MUMBAI HOUSING AND AREA DEVELOPMENT BOARD

A REGIONAL UNIT OF

(MAHARASHTRA HOUNSING AND AREA DEVELOPMENT AUTHORITY)

Tel no.- 022-66405220, E-mail eelect.mhada@gmail.com

Ref. No.- EE/Elect/M.B./Quotation/ /2024 Date-

Notice to Agency for rates only

Executive Engineer / Electrical Division / Mumbai Housing and Area Development Board, Room no.368, 2nd Floor, GrihnirmanBhavan, Kalanagar, Bandra (East), Mumbai-400051 is inviting the quotation **for obtaining rate of item only** from contractor / agencies having experience in carrying out similar type of work for BDD Naigaon schemeRehab buildings. Contractor / agency required to submit the Quotation rates with & without GST and duly signed with seal. Sealed quotation willbe received in the same office on or before 27/01/2021 up to 3:00 PM. and opened on the same date if possible for the work mentioned below—

	Name of work and Description of Item	Make and model details	Quanti ty with unit	Rate witho ut GST	GST Rate	Total Rate
1.	Planning, Designing, Supplying, Installation, Testing And Commissioning of Roof Top Solar Power Plant with net metering, having following componentsuch as solar string modules, inverters, structure, lighting arresters, net meters etc. The detailed technical specification of above system can be downloaded from MHADA website www.mhada.gov.in>> tenders		As per detailed specific ation			
2.	Planning, Designing, Supplying, Installation, Testing And Commissioning 750 KVA DIESEL GENERATING SET and related necessary accessories having specification as given at The detailed technical specification of above system can be downloaded from MHADA website www.mhada.gov.in>> tenders		As per detailed specific ation			
3.	Planning, Designing, Supplying, Installation, Testing And Commissioning of Ultra Filtration system, Ozonisation, Mechanical Screen and related necessary accessories for 900KLD STP having specification as given below and have 5 years warranty The detailed technical specification of above system can be downloaded from MHADA website www.mhada.gov.in>> tenders		As per detailed specific ation			

For any queries contact below officers:

