



# Panvel Municipal Corporation

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## जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका क्षेत्रात सेक्टर नं. १९,२०,२१ करिता ६.५० द.ल.लि क्षमतेचे मलनिःसारण केंद्र उभारणे. या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहेत.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका क्षेत्रात सेक्टर नं. १९,२०,२१ करिता ६.५० द.ल.लि क्षमतेचे मलनिःसारण केंद्र उभारणे.	०७/०२/२०२४ ते १३/०२/२०२४ (७ दिवस)

### Specification

Sr.No.	Descriptions	Units	Qty
1	Sluice Gate Manual operated Aluminium Open Channel Gates a. Sluice Gate Frame & Thimble (if applicable) - Aluminium, Gate Door/ Plate - Aluminium, Contacting Faces - P type EPDM Guides Brackets - MS IS 2062, Stem and Extended Spindle - AISI : 410, Stem nut - AISI : 304, Head Stock/ Gear - CI IS 210 FG 260, Hand Wheel - MS IS 2062, Lift Nut - GM- LTB-2, Stem nut-AISI 304, Pedestal- MS IS 2062 gr B + Epoxy Coat, Hand wheel MS IS 2062 gr B, Foundation bolts & Nut - AISI : 304, including Actuators	Nos	1
	1500 (W) X 1500 (H) mm	Nos	1
	1500 (W) X 800 (H) mm	Nos	1
	1500 (W) X 1100 (H) mm	Nos	1
	1200 (W) X 1200 (H) mm	Nos	1
	2000 (W) X 1200 (H) mm	Nos	1
2	Mechanical Coarse Screen Multi-Rake bar Type SS Mechanical Coarse Screens with 20 mm bar spacing, 75 degree angle of inclination along with suitable motor drive mechanism, control panel with IP 68 protection, MOC SS-304, complete as per detailed specifications & as directed by Engineer. channel 1.5 m wide X 1.750 M Liquid depth & 9.250 m Channel depth	Nos	1
3	Belt Conveyor conveyer belt set of size 600 mm wide X 3500 mm long (Center to center distance), capable to collect the garbage and travel up to collection spot, with pull cord switch, cable etc complete	Nos	1
4	Non-Clog Sewage Submersible pumps Non-Clog Sewage Submersible pumps with three phase electrical motor of suitable designed rpm but not more than 1450 rpm, with auto coupling and guide pipe and suitable for solid handling min 100 mm, continuous duty with F class Insulation, suitable to operate required duty conditions & specified requirement etc. comp. as per detailed specification Discharge : 1771 M <sup>3</sup> /hr , Head : 24 Mtr, 235 HP	Nos	1

Pump Specification:

1 Liquid To be Lift = Sewage

	<p>2 Specific Gravity / PH/ Temp = 1.05/ 6 To 8/ Ambient</p> <p>3 Pump Casing = CF 8</p> <p>4 Impeller = CF-8M</p> <p>5 Shaft = AISI 410</p> <p>6 Cable gland = SS -304</p> <p>7 Motor body = CF 8</p> <p>8 Automatic coupling = SS -304</p> <p>9 Seal cover = SS -304</p> <p>10 Duck foot bend = SS -304</p> <p>11 Guide pipe = SS -304</p> <p>12 Lifting chain with Shackle = SS -304</p> <p>13 Solid Handling size in MM (Soft Solid) = 100 mm</p> <p>14 Efficiency = Minimum 70%</p> <p>15 Fastners = SS -304</p> <p>16 Mech. Seal = SiC vs SiC</p> <p>17 Protection = IP 68</p> <p>18 Insulation = Class F</p> <p>19 Pump Controller</p>		
5	Resilient Seated Knife Gate Valve Resilient Seated Knife Gate Valve, ZFI-S Series, Dia 1100 mm, Electrically Operated, Bonnet-less Design, Suitable for Uni-directional flow application.	Nos	1
6	Mechanical Fine Screen Screenmat" step Type Mechanical Fine Bar Screen. MOC: SS 304 Channel width: 1500 mm Channel depth: 1400 mm SWD: 900 mm Avg. Bar spacing: 6 mm Bar (lamella) Thickness: 2 mm Angle of inclination: 40 deg. to horizontal	Nos	1
7	Detritor Mechanism Detritor Mechanism i) Grit Collection (Grits collecting mechanism structural wetted parts in SS304 3 arm construction consisting of vertical shaft & Neoprene Squeegees) ii) Washing (Organic Return Pump with SS 304 Shaft and Impeller ) iii) Classification (400mm Dia Grits washing Screw Classifier mechanism with parts in contact with liquid is in SS316 construction ) As per detailed specifications grits classification mechanism and organic return pump	Nos	1
	<p>Specification</p> <p>Central Shaft SS 304</p> <p>Scraper Arm SS 304</p> <p>Scraper Blade SS 304</p> <p>Scraper Squeegees Neoprene Rubber / 10 mm</p> <p>Weir plate SS 304</p> <p>Classifier Mechanism (Wetted Parts) SS 304 (Screw - 4mm and Trough - 3mm)</p> <p>Feed Deflector and Sleeve SS 304</p> <p>Other Components of Classifier (Non-Wetted Parts)</p> <p>MS IS 2062 Gr A / B</p> <p>ORP Impeller SS 304</p> <p>ORP Shaft SS 304</p> <p>Clamps &amp; Hardware (Underwater) SS 304</p> <p>Foundation bolt and above water fasteners MS Galvanised</p>		
	<p>Motor Details for Main drive, classifier drive, ORP Drive</p> <p>Motor Rating Suitable HP</p> <p>Type TEFC</p> <p>Motor Speed 1500 rpm (Sync.)</p> <p>Voltage / Phase / Frequency 415 V+/- 10%/ 3P / 50 Hz +/- 5 %</p> <p>Motor Insulation Class F</p> <p>Protection IP 55</p> <p>Motor Make CGL / BBL / Equi</p> <p>Torque Protection-Overload Alarm &amp; Motor Tripping by Electro</p>		

