

MUMBAI HOUSING AND AREA DEVELOPMENT BOARD

A REGIONAL UNIT OF

(MAHARASHTRA HOUSING 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, Grihnirman Bhavan, 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 approximately ~10000 units tenement max 2BHK flats to be installed for BDD worli scheme having 34 building of G+40 floor Rehab buildings. Contractor / agency required to submit the Quotation rates with & without GST and duly signed with seal. Sealed quotation will be received in the same office on or before 19/08/2024 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	Quantity with unit	Rate without GST	GST Rate	Total Rate
	Planning, Designing, Supplying, Installation, Testing And Commissioning of Centralized Pneumatic Waste Collection System (CPWCS) for approximately ~10000 units tenement max 2BHK flats to be installed for BDD worli scheme having 34 building of G+40 floor Rehab buildings. CPWCS should consists of Vertical or Horizontal Pipeline network, In-Building Station (IBS), Out-Building Stations (OBS), Transport pipe, associated valves and mounting hardware, Fans, Filtering System, Compressed Air System, Collection Equipment, Air Material Separators & Collectors, Diverters, Control Panel and Software etc. any other required equipment or system. It should have 12 years comprehensive AMC and O& M The detailed technical specification of above system can be downloaded from MHADA website www.mhada.gov.in ---->> tenders		As per detailed specification			

For any queries contact below officers:

Vinod Gaikwad, 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:-

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 Centralized Pneumatic Waste Collection System (PWCS) and 12 years comprehensive AMC and operation and maintenance . In this regards, agency shall visit the site located at BDD worli scheme and meet the TCC site engineer for providing accurate quotation based on plan
3. Agency has to quote the rate without GST & With GST with percentage of applicable GST for this work.
4. Agency has to submit the duly filled quotation along with required documents in sealed envelope.
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. The rates should be inclusive of contractors profits and all other overheads at site.



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
	Planning, Designing, Supplying, Installation, Testing And Commissioning of Centralized Pneumatic Waste Collection System (CPWCS) for approximately ~10000 units tenement max 2BHK flats to be installed for BDD worli scheme having 34 building of G+40 floor Rehab buildings. CPWCS should consists of Vertical or Horizontal Pipeline network, In-Building Station (IBS), Out-Building Stations (OBS), Transport pipe, associated valves and mounting hardware, Fans, Filtering System, Compressed Air System, Collection Equipment, Air Material Separators & Collectors, Diverters, Control Panel and Software etc. any other required equipment or system. It should have 12 years comprehensive AMC and O&M					
	Part A - CCA (Plant Room)					
1	Heavy Blower fan: Design, Supply, Installation, Testing and Commissioning of Centrifugal type pre-tested and electro dynamically balanced heavy duty, industrial fan with VFD control of approved make of 90 KW capacity or higher, conveying waste at speed of minimum 18m/s, mounted on a Heavy Steel frame work and with anti vibration system, vibration switch, suitable to operate on AC, three phase, 440 Volt 50 Hz to transport the waste at required air pressure, complete .	6	One SET			
2	Velocity Monitor (Pressure control unit): Design, Supply, Installing, Testing and Commissioning of Velocity Monitor unit fabricated from stainless steel 304 compatible with the full system including cutting, welding, fabricating, hoisting, erecting, fixing in position at specified places as per design, making riveted/bolted/ welded connections, gaskets or any other required necessary accessories complete	5	SET			
3	Collector with air separation unit for wet Waste: Design, Supply, Installation, Testing and Commissioning of sealed box/cyclone type air material separation unit of approved make with double door opening at the bottom operated by pneumatic cylinders or as per design of the OEM. The collector shall have a filter solution to prevent waste clogging and waste getting in to the fan system. The collector shall be made of SS steel 304 and of minimum 10 feet height or as per size available at site. Separating filters to be made of stainless steel 304, full unit complete	1	SET			
4	Container for wet waste: Design, Supply, Installation, Testing and Commissioning Steel SS304 fabricated container of 16 Cu mtr or as per OEM design or as per space availability whichever is higher. The container should be made of minimum 1.5mm Corrugated SS304 steel. Bottom and corners should have channel support of minimum 75x40mm for sturdiness. Dimensions will be as per space availability, complete .	4	Nos			