Vinod Gaikwad, Dy. Engg, Electrical division :-

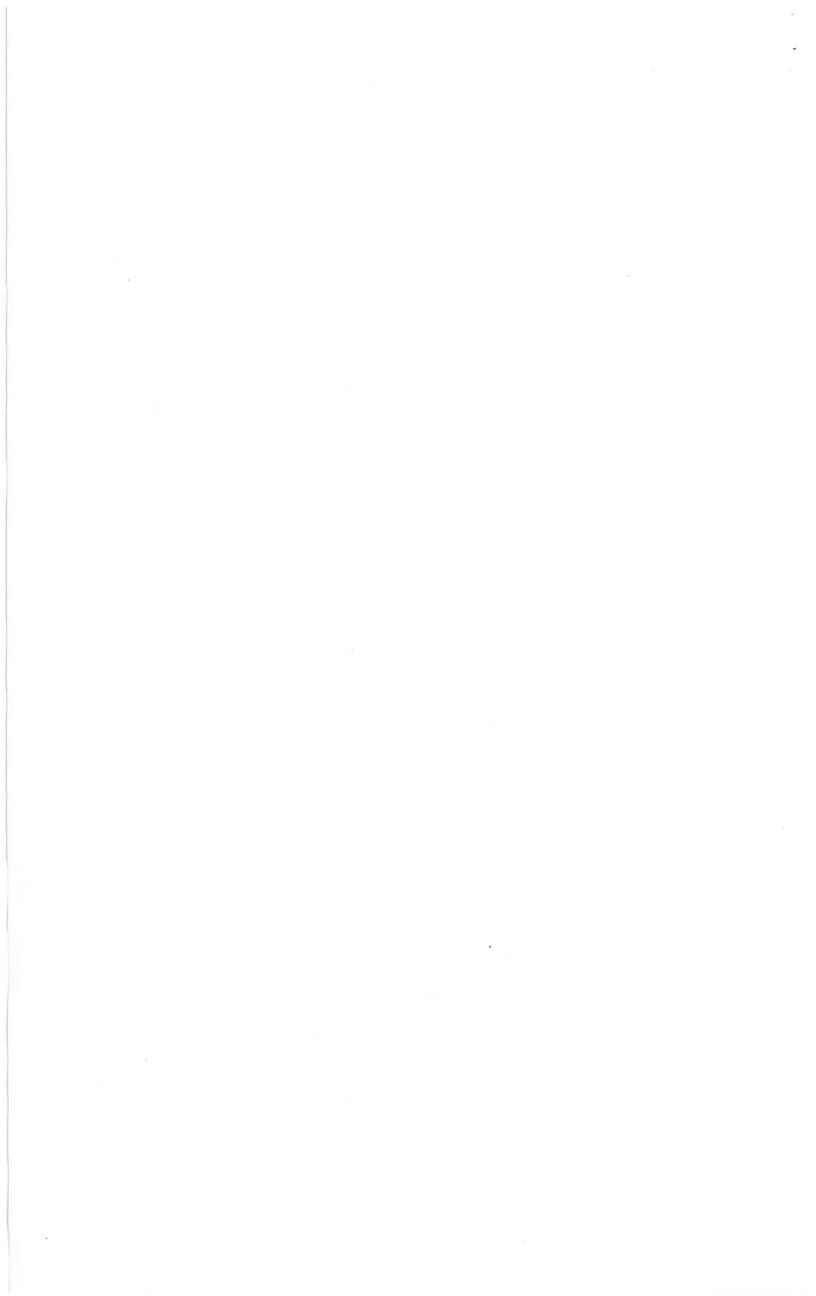
022-66405269

Detailed requirement, advertisement, terms and conditions can be downloaded from our website www.mhada.gov.in--> tenders

Terms and Conditions:-

- 1. Interested agencies shall contact above mentioned office for any clarification and collect the detailed expected sample estimation proforma from this office during working hours from 11 am to 3:00 pm in order to get standardized quotations.
- 2. Agency shall provide estimate for complete PDSITC job for all the items mentioned above. In this regards, agency shall visit the site located at BDD Naigaon scheme and meet the L&T CBL site engineer for providing accurate quotation based on plan
- 3. Agency has to quote the rate without GST &Withapplicable percentage GST for this work.
- 4. Agency has to submit the duly filled quotation along with required documents in sealed envelope accompanied with a forwarding letter.
- 5. Executive Engineer / Electrical Division / Mumbai Housing & Area Development Board reserves the right to accept or reject any or all quotation without assigning any reason.
- 6. The quotations are invited for obtaining rates of item for estimation purpose.

Executive Engineer, Electrical Division, Mumbai Board



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		Name of work and Description of Item	Qty	Unit	Rate without GST for one item	GST Rate	Total Rate
A		Planning, Designing, Supplying, Installation, Testing And Commissioning of Roof Top Solar Power Plant with net metering, having following component					
	1.	SPVModule :-Monocrystalline Modules of 540/580Wp and above, solar panel, Tier 1 rated, Monocrystalline Bifacial, PID resistant, Monocrystalline Modules, With Inbuilt Bypass Diode, Frame ismade of Aluminum Anodized With PowerTolerance + 5Wp , Product Warranty upto 10 Years and Performance Warranty Upto 25Year.Panels should be included in the Approved list of module manufacturers (ALMM). IEC 61215-1:2016, IEC 61215-1:2016, IEC 61730-1:2016, IEC 61730-2:2016, IEC 61701:2011, IEC 62716:2013, IEC TS 62804-1:2015, IEC 60068-2-68:1994, IEC 61853-12011, IEC 61853-2:2016, IEC61724:2017, IEC62941:2019.	each				
	2.	Module Mountingstructure (MMS):-Hot Dipped Galvanized for RCC roof or Aluminum type structure for GI metal Sheet Roof.	set				
-	3.	String Inverter: -30-60KW Grid-tied String Inverter, Three Phase,50 Hz Inverter output shall be at 400V, & 50 hzfrequency Efficiency-98% or above. 5 years warranty extendable upto 10 yrs, with stand MS Steel Frame for Foundation.	each				
	4.	Remote Monitoring system with capability to synchronize with cloud.	set				
		ACDB:-415V, 3 phase 4 wires, 50Hz, CRCA SheetSteel, 14/16 Gauge thickness, IP54, Aluminum busbar, Bottom cable entry, 63-125 Amp 4P MCCB TM BASED, Auxiliary 1 C/O + TAC 1 C/O, with SPD Type 2	set				
	6.	Lightening Arrestor:-Early Streamer Emission Lightning protection device with 107 meter radius. Must include Epoxy insulator, Stainless Steel guide wire and insulated strike counter.	set				
	7.	Net Meters, Generation Meters:- Regular/ABT Meters as per power supply company norms, 0.2 S Class ABT & Generation Meter, with appropriate CT and PT. CEIG and Net Metering Approval and power supply companyLiasioning for Meter installation on supplier's scope (No extra cost	set				

