, मजुर, वाहतुक व हमाली खर्चासह सादर करावेत.
- ४) स्पर पर हे अंदाजपत्रकात सामाविष्ठ करावयाचे असल्याने मंजुर पुरवठाधारकांस कोणतीही आगाऊ रक्षम पित्सी जाणार माही
- १ कामाचे वाव

- :- महानगरपालिका कार्यक्षेत्रातील विविध मुख्य चौक, उद्यान व तलाव इ. ठिकाणी सोलार ट्री (Solar Tree) बसविणे.
- २ कोरे कोटेशन फॉर्भ भिळण्याचा :- दि. २७ /७३ /२०२५ रोजी ते दि.२८/०३/२०२५ रोजी कालावधी
- कोटेशन स्विकारण्याची तारीख व क्रेळ :- दि. २८/०३/२०२५ रोजी दु.३:०० वाजे पर्यंत
- ४ कोटेशन उम्रहण्याची तारीख व वेळ :- वि. २८ /०३ /२०२५ रोजी साय.४:०० वाजे पर्यंत

सांबत :- कोटेशन फॉर्भ जोडले आहे.

(अर्मील जायव) प्र.कार्यकारी अभियंता (विद्युत) वसई विरार शहर महानगरपालिका

NAME OF WORK: -

Installation of solar tress at various locations like Main Chowk, gardens and near ponds etc. within the jurisdiction of the municipal corporation.

QUOTATION FORM

	A DESCRIPTION OF THE PROPERTY		,		Rates
Sr. No.	Material	Quantity	Unit	In figure	In words
1	Solar Tree: - Capacity 5 kW Specification as per given below	1	Nos.		

Technical Specification: -

	Specification	Details
Section Solar Tree System	Solar PV Modules	Minimum capacity of 280 Watts per panel
	MS Solar Tree Structure with FRP solar mounting structure	Designed for stability in wind velocities up to 200 km/h
	Hybrid Inverter	Minimum capacity of 5 KW
	Distribution Boxes	Separate AC and DC distribution boxes for safety and efficiency
46.86	LED Lighting	Decorative 20W LED lighting strips aro the center for aesthetic purposes
	Portable Design	Modular structure allowing for easy transport and installation
	Material	Metal steel, pre-galvanized for durabilit
Structural Specifications	Height	7 meters
	Width	3.5 meters
	Capacity	Up to 5000- 5600 Watts per tree

Foundation	Foundation	M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template duly plastered
	Total number of solar panel heads	Minimum 19
. III	LED heads	Minimum 19
x* 1	Installed power for each LED head	Approximately 20W
Electrical Specifications	Solar panel voltage (open circuit)	About 32V
and the second of the second o	Peak power for each panel	About 280W
and the second of the second o	Maximum luminous flux for each head	650-850 Lm
N .	Optimum Operating Voltage	31.6 V
	Optimum Operating Current	9.09 A
	Open Circuit Voltage	38.32 V
Maximum Power at STC	Short Circuit Voltage	9.65 A
Maximum ower at ore	Module Efficiency	15.47%
	Maximum System Voltage	1000 VDC
	Maximum Series Fuse Rating	32 A
	Module Type	Mono-crystalline modules as per IEC 61215 or IEC 61646 standards
	Efficiency	Equal to or greater than 16% under STC
	Safety Standards	Must qualify IEC 61730 Part I and II
	RFID Tag	Capability to provide RFID tags for modules
PV Аггау	The state of the s	Material Warranty: Minimum of five year for defects due to manufacturing or material quality
	Warranties	Performance Warranty: Electrical degradation not exceeding 20% over 2 years, and not more than 10% after te years
	IP Rating	IP65
	Voltage Source	Microprocessor assisted, output regulat
Inverter	Output Voltage	415VAC / 230V AC (+20%, - 20% V AC) site specific
	Frequency	50 Hz (+3 Hz, -3 Hz)

		111人子的基础图像
	Continuous Rating	KV (rated +10%) with Import/Export net metering
	Total Harmonic Distortion	Less than 3%
	Operating Temperature Range	0 to 60 deg C 95% non-condensing
	Humidity	t is a suitable switch
	Housing Cabinet	cabinet, IP20 (Minimum) for interest, (Minimum) for outdoor
	PCU Efficiency	98% and above at full load > 0.9
- 4,	Power Factor	7 0.0

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1.	Mains (Grid) Over-Under Voltage and	Protection against voltage and frequency fluctuations
	Frequency Protection Overload Capacity	200% of continuous rating for 10 seconds
	Self-Commutated PCU	Utilizes a circuit topology and components suitable for high conversion efficiency and reliability
	Maximum Power Point Tracking	Ensures maximum possible power is obtained from the PV module
	(MPPT) Grid Islanding Protection	Full proof protection to disconnect grid
	Compliance with Standards	Complies with IEC/Equivalent BIS standards for efficiency measurements and environmental tests
Other Important Features/Protections of PCU	Environmental Testing for MPPT Units	Qualified as per IEC 60068- 2(1, 2, 14, 30)/Equivalent BIS STD
, 0212	Junction Boxes/Enclosures	IP 65 (for outdoor)/IP 54 (indoor) as per IEC 529 specifications
	Tested from Approved Test Centers	PCUs/Inverters should be tested from MNRE approved test centers/NABL/BIS/IEC accredited laboratories
	Parallel Operation Capability	Capable of operating in parallel with the grid utility service
- · ·	Withstand Unbalanced Output Load	Up to 50%
	Shutdown/Standby Mode Conditions	For insufficient solar power output, utility-grid over or under voltage, and utility-grid over or under frequency

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	Electromagnetic Interference (EMI)	PCU shall not produce EMI causing malfunction of nearby electronic and electrical instruments
Other Important	Communication and Remote Monitoring	Modbus protocol with LAN/WAN options and SCADA package
Features/Protections of PCU	Inverter with MPPT	Suitable for connecting to 415V, 3 phase AC LT voltage grid/230V, 1 Phase AC LT Voltage Grid
	Internal Cooling Arrangements	Includes exhaust fan and ducting for operation in non- AC environments

प्रमॉल जाघव) प्र. कार्यकारी अभियंता (विद्युत) वसई विरार शहर महानगरपालिका