5	Collector with air separation unit for Dry Waste: Design, Supply, Installation, Testing and Commissioning of sealed box/cyclone type air material separation unit of approved make with double door opening at the bottom operated by pneumatic cylinders or as per design of the OEM. The collector shall have a filter solution to prevent waste clogging and waste getting into the fan system. The collector shall be made of steel frame and of minimum 10 feet height or as per size available at site. Separating filters to be made of stainless steel, full unit, complete .	1	SET			
6	Container for Dry waste: Design, Supply, Installation, Testing and Commissioning steel fabricated container of 16 Cu mtr or as per OEM design or as per space availability whichever is higher. The container should be made of minimum 1.5mm Corrugated steel sheet. Bottom and corners should have channel support of minimum 75x40mm for sturdiness. Dimensions will be as per space availability, complete .	4	Nos			
7	Filtration Unit: Design, Supply, Installation, Testing and Commissioning of filtration unit, fabricated with 2mm SS304 of grade 304. Filtration unit/ Exhaust air scrubber (wet/dry) should filter the air before discharge in the environment. The unit should separate the air by introduction of water mist (if wet scrubber) into the air stream which should then pass through a series in a cylindrical shape size to clean and slow down the exhaust air before discharging the air or Alternate Two stage air filtration unit on the downstream of the exhauster through a carbon & filter media to filtrate the particles and the other particle components passed through active carbon to remove odor with flow control or the unit should have two step dust filter to remove dust content enclosed in an air tight chamber or as per OEM design. The filter shall be with a GI holding frame with internal and external gasket, complete.	1	SET			
8	Horizontal diverter: Design, Supply, Installation, Testing and Commissioning of SS 304 grade, Sealed horizontal type Pipe diverter Valve with full assembly control box, gaskets including cutting, welding, fabricating, hoisting, erecting, fixing in position at specified places, making riveted/bolted/ welded connections, gaskets, pneumatic cylinder of suitable capacity located inside a closed steel cover unit for dry and wet waste segregation to be connected to the horizontal pipe located inside the CCA for diversion of dry and wet waste to the respective containers or to switch between fans of approved make complete with solenoid switch and pneumatic cylinders. The covering box of the valve should have a MOC of MS, complete	3	SET			
9	Complete Control system - Automation + PC+ peripherals + control software for centralized waste collection system: Design, Supply, Installation, Testing and Commissioning of the Software system to run the entire system through a computer system placed in the CCA including a Microporcess/CPU based PLC panel and all necessary accessories required for functioning and operation of the system. Latest hardware and minimum 24 inch screen to view should be there for the software. Control system, PLC and program system solution, complete.	1	SET			
10	Main Electrical control panel: Design, Supply, Installation, Testing and Commissioning of Main electrical control panel & sub control panels one for each riser) conforming to CPWD/DSR specifications with internal wiring & connection to various components of the full system with appropriate sizes of cables, conduit, cable tray, loop earthing, etc, , complete. (1 set for the CCS, & 1 set for the rest of the system).	2	SET			
11	Outblowing exhaust air pipe: Design, Supply, Installation Testing & Commissioning of SS grade 304 Outblowing air	30	MTR			

	pipe from the filtration unit of minimum dia 750mm with necessary fixing unit and accessories, complete .					
12	Air Compressor: Design, Supply, Installation Testing & Commissioning of compressor should be 4 kW 400 V, 50Hz, 3 phase for CCA room with air dryer for system power cylinders / temporary storages and diverter valves installation with 6-8 bar, Pressure gauge and pressure reducer, Electronic board and connections, Air receiver tank 500L, Refrigerated air dryer, Discharge valve for user safety, Automatic air purger at the end of the line, nylon/copper pipe for compressed air circuit for pneumatic elements feeding, sending stations, air valves, discharging hoppers, complete .	1	Nos			
	Total of Part A					
	Part B					
13	Vertical Sub Panel : This device should have NO/NC controls or as per OEM design for the control and signal of IBS, Vertical diverter, Air Valve, discharge valve and communicate with the main software control panel for relay of commands. It should be compact and placed at the bottom of each building/ riser. The cabinet should be made of Hot dipped galvanized and then Powder coated MS sheet of minimum 1.5mm thickness with proper dressing of wires as per CPWD/DSR standards, complete	34	SET			
14	Vertical Diverter: This device should consist of 2 fractions (dry and wet) in serial configuration. Size should be minimum 500mm dia for sorting of waste below the vertical chute with necessary flexible connection, inbuilt diverter valve made of SS 304, solenoid valve, pressure switch, hose connection, connection to the Sub panel, air filter regulator. The unit should be made up of SS 304 steel with sensors and control unit etc, complete .	34	SET			
15	Air Valves: Design, Supply, Installation, Testing and Commissioning of pneumatically operated Air valve of 500 mm dia fabricated from SS grade 304, with control box including cutting, welding, fabricating, hoisting, erecting, fixing in position at specified places, making riveted/ bolted/ welded connections, gaskets, pneumatic cylinder of suitable capacity, other required necessary accessories. It should be flap type or as per OEM design, complete .	34	SET			
16	Discharge Valve Pneumatic: Design, Supply, Installing, Testing and Commissioning of 500mm dia pneumatically operated Discharge valve fabricated from stainless steel 304 grade including cutting, welding, fabricating, hoisting, erecting, fixing in position at specified places, making riveted/bolted/ welded connections, gaskets, pneumatic cylinder of suitable capacity, any other required necessary accessories, Scope to include Storage Section with Level Sensors etc, complete	68	SET			
17	Vertical pipeline: It should of SS 304 grade of size 500 mm diameter and minimum thickness 2 mm, flanged pipe with accessories like bends, Tee, Sockets, sector design, y-branches, sealing joint, cabling including 16SWG wire and its conduit, Beldon Cable and its conduit, CAT6 Ethernet Cable and its conduit of required quantities & other components like nuts, bolts, etc required for installation of pipe and its network, Control cables (Type 8x2x0,5 or as per OEM standard) instrumentation from vertical system sub stations for inlet doors with necessary amplifying unit. Optical control lines /instrumentation from vertical devices to sub panel should be there. Telescopic brush cleaning and disinfection system, brush module wire rope, counter weight with controller should be there. Fire Sprinkler system, along with steel pressure pipes at each floor should be discharged at the bottom from where the civil contractor will connect to its fire	5600	MTR			