	will be provided).	
	8. DC Cable (Solar Module to Inverter):- 1C x 4 sqmm Cu flexible copper conductor solar DC cable of reputed make.	meter
	 AC Cable (Inverter to ACDB):- 1.1 kV,4C,25 Sqmm Copper flexible, XLPE, FRLSCABLE of reputed Make 	meter
	10. AC Cable (ACDB to LT Panel):- 1.1kV,3.5C, 70 sq mm Al, armoured, XLPE, FRLS CABLE	meter
-	11. Earthing Type:- chemical Earthing and earthing systems with all civil work.	each
	Additional conditions for roof top solar work Scope of work Includes:-(As per Requirement) 1) Civil foundation for DB's and Earth Pits with materials, Includes all civil work with complete fabrication. 2) Loading, Unloading, Shifting of material 3) Structure & panels installation 4) DC Cabling from solar panels to inverter. 5) AC Cabling UG/AG 6) AC cable laying up to panel room. 7) Inverter, ACDB, DG sync device installation. 8) Earthing 9) Cable trenching, cable laying. 10) Complete Installation, testing & commissioning. 11) With all Miscellaneous. 5 years comprehensive Warranty should be issued by the OEM for the complete system, and not just individual components. And 25 years performance warranty for solar panel	
В	Planning, Designing, Supplying, Installation, Testing And Commissioning 750 KVA DIESEL GENERATING SET and related necessary accessories having specificationas given below	each

TECHNICAL SPECIFICATION OF DIESEL GENERATING SET

DIESEL ENGINE

The standard Design consists of Direct injection, turbo-charged, four stroke liquid cooled technology confirming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows:

KVA / kW	Compliance	BHP @ 1500 RPM	NO. OF CYLINDERS
750 / 600	CPCB4 or any recent standard whichever is stringent	900.6	12

The engine shall be complete with the following standard accessories:

- > Dry type air cleaner
- > Exhaust silencer
- > Expansion bellows
- > Lube oil cooler
- > Lube oil filter
- > Fuel filter
- > Radiator, radiator fan and mounting
- > Fuel pump
- > Fly wheel with starter ring
- > Battery charging alternator
- ➤ 24 Volt electric starter motor
- > Electronic Governor
- > ENGINE MONITORING SYSTEM -
 - a state-of-the-art engine &genset monitoring and safety system, having following features:

- Control panel consisting of built in On / Off / Start key.
- Battery charging voltmeter
- · Electronic Hour meter
- Indication & Monitoring of Oil Pressure & safety trip incase of Low Oil Pressure.
- Indication & Monitoring of Coolant Temperature & safety trip incase of High Coolant Temperature.
- In-built engine shut down system in case of Engine Overspeed.
- Indication & Monitoring of Fuel Level and alarm.
- Indication & Monitoring of Canopy Temperature and alarm / safety trip incase of High Canopy Temperature.
- Vibration Damper
- > Set of documents comprising spare parts book and operation & maintenance manual

ALTERNATOR

Alternator suitable rated at 0.8PF, 415V, 3 Phase, 4 Wires, 50 Cycles/Sec., 1500 RPM, self excited and self regulated, with Brushless Excitation Band of voltage regulation \pm 1% of rated voltage, from no load to full load, Insulation class "H". The alternator generally conforms to BS: 2613/IS: 4722.

BATTERY

2 Nos. 12 Volts Factory Pre-charged Lead Acid Battery with leads.

STANDARD CONTROL PANEL

Sheet steel made duly painted with stoving enamel paint consists of followings:

- 1 No. MCCB of suitable rating
- 1 No. EMS
- 1 No. KWh meter
- 3 Nos. Current Transformer
- 2 Nos. Indicating Lamps
- 1 Set Control Fuses

FEATURES OF ENGINE MONITORING SYSTEM -

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display
- LED indications for genset status and alarms
- Event logging history (stores last 100 events) for ease of maintenance/service & preventive maintenance annunciation.
- Canopy temperature monitoring
- Individual touch buttons for Manual, Test & Auto modes.
- Battery condition monitoring
- Statistical cumulative counters like No. of starts, Engine run Hrs & kWh
- In-built AMF module

Salient features of Controller

MECHANICAL SAFETIES	ELECTRICAL SAFETIES
(along with metering)	(along with metering)
Under / Over Speed	Genset Under / Over Voltage
Low Lub Oil Pressure	Under / Over Frequency
High Coolant Temperature	Phase failure
Low coolant level	Phase sequence reverse
Low Fuel level (alarm)	Over current
Start / Stop Fail	Over kW
High Canopy	Battery Under / Over
Temperature	Voltage
Charging alternator failure	Mains Monitoring

Genset metering parameters	Engine metering parameters			
Phase / Line Voltage	Oil Pressure Coolant			
Line Current	Temperature			
Frequency Average Voltage	Fuel Status Engine Speed			
Average Current Phase kW & Total kW	Canopy Temperature Engine Run Hours			
kWH& PF kVA / kVAr	Total Starts Battery condition			

Specification of canopy

Construction of Acoustic Enclosure

Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.

Surface Treatment-Painting

The enclosure surface is pretreated with 11 tank process and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven

Base Frame

The Base frame is rugged in construction and designed for mounting engine and KG alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer based powder / Epoxy paint.

Fuel Tank

Fuel tank is fabricated out of 3mm MS HR sheet integrated with base frame (Detachable) and is fitted with inlet and outlet connections.

Noise suppressor (Silencer)

Residential type Silencer is provided to suppress exhaust noise from the engine to meet CPCB IV+ norms.

Emergency Push Stop Button:

The canopy has the provision of emergency push button, external to the canopy.

Performance Parameters

- ❖ DG with canopy are manufactured as per (ISO 3744 OR 8528 PT 10) to meet CPCB IV+ norms of average 75 DBA under green field conditions @ 1 meter distance from all four sides.
- The average stabilized hot air temperature rise with in the canopy is maintained within 10° C over and above ambient temperature.

Features of canopies

- Fabrication of canopies are on CNC-operated AMADA Turret Punch Press AC255NT for a repeat dimensional accuracy of \pm 0.1mm
- All sheet metal are processed further on AMAD Press Brake RG100 for accurate bending
- All fabricated parts are pre-treated under 11 tanks process and powder coated on automatic powdercoating plant for the longevity of the color & finish.

С	Planning, Designing, Supplying, Installation, Testing An	id set
	Commissioning of 750KV ADG SYNCHRONISING	G
	PANEL	
	TEOLINA DC 12	

750KVADG-1,2

1250A,3Pole,50KAEDOTypeMPBasedO/C,S/C,E/F, Releases with415VU/VCoil,24VDCS/TCoil, NeutralContactor,225A,3Pole,AC-3,CoilVoltge-230V, AC,Aux Contact-2NO+2NC, Control MCB-6A,4Pole,10KA,C-Curve, Control MCB-10A,3Pole,10KA,C-Curve

•							
	Control MCB-6A,2Pole,10KA,C-Curve, AuxContactor,24 AuxContactor,24VDC,4NO+4NC, AuxContactor,240VA control, A/MSel Switch,4Pole,2Way&Off,10A Control On/Off Switch,2Pole On/Off,10A, 3Phase Amme Volmeter With Inbuilt S/S,CL-1 Load Manager With RS-485, Cl-1, CT's1250/5A,Cl.1,10V Indication Lamp	C,2NO+2	NC, TI	NC Switch S/S,CL-1,	3Phase		
	B Phase Indication Lamp, ACB ON/Off/Trip Indication Lamp, NeutralContactorON/OFFIndicationLamp,						
	DCON,DGRunning,B/COn, Auto/Manual Mode Selection Push Button					•	
	Emergency Stop Push Button-Mush room Head, Annunci Accept,ResetPB's Digital Fault Hooter,24VDC	ator-8Wi	ndow,2	24VDCwitl	ıInbuiltTe	est,	
	Synchronizing Relay Line Voltage Monitoring Relay, 6A. AuxContactor,240VAC,2NO+2NC	4PMCB	forLVM	1&BusVol	tagetoRel	ay,	
	BatteryChargerEquipmentsBatteryCharger-230VAC/24 BatteryDCVoltmeter,Cl-1,0-50VDC Outgoing 2500A 3Pole 50VAMDOTyreAMPRocedO/C 6					-	
	Outgoing- 2500A,3Pole,50KAMDOTypeMPBasedO/C,S Indication Lamp 6ADP MCB for Control AluminiumBusbars- 3200ATPNMainAluminiumBusbar breaker AluminiumBusbar Fabrication +Powder Coating- 2400mm(W)X2200mm(H) Mechincal Hardware &Labels Wire for Control Ckt.	1600Ab	reaker <i>A</i>	Aluminium	Busbar 32	р 200А	
D	Planning, Designing, Supplying, Installation, Testing And Commissioning of AUTOMATIC MAINS FAILURE (AMF) CONTROL PANEL (DOUBLE ACB) having following specifications	set				, 4	
	AUTOMATIC MAINS FAILURE (AMF) CONTROL PANEL (DO	OUBLE AC	B) for	ahove 750	KVA DG	having	
	necessary ratings	JODEL AC	<i>D</i> , 101	above 750	KVA DG	Having	
	The Control Panel will be free standing, floor mounting, cubic	al type, fr	ont ope	rated dust	and vermi	n proof.	
	fabricated out of 14/16 SWG MS CRCA Sheet duly POWDER C	COATED at	ter nec	essary pre-t	reatment	process	
	& consisting of following:						
	Power Circuit						
	Mains						
	1 No. 3P electrically operated fixed Type ACB ,1 No. Neutra	l Contacto	or				
	DG						
	1 No. 3P electrically operated fixed Type ACB ,1 No. Neutra	Il Contacto	or				
	Control & Metering Circuit						
	1 No. Microprocessor based AMF logic controller.1 No. Line	Voltage N	Vionitor	L&T make.			
	1 Set of Control Fuses, 1 No. Static Battery charger circuit v						
	Battery charger "ON" indicationReverse Polarity indication	1 No. I	DC batt	ery chargii	ng ammet	ter	
Е	Planning, Designing, Supplying, Installation, Testing And	Commis	-i i	. CIII. T			
_	Ozonisation, Mechanical Screen and related necessary acc	Commis	sioning	OI UITTA F	iitration s	ystem,	
	specification as given belowand have 5 years warranty	essuries	101 900	KLD SIP N	aving		
1	Planning, Designing, Supplying, Installation, Testing	set					
	And Commissioning of Mechanical screen for 900	Set					
	KLD STP having following specifications and have 5						
	years warranty						
	Inlet flow 40-50 m ³ /h						
	Peak Factor 1.5						
	Design flow 60-70 m ³ /h						
	Type Rotating Drum Mechanical Screen						
	Clear Spacing 2 mm spacing mm						
	Drum Construction Perforated Type Top Casing,		*				
	Bottom Casing, Drum, Perforated Sheet, Fastener SS						
	304 Brush PP + SS 304						
	Drum Speed App. 24 rpm						
	Inlet Flange 150 mm						
	Outlet Flange150 mm						
	Overflow Flange 65 mm						
	Backwash Flowrate 2.5 m ³ /h						
	Flange Plate Flange-10mm THK, drilled as per ANSI						

Motor 0.75 KW of reputed approved make Motor Specification IF2/415VAC - 50Hz reputed approved make Planning, Designing, Supplying, Installation, Testing And Commissioning of UF System for 900 KLD STP having following specifications and have 5 years warranty Type Pressurized UF Skid Mounted Inlet Feed 40-50 m²/h Membrane Dupont/ Equivalent Membrace Dupont/ Equivalent Membrace MoC- PVDF Skid MOC-MSEP Membrace Area -75-80 m² Membrace Area -75-80 m² Membrane – Integra Tee XP 77 10 UF Feed Pump 40-50 m³/h Capacity 30 m or above Head (1 W + 1 SB) Quantity CI MOC Reputed Make UF Backwash Pump Capacity 30 m or above Head (1 W + 1 SB) Quantity CI MOC Reputed Make UF Backwash Pump Capacity 30 m or above Head (1 W + 1 SB) Quantity CI MOC Reputed Make Pneumatic Motorized Valves 4 Nos.Quantity CI MOC 80 mm Size reputed Make CIP Pump Capacity 15 m³/h and above Head30 m and above Head30 m and above Quantity(1 W + 1 SB) Nos. MOC SS 316 Reputed Make Dosing System Hypo Dosing System Hypo Dosing System O-200 lph Capacity Acid Dosing System O-100 lph Capacity PP/FR MOC E Dose/Milton Roy Male Compessor 3 HP Power Frank, 1 W No.Quantity ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No. Rotameter 1No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System sarrantyCapacity 40-		B16.5-FF				_
Motor Specification IEZ/415VAC - 50Hz reputed approved make Planning, Designing, Supplying, Installation, Testing And Commissioning of UF System for 900 KLD STP having following specifications and have 5 years warranty Type Pressurized UF Skid Mounted Inlet Feed 40-50 m³/h Membrane - Duport Equivalent Membrace MoC - PVDF Skid MOC - MSEP Membrane - IntegraTee XY 77 TiG UF Feed Pump 40-50 m³/h Capacity 30 m or above Head (1 W + 1 SB) Quantity CI MOC Reputed Make UF Backwash Pump Capacity 60-70 m³/h Capacity 30 m or above Head (1 W + 1 SB)Quantity CI MOC Reputed Make Pneumatic Motorized Valves 4 Nos.Quantity CI MOC Reputed Make Pneumatic Motorized Valves 4 Nos.Quantity CI MOC 80 mm Size reputed Make CIP Pump Capacity 15 m³/h and above Head30 m and above Quantity(1 W + 1 SB) Nos. MOC SS 316 Reputed Make Dosing System 0-200 lph Capacity Acid Dosing System 0-100 lph Capacity Caustic Dosing System 0-100 lph Capacity PP/FR MOC E Dose/Milton Roy Make Compessor 3 HP Power Frank, 1 W No.Quantity ABB/Slemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1No.Pressure Trasmitter Accessories Plping with UF area, cabling within UF area, earthing, PLC programming Control Panel-PLC SEAMAK make MCC Panel +PLC customized for UF System Sidd of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warranntyCapacity 40-						
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Acid Dosing System - 0-100 lph Capacity Caustic Dosing System - 0-100 lph Capacity PP/FRP MOC E Dose/Milton Roy Make Compessor 3 HP Power Frank , 1 W No.Quantity ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System Skid of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warrantyCapacity 40-		Hypo Dosing System -				
0-100 lph Capacity Caustic Dosing System - 0-100 lph Capacity PP/FRP MOC E Dose/Milton Roy Make Compessor 3 HP Power Frank , 1 W No.Quantity ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System Skid of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warrantyCapacity 40-		0-200 lph Capacity				
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E Dose/Milton Roy Make Compessor 3 HP Power Frank, 1 W No.Quantity ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System Skid of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warrantyCapacity 40-						
Compessor 3 HP Power Frank, 1 W No.Quantity ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System Skid of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warranty Capacity 40-						
Frank, 1 W No.Quantity ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1 No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System Skid of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warrantyCapacity 40-						
ABB/Siemens PLC with 7" HMI Screen additional Instrument 2 No.Rotameter 1No.Pressure Trasmitter Accessories Piping with UF area, cabling within UF area, earthing, PLC programming Control Panel+PLC SEAMAK make MCC Panel +PLC customized for UF System Skid of reputed make 3 Supplying, Installation, Testing And Commissioning of Ozonator for 900 KLD STP having following specifications and have 5 years warrantyCapacity 40-		_				
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Ozonator for 900 KLD STP having following specifications and have 5 years warrantyCapacity 40-	2		ast			_
specifications and have 5 years warrantyCapacity 40-	3		set			
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Ozone Concentration 90 to 100 gm/m3		Ozone Concentration 90 to 100 gm/m3				

	Feed Gas Oxygen			
	Feed Gas Purity 85-90%			
	Cabinet Enclosure IP 55			
	Ventox Oxygen Concentration			
	Quantity 3 No.			
	Capacity 10 LPM			
	Circulation Pump			
	Type Submersible			
	MOC SS 304			
	Power 1 HP			
	Reputed Make			
	Reputed Make			
4	Supplying, Installation, Testing And Commissioning of	set		
	Online Monitoring System for 900 KLD STP having			
	following specifications and have 5 years warranty			
	Online Monitoring System.			
	Type Online Continous monitering			
	Parameters pH, BOD, COD and TSS			
	COD (0-5000 ppm), BOD (0-5000 ppm), TSS (0-5000			
	ppm), * Range can be easily customized as per			
	requirement			
	Power230 VAC			
	Measuring Principle UV-Spectroscopy			
	(Multi Spectrum – 254 nm)			
	Sensor Cleaning Automatic Cleaning with Wiper			
	Connectivity to MPCB/CPCB 4 Parameters with 1			
	year data recording			
	Measuring Range			
	pH0-14			
	BOD0-300 mg/L			
	BOD0-1000 mg/L			
	TSS0-500 mg/L			
	Solution calibration (calibration solution inserted in			
	ampule) via zero solution, span solution (single touch			
	calibration)			
	Analog outputs: 3 outputs (standard) Type: Up to 3 can			
	be chosen from UV absorbance, VIS absorbance, UV-			
	VIS absorbance, Converted COD & BOD level, and			
	Converted TSS level outputs Specification: DC 4-20			
	mA, or DC 0-16 mA, isolated output (no installation			
	between each channel), maximum resistance load: 600Ω			
	Analog and status output - No. of outputs: 6 outputs			
	(standard) Type: Up to 4 can be chosen from power			
	failure, maintenance (standard and fixed), batch alarm,			
	COD / BOD maximum limit alarm, TSS / TURB limit			
	alarm (standard), light source error, sample failure,			
	cleaning motor error, and analyzer error outputs Details:			
	Power failureoccurs when power fails Total			
	alarmcleaning motor error, light source error, analyzer			
	error Maintenanceoccurs when entering maintenance			
	or correction mode, or when the maintenance			
	or correction mode, or when the maintenance switch has			
	been turned on Specification: Dry contact output, NO			
	contact Contact rating: AC 125 V 0.3 A, DC 30V 1 A			
	(with resistance load) Each output has an independent			
	COM interface			
7	Reputed make, It should have 5 years waranty			
F	or any queries contact below officers:			

VinodGaikwad, Dy. Engg, Electrical division:-

9886562020/022-66405269

Detailed requirement, advertisement, terms and conditions can be downloaded from our website www.mhada.gov.in--> tenders

Terms and Conditions:-

- 7. Interested agencies shall contact above mentioned office for any clarification and collect the detailed expected sample estimation proforma from this office during working hours from 11 am to 3:00 pm in order to get standardized quotations.
- 8. Agency shall provide estimate for complete PDSITC job for all the items mentioned above. In this regards, agency shall visit the site located at BDD Naigaon scheme and meet the L&T CBL site engineer for providing accurate quotation based on plan
- 9. Agency has to quote the rate without GST &Withapplicable percentage GST for this work.
- 10. Agency has to submit the duly filled quotation along with required documents in sealed envelope accompanied with a forwarding letter.
- 11. Executive Engineer / Electrical Division / Mumbai Housing & Area Development Board reserves the right to accept or reject any or all quotation without assigning any reason.
- 12. The quotations are invited for obtaining rates of item for estimation purpose.

Executive Engineer, Electrical Division, Mumbai Board