

**पनवेल महानगरपालिका**  
**जाहीर निविदा दरपत्रक**

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती -अ, खारघर, सेक्टर-१३, भुखंड क्र.१३७ येथे सामाजिक सभागृह बांधणे. या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरिता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती -अ, खारघर, सेक्टर-१३, भुखंड क्र.१३७ येथे सामाजिक सभागृह बांधणे. या कामाचे अंदाजपत्रक बनविण्याकरीता दर मागविणे बाबत.	१९/०६/२०२६ ते २२/०६/२०२६ (३ दिवस)

**Specification**

Sr. No	DESCRIPTION	Quantity	Unit	Rate
1	Design, Supply and Execution of Mono Strand Un-Bonded PT Systemesign and Detailing of Post Tensioned Elements Supply of PT Material ,Transportation of PT Material to the Site,Supervision for Installation of PT system,Workers (Skilled & unskilled) shall be provided at free of cost for Installation of PT system by Client/Main Contractor,Stressing of PT Cables, Cutting of gripping length of PT Cable	14773	Sqm	
	PT BEAM1			
	1st Floor	15	Rmt	
	2nd Floor	19	Rmt	
	3rd Floor	19	Rmt	
	Terrace Floor	19	Rmt	
	PT BEAM2			
	1st Floor	15	Rmt	
	2nd Floor	19	Rmt	
	3rd Floor	19	Rmt	
	Terrace Floor	19	Rmt	
	PT SLAB			
	1st Floor	3983.97	Sft	
	2nd Floor	5098.47	Sft	
	3rd Floor	5098.47	Sft	
	Terrace Floor	5098.47	Sft	
2	Providing and laying about 10-15mm thick EPDM rubber flooring mat of size 20" x 20" or as approved, including perparing pre-prepared subbase, cleaning, comprising of base layer SBR crumb rubber and top layer EPDM colour granules with polyurethane binders, etc. as per approved manufacturers instruction, specifications, all complete at all leads and lifts to the entire satisfaction of the EIC/PM.(Location: Gymnasium)(Basic Rate Rs. 60/- per Sft)	60	Sqm	
3	Providing and fixing <b>Urinal partitions</b> made out of 19mm thick approved shade and sample pre-polished Engineered full body slab, partitions to be machine cut and machine polished (both sides) in one piece and edges polished and semi rounded, 450mm x 900mm size (exposed size) stone fixed in wall securely and grouted and finished in cement sand mortar 1:3 (1 cement : 3 sand) fixed to correct line and level including chasing in wall, curing, cleaning, exposed edge of stone rounded / chamfered and polished etc. all complete as shown in the drawing and to the satisfaction of the PM. (Basic Rate - 2750 per Sq.Mt.)	6	Sqm	

4	Providing and fixing decorative Charcoal Sheet cladding on a Plywood false ceiling / soffit, including necessary framework, as per the design and direction of the Architect / Engineer-in-Charge.	216	Sqm	
5	Providing and fixing premium leatherette (faux leather) wall panelling in approved design and pattern on walls/columns, as per architectural drawings and instructions of the Engineer-in-Charge. (Location : Multipurpose hall)	128	Sqm	
6	Providing and fixing premium UV-stabilized synthetic artificial grass of pile height 35 mm, 16,000 tufts/m <sup>2</sup> , including site preparation, geotextile underlay, UV-resistant jointing tape, PU adhesive, and silica sand infill, strictly as per the manufacturer's specifications. (Location : Terrace)	401	Sqm	
7	BANQUET TABLE As per Architecture Drawing & As Directed by Engineer in Charge.	24	Nos	
	(Location : Multipurpose Hall)			
8	BANQUET CHAIR As per Architecture Drawing & As Directed by Engineer in Charge.	144	Nos	
	(Location : Multipurpose Hall)			
9	DINING TABLE + CHAIR DIMENSION 900MM X 600MM As per Architecture Drawing & As Directed by Engineer in Charge.	15	Nos	
	(Location : Terrace)			
10	OFFICE DESK DIMENSION - 1500MM X 750MM As per Architecture Drawing & As Directed by Engineer in Charge.	2	Nos	
11	Panasonic Recess mounting COB downlight with IP20 protection made up of Aluminium housing with high transmittance reflector ,CCT 5700K High Operating voltage range of 140V- 270V, CRI>80 THD<10% having EMI/EMC compliant with Surge protection of 4KV esuring life class of 50000 burning hours @ L70B50, delivering 1425 lumens in 15W with efficacy of 95lm/W <b>PDLM52154</b>	210	No	
12	Panasonic Recess mounting Scanto Plus UGR<16 IP20, IK05, CCT 5700K, Class I 2x2 Panel with CRCA powder coating housing with PS Microprismatic	22	No	
13	Diffuser UGR <19 , High Operating voltage range of 140V-270V, CRI>80, PF>0.9, THD<10% with Surge protection of 3KV ensuring life class of 50000 burning hours @ L70B50, delivering 3900lumens in 36W with efficacy of 110lm/W, Eq to Panasonic PBLM22368			
14	Panasonic Suspended Linear 4ft Stand Alone	40	No	
15	light comprises of Aluminium Extrusion			
16	with PMMA sliding diffuser, PC end			
17	caps and clutch wire suspension kit for mounting arrangement. Operating at high voltage range of 140V to 270V with surge project of 4KV, CRI >80			
18	efficient Isolated electronic driver Linear Down Type 28W, 5700K with lumen efficacy of 110lm/watt , Model No. PLHM24288			
19	Track mounted spot light, operating in the voltage range from 140-270V with lumen output of 1120lm running at 15W with surge protection of 2kv and CRI >80	20	No	
20	Track 1mts length	20	No	
21	Panasonic Surface mounted IP20, IK02, CCT 5700K, Class-I batten fixture with Extruded Aluminium housing & PC Diffuser. High Operating voltage range of 140V- 270V, CRI>80, THD<15% with Surge protection of 4KV ensuring life class of 50000 burning hours @ L70B50, delivering 3400 lumens in 20W with efficacy of 130lm/W, ambient Temp. range 0 Degree to + 45 Degree C, Eq. to Panasonic PBTM26208	37	No	

22	Panasonic Surface mounted IP20, IK05 circular downlight with Aluminium housing with PC Diffuser and MS Clamp for Surface Mounting arrangement, High Operating voltage range of 140V- 270V, CRI>80 with Surge protection of 4 KV ensuring life class of 50000 burning hours @ 30% depreciation, delivering 1650 lumens in 15W with efficacy of 100lm/W available in 5700K, Eq to Panasonic PDLM58158	32	No	
23	Decorative chandelier as per architect confirmation	6	No	
24	Panasonic Bollard light luminaire comprises of galvanized extruded mild steel pipe housing with opal polycarbonate diffuser and aluminum mounting base ensuring life class of 50000 burning hours @ L70B50, 4KV Surge protection, IP65, IK05, PF>0.95, operating temp -10°C to +45°C delivering 990 lumens in 10W with efficacy of >90lm/W. Eq to Panasonic PBDM03108	20	No	
25	<b>LED Recessed Inground Burial</b> with surface adjustment beam angle - Made in stainless steel 316L, ADC12 die cast aluminium body, ultra white transparent white tempered glass, IP67 nickel and copper coated gland, with silicon seal and ABS plastic recessed sleeve with SM 3535 LED - 18W - 3000K - IP67 - IK09 - Beam Angle - 10 x 45 degrees - Diameter 173mm Height 156mm - Make - La Lumière Lighting	2	No	
26	<b>LED Recessed Inground Burial</b> with surface adjustment beam angle - Made in stainless steel 316L, ADC12 die cast aluminium body, ultra white transparent white tempered glass, IP67 nickel and copper coated gland, with silicon seal and ABS plastic recessed sleeve with SM 3535 LED - 18W - 3000K - IP67 - IK09 - Bea, Aangle - 10 degrees - Diameter 173mm Height 156mm Make - la Lumière Lighting	2	No	
27	<b>LED Recessed Inground Burial</b> with surface adjustment beam angle - Made in stainless steel 316L, ADC12 die cast aluminium body, ultra white transparent white tempered glass, IP67 nickel and copper coated gland, with silicon seal and ABS plastic recessed sleeve with SM 3535 LED - 12W - 3000K - IP67 - IK09 - Bea, Aangle - 10 degrees - Diameter 173mm Height 156mm - Make - La Lumière Lighting	14	No	
28	<b>LED Surface Linear Light</b> - Made in aluminium body, tempered glass in 36W LED - 3000K - IP66 - Length - 1000mm - Width - 40mm Height - 52.5mm - Make - La Lumière Lighting	39	No	
<b>MEPF</b>				

<b>C1</b>	<b>DG SET</b>			
<b>C2</b>	<b>MV SWITCHGEAR &amp; PANELS</b>			
36	Supplying and erecting <b>On-Off Push Button</b>	2	Each	
37	Supplying and erecting <b>35 Sq. mm Cu wire with lugs</b>	32	Mtr.	
38	Supplying and erecting <b>16 Sq. mm Cu wire with lugs</b>	32	Mtr.	
39	Supplying and erecting <b>6 Sq. mm Cu wire with lugs</b>	71	Mtr.	
40	Supplying and erecting <b>4 Sq. mm Cu wire with lugs</b>	22	Mtr.	
<b>C3</b>	<b>DISTRIBUTION BOARD</b>			
4	Supplying and erecting <b>single pole and neutral distribution board</b>	1	Each	
<b>C4</b>	<b>EARTHING &amp; LIGHTNING PROTECTION</b>			
<b>A</b>	<b>EARTHING</b>			
4	Supplying and erecting FRP <b>Earthing chamber 300X300</b> with 12.5 ton	16	Each	
<b>B</b>	<b>LIGHTNING PROTECTION SYSTEM</b>			

	<b><u>Air Terminal System</u></b>			
1	Supply of <b>8 mm Aluminum Round Conductor</b> complete as specified in	179	Mtr.	
2	Supply of <b>Roof conductor holder</b> for parapet- Polyamide Conductor	179	Nos	
3	Supply of 0.6 mtr vertical air terminal with mounting accessories on	8	Nos	
4	Connector: For T /cross and parallel connectors. Quick installation	5	Nos	
	<b><u>Down Conductor System</u></b>			
1	Supply of 8 mm Aluminum Round Conductor complete as specified in	190	Mtr.	
2	Providing of wall fixing cross bar clamp for conductor upto 16mm	190	Nos	
3	Supply of Test Joint suitable to connect 8mm round conductor and Cu	6	Nos	
	<b><u>Earthing System</u></b>			
1	Supply & Installation of 10 mm copper bonded Solid Steel Round	139	Mtr.	
2	Providing of Cross connector for conductor: Suitable for 10 mm	7	Nos	
3	Providing of Plastic Corrosion Protection strip: Approx 1.1 mm thick.	1	Nos	
4	Supply of UL Listed & CPRI Tested maintenance free ,Low carbon	4	Nos	
	Universal clamp made of SS to connect rod with Cu ROD			
	Earth conductivity enhancing compound shall be of 25 kg/pit tested as			
	The above arrangements shall be provided with Heavy duty earth			
5	SITC of Lightning Strike Counter	1	Nos	
<b>C5</b>	<b>LV CABLES &amp; TERMINATION WITH ENCLOSURE</b>			
	<b>CABLE ENCLOSURES</b>			
4	Providing and constructing <b>Brick Masonry Inspection Chamber 60cm</b>	5	Each	
5	Providing and constructing <b>Brick Masonry Inspection Chamber 75cm</b>	1	Each	
6	Providing and constructing <b>Brick Masonry Inspection Chamber 80cm</b>	2	Each	
7	Providing and constructing <b>Brick Masonry Inspection Chamber 90cm</b>	7	Each	
<b>C6</b>	<b>POINT WIRING / CIRCUIT MAINS</b>			
4	Secondary light & fan points controlled by one 10 A MCB & required all	80	Point	
6	6A/16A socket with one 16A switch <b>on switch board/at convenient</b>	51	Point	
<b>C7</b>	<b>CABLE TRAYS</b>			
<b>C8</b>	<b>LIGHT FIXTURES AND FAN</b>			
2	Panasonic Recess mounting COB downlight with IP20 protection	210	Each	
3	Panasonic Recess mounting Scanto Plus UGR<16 IP20, IK05, CCT	22	Each	
4	Panasonic Suspended Linear 4ft Stand Alone light comprises of	40	Each	
5	track mounted spot light, operating in the voltage range from 140-	20	Each	
6	Track 1mts length for above light	20	Each	
7	Panasonic Surface mounted IP20, IK02, CCT 5700K, Class-I batten	37	Each	
8	Panasonic Surface mounted IP20, IK05 circular downlight with	32	Each	
9	Decorative chandelier as per architect confirmation	6	Each	
10	Panasonic Bollard light luminaire comprises of galvanized extruded	20	Each	
	<b>FAÇADE LIGHTING</b>			
11	LED Recessed Inground Burial with surface adjustment beam angle -	2	Each	
12	LED Recessed Inground Burial with surface adjustment beam angle -	2	Each	
13	LED Recessed Inground Burial with surface adjustment beam angle -	14	Each	
14	LED Surface Linear Light - Made in aluminium body, tempered glass in	39	Mtr.	
<b>C9</b>	<b>SWITCH SOCKET &amp; CEILING FAN</b>			
<b>C10</b>	<b>CCTV SYSTEM</b>			

14	Server for CCTV	1	Each	
<b>C11</b>	<b>DATA &amp; VOICE SYSTEM</b>			
<b>C12</b>	<b>TV SYSTEM</b>			
<b>C13</b>	<b>PUMP HOUSE</b>			
<b>C14</b>	<b>HYDRANT SYSTEM</b>			
<b>C15</b>	<b>SPRINKLER SYSTEM</b>			
21	Supply, Installation, Testing & Commissioning of Sprinkler Test & Drain	4	Each	
22	Supplying & erecting of <b>Fire Hose Cabinet Shutter</b>	4	Each	
<b>C16</b>	<b>FA &amp; PA SYSTEM</b>			
13	Supplying, installing, testing and commissioning <b>6 Zone voice alarm</b>	1	Each	
<b>C17</b>	<b>RISER DRAINAGE</b>			
1	Providing & Fixing of <b>SWR Type B uPVC Pipe</b> ISI marked brand as per			
1.1	<b>75 mm dia</b>			
a)	Ground Floor	12	Mtr.	
b)	First Floor	12	Mtr.	
c)	Second Floor	14	Mtr.	
d)	Third Floor	14	Mtr.	
	Terrace Floor	7	Mtr.	
1.2	<b>110 mm dia</b>			
a)	Ground Floor	18	Mtr.	
b)	First Floor	53	Mtr.	
c)	Second Floor	42	Mtr.	
d)	Third Floor	42	Mtr.	
e)	Terrace	20	Mtr.	
1.3	<b>160 mm dia</b>			
a)	Ground Floor	12	Mtr.	
3	Providing and fixing in position UPVC ultraviolet stabilized 75mm	3	Each	
<b>C18</b>	<b>INTERNAL DRAINAGE</b>			
1	Providing & Fixing of <b>SWR type B uPVC Pipe</b> ISI marked brand as per IS			
1.1	<b>75 mm dia</b>			
a)	Ground Floor	2	Mtr.	
b)	First Floor	1	Mtr.	
c)	Second Floor	7	Mtr.	
d)	Third Floor	7	Mtr.	
1.2	<b>110 mm dia</b>			
a)	Ground Floor	3	Mtr.	
b)	First Floor	2	Mtr.	
c)	Second Floor	48	Mtr.	
d)	Third Floor	48	Mtr.	
2	Supply,Installation,testing and commissioning of <b>uPVC Class 3</b> as per			
a)	Ground Floor	2	Mtr.	
b)	First Floor	2	Mtr.	
c)	Second Floor	14	Mtr.	
d)	Third Floor	14	Mtr.	
<b>C19</b>	<b>EXTERNAL DRAINAGE</b>			

1	Providing, laying and fixing, jointing <b>Eco-drain 160mm SN8 Nu Drain</b>	73	Mtr.	
3	Providing and constructing Brick Masonry <b>Gully trap chamber of 30cm</b>	2	Each	
<b>C20</b>	<b>RAIN WATER DOWNTAKE</b>			
<b>C21</b>	<b>RAIN WATER - EXTERNAL</b>			
1	Providing, laying and fixing, jointing <b>Eco-drain 200mm SN8 Nu Drain</b>	40	Each	
2	Providing, laying and fixing, jointing <b>Eco-drain 250mm SN8 Nu Drain</b>	53	Each	
3	Providing and constructing <b>Brick Masonry Catch Basin 45cm x 45cm x</b>	10	Each	
<b>C22</b>	<b>SHAFT WATER SUPPLY</b>			
<b>C23</b>	<b>INTERNAL WATER SUPPLY</b>			
<b>C24</b>	<b>VALVES</b>			
1	Providing & Fixing of Cpvc ball Valve of below mentioned dia.			
a)	15 mm	4	Each	
b)	20 mm	4	Each	
c)	25 mm	4	Each	
d)	32 mm	4	Each	
e)	40 mm	2	Each	
f)	50 mm	10	Each	
<b>C25</b>	<b>SANITARY EQPTS &amp; FITTINGS</b>			
1	Providing and fixing <b>Sensor faucet</b> of approved make including	22	Each	
2	Providing and fixing <b>Under Counter Wash Hand Basin</b> of 581 mm x	22	Each	
3	Providing & Fixing of <b>S.S. grid drain</b> including all necessary fittings	22	Each	
4	Providing & Fixing of <b>S.S. bottle trap 350 mm long</b> including all	22	Each	
5	Providing & Fixing of C.P. brass <b>angle valve</b> ( 15mm nominal bore )	42	Each	
6	Providing & Fixing <b>Pneumatic Faeplate</b> Polished crome finish making	20	Each	
7	Providing and fixing white <b>enamel type wall-hung including with</b>	20	Each	
8	Providing & Fixing of <b>WC Connector Assembly</b> complete as	20	Each	
9	Providing & Fixing <b>full body integrated system of cistern</b> (Conceal	20	Each	
10	Providing & fixing of CP brass <b>health Faucet</b> with Min. 1.0 mtr long	20	Each	
11	Providing & fixing of Heavy class <b>S.S. Grating</b> or Equivalent with	32	Each	
12	Providing & fixing of <b>white vitreous china flat back or wall corner</b>	16	Each	
13	Providing & fixing of External Electricial Power operated concealed	16	Each	
<b>C26</b>	<b>PUMP HOUSE</b>			
<b>C27</b>	<b>SPLIT AC INSTALLATION</b>			
<b>C28</b>	<b>VRF SYSTEMS - INDOOR / OUTDOOR UNIT</b>			
<b>C29</b>	<b>VRF COPPER PIPING WORKS</b>			
<b>C30</b>	<b>INDEGENIOUS HVAC WORK</b>			
1	Supply, installation, testing and commissioning of <b>Drain pump</b> for Split	12	Each	
6	Supplying and erecting <b>MS Table Top Stand</b> for VRV ODU	6	Each	
7	Supply & Installtion of <b>GI Cowl with Bird screen</b> for VRV ODU & Fan	12	Each	
<b>C30</b>	<b>EXHAUST / FRESH AIR FAN</b>			
1	Supplying, erecting, testing & commissioning Exhaust air intake	2	Each	
2	Supplying, erecting, testing & commissioning Exhaust air