8	<p>Mechanical Over load Assembly Gear box helical type Decanter Assembly and Air Diffusers for C-tech Basin Work Decanter Assembly and Air Diffusers for C-tech Basin Work)Mechanical Works 1)Decanter overhauling includes- i) SGT 300 Worm Shaft -8 no ii) SGT 300 Bearing, Seals &amp; O'ring -8 no iii) SGT 300 Rubber Bellow-8 no iv) SGT 300 GU-4-24-2-1-S-Spindle Tr 90 x 16-8 no v) SGT 300 guide ring – ANR 012145 -8 no vi) SGT 300 GU-4-24-2-1-S-square – incl. Dowel pin and head cap screw-8 No vii) SGT 300 GU-4-24-2-1-S-coupling hub R38 - dia 34-8 no viii) SGT 300 GU-4-24-2-1-S-coupling hub R38 - dia 35 -8 no ix) head 31051 KOPF-4 SGT300-6-10_26-8 no 2)Replacement of Decanter VFD with display-8 no 3)Replacement of Decanter motor-8no 4)Replacement of Decanter O'ring (main shaft male -female junction)-8no 5)Replacement of magnetic switch for each decanter (1 set includes 3 magnets &amp; magnet switches)-8no 6)Float switch for each decanter-8no 7)Pressure transmitter for each decanter-8no</p>	Job	1
	<p>8)Minipanel Diffuser -3168 no 9)Diffuser SS clamps-6336 no 10)Diffuser O'ring-3168 11)Diffuser wedges-3168 no 12)Diffuser purge assembly -8no 13)SS Coupling clamp for downcomer-8no 14)Simalube-8no B)Elctrical Works PLC Hardware's excluding Panel -1 no</p>		
9	<p>Return Activated Sludge Pump and Surplus Activated Sludge Pump RAS &amp; SAS pumps having solid handling 50 mm, Casing – CI IS 210 Gr. FG 220, Impeller – CF 8M , Shaft and Sleeve – SS 410, Motor Parts – CI IS 210 Gr. FG 220, Fasteners – SS316, Guide Pipe – SS 304, Lifting Chain – SS 304 with three phase squirrel cage motor 1450 rpm, suitable for continuous duty with F class Insulation, suitable to operate required duty conditions &amp; specified requirement having efficiency above 65% suitable for soft, non fibrous as below including cable set (20 mtr.), auto rail coupling, duck foot bend, lifting chain, PMU having all protections, bottom stand, clamps etc. with TPI &amp; Inspection</p>	Nos	1
	<p>a) Return Activated Sludge Pump Discharge : 470 M3/hr Head : 6 Mtr Motor rating : 15 HP</p>		
	<p>b) Surplus Activated Sludge Pump Discharge : 105 M3/hr Head : 11 Mtr Motor rating : 7.5 HP</p>	Nos	1
10	<p>DO Sensor &amp; Transmitter DO Sensor &amp; Transmitter for C tech Basin. Basic Model :- Oxymax COS61D Measuring Range :- Oxygen 0 to 20 mg/l Sensor Adaptions :- Crimp Sleeves Cable Length :- 10 m Transmitter liquid analysis Multiparameter + Multichannel applicable for process control, pH/ORP, conductivity, turbidity oxygen(DO), disinfection, SAC, nitrate, ammonia. Digital sensors; Memosens protocol, Navigator+softkeys, graphical display Plug&amp;play for sensors+modules, SD-slot data logger, alarm relay, IP66+IP67, NEMA Type 4X enclosure. Easy to use, simple to maintain: :: Use of precalibrated sensors :: Modular concept :: Extendable</p>	Nos	1

11	<p><b>Turbo Blower</b>  Turbo blower of discharge 7950Nm<sup>3</sup>/hr, differential pressure - 0.7kg/cm<sup>2</sup>, and motor shall be of High-speed Permanent Magnet Synchronous Motor (PMSM) includes Turbo blower with integrated PMSM motor  b. Variable Speed Drive and Inverter - Factory tuned for High Speed Motor  c. 24 Bit Color Touch Screen LCP  i. LCP has built in control and monitoring programs  ii. LCP monitors and displays inlet and discharge pressure, flow, temperature, motor speed, motor temperature, power consumption, filter pressure drop, and performance values  iii. LCP can be set to run in 6 different operation modes  d. Temperature sensors for the motor, air bearings, inlet air and discharge air  e. Blow off valve to blow off air during start-up  f. Blow off silencer to reduce the noise level of blow off air during start-up  g. Blower Enclosure/Sound Enclosure - Houses the Blower  h. Electrical enclosure - Houses inverter, PLC and electrical components  i. Terminal Block/Electrical Connections for remote control via Ethernet or Serial Cable  j. Internal Expansion Joint - Between the Blower Scroll and the Discharge Diffuser  k. Internal Vibration Isolation Pads  l. Built in Electric Line Reactor  m. Discharge Flange attached to Blower for plant connection  n. Built in Air Filters - One for Blower air and one for Inverter cooling air  r. Extra Air filters - 1 set per blower</p>	Nos	1
	<p><b>MOC:-</b>  Impeller :-high strength aluminum alloy (A7075) and 5 axis milling machine  Rotor Shaft :- EN-24 of BS-970  Casing :- Ductile Iron / SG Iron  Bearing :- Nickel alloy or stainless steel  Air Bearings shall be non-contact type, bump type foil air bearings with oil free lubrication, low noise and no vibration. The wearing surfaces shall be made of Inconel. The system shall include Controller shall have 16-bit color touch screen with convenient user interface to support various operation modes such as Auto Flow Mode, Auto power mode, complete as per detailed specifications &amp; as directed by Engineer.</p>		
12	<p><b>Centrifuge</b>  Centrifuge capacity of 20.0 m<sup>3</sup>/h (3W+1S) sludge with suspended solids concentration of 0.8 % w/w suspended solids.  - MOC of all wetted parts will be in SS 316 and casing/housing will be in SS 304  - Solid and Liquid Chutes in MSEP with 22 kW Centrifuge Motor  - VFD Module enclosed Control Panel</p>	Nos	1
13	<p><b>Agitator</b>  Agitator for polydosing tank having motor capacity 1.1 KW</p>		
14	<p><b>Polydosing Pump</b></p>	Nos	1
15	<p>polydosing pump with Pump model gb-403 with pp liquid head &amp; pvc fittings (max. Cap. 320 lph @ max. Inj. Press. 5 kg/cm<sup>2</sup>) 0.5 hp, 1440 rpm motor. Spm - 144 - with IE 2 std. Non-FLP motor, std ainting and MRI STD qap.</p>	Nos	1
16	<p><b>Air Blower for Sluge Tank</b></p>		
16	<p>Blower model 44 with the accessories having motor 5 HP/1500 RPM/IE 2</p>	Nos	1
	<p><b>Sludge feed Pump</b>  Sludge feed pump, with the accessories having motor 25m<sup>3</sup>/hr, Bare Shaft Pumps, Base Plate - STANDARD (Included Foundation Nuts &amp; Bolts ), V-Belt, Pulleys , Guard &amp; Motor- (3.70K/W /6 Poles /TEFC-NFLP- IE-2) etc with acuator complete.</p>	Nos	1

- १) सीलबंद निविदा दि. ०७/०२/२०२४ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या पाणी पुरवठा विभागात अथवा pmcwater2016@gmail.com या संकेतस्थळावर स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. १३ /०२/२०२४ रोजी दुपारी ३.३० (शक्यतो) वाजता पाणी पुरवठा विभागात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.

उपअभियंता  
पनवेल महानगरपालिका

- प्रत माहितीस्तव - १. प्रसिध्दीकरीता  
२. माहिती फलक करीता