	fighting system etc, complete.					
18	Air Compressor: 4 kW 400 V, 50Hz, 3 phase for Risers with air dryer for system power cylinders / temporary storages and diverter valves installation with 6-8 bar, Pressure gauge and pressure reducer, Electronic board and connections, Air receiver tank 500L, Refrigerated air dryer, Discharge valve for user safety, Automatic air purger at the end of the line, nylon/copper pipe for compressed air circuit for pneumatic elements feeding, sending stations, air valves, discharging hoppers, complete (1 compressor for 1 building).	34	Nos			
19	In-Building Station (IBS): Design, Supply, Installation Testing & Commissioning of IBS with Button system for choosing type of waste. Buttons should be labeled in Hindi & Marathi & English and other as desired by the Engineer in charge. Outer door should be of size 400mm x 400mm. It should be double door design while the outer door should be accessible to user and inner door should be upper sliding door and interlocking with outer door and programmed to be opened for minimum 7 secs or as OEM suggestions. Both the doors and the throat between the doors should be made of SS grade 304. there should be Service door units on top of each loading station of minimum 600mm x 600mm opening for each IBS made of SS grade 304. The full IBS should be made of minimum 1.5mm SS sheet. Fixing unit for vertical pipeline into the concrete floor (one MS frame per floor), etc, complete .	1343	Nos			
	Total of Part B					
	Part C					
20	Horizontal pipeline: It should be of SS 304 grade of size 500 mm in diameter and minimum thickness 3mm, flanged/welded pipe with accessories like bends, Tee, Sockets, sector design, y-branches, sealing joint, cabling including 16SWG wire and its conduit, Beldon Cable and its conduit, CAT6 Ethernet Cable and its conduit of required quantites& other components like nuts, bolts, etc required for installation of pipe and its network, Control cables (Type 8x2x0,5), Optical control lines /instrumentation from vertical sub stations into main control panel of the main system control and Service door units for horizontal pipeline. There shuld be access points every 40-50 meters or at bends or at strategic locations as per OEM recommendations, etc, complete.	3250	MTR			
	Total of Part C					
	Part D					
21	Out Building Station (OBS) : Out Building Station should be made of SS304 or ABS or any other long lasting plastic for outside use. It should have 2 sets of collection bins, 1 for dry waste and 1 for wet waste. It should have a temporary waste holding unit of 500mm diameter connected to the horizontal pipe and the discharge valve. The OBS should be closed type with an opening of 400mmx400mm to load the waste.	25	Nos			
22	Discharge Valve Pneumatic: Design, Supply, Installing, Testing and Commissioning of 500mm dia pneumatically operated Discharge valve fabricated from stainless steel 304 grade including cutting, welding, fabricating, hoisting, erecting, fixing in position at specified places, making riveted/bolted/ welded connections, gaskets, pneumatic cylinder of suitable capacity, any other required necessary accessories, Scope to include Storage Section with Level Sensors etc, complete .	50	SET			
23	Vertical Sub Panel : This device should have NO/NC controls or as per OEM design for the control and signal of	25	SET			

	IBS, Vertical diverter, Air Valve, discharge valve and communicate with the main software control panel for relay of comands. It should be compact and placed at the bottom of each building/ riser. The cabinet should be made of Hot dipped galvanized sheet and Powder coated MS sheet of minimum 1.5mm thickness with proper dressing of wires as per CPWD standards, complete .					
	Total of Part D					
	Total of Part (A+B+C+D)					
E	Operation and Maintenance for 12 years	12	AMC per year			
F	Grand Total (Part E+ F)					

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- Agency shall provide estimate for complete PDSITC job for Centralized Pneumatic Waste Collection System (PWCS) and 12 years comprehensive AMC and operation and maintenance.In this regards, agency shall visit the site located at BDD worli scheme and meet the TCC site engineer for providing accurate quotation based on plan. You shall provide quote for per Unit Quantity.
- In case, Quoting agency finds that specifications are incomplete or insufficient, it may add those specification for completeness of the quote and specification. Also additional items also may be added if needed for centralized waste collection system.
- Agency has to quote the rate without GST & With GST with percentage of applicable GST for this work.
- Agency has to submit the duly filled quotation along with required documents in sealed envelope.
- Executive Engineer / Electrical Division / Mumbai Housing & Area Development Board reserves the right to accept or reject any or all quotation without assigning any reason.
- The quotations are invited for obtaining rates of item for estimation purpose. The rates should be inclusive of contractors profits and all other overheads at site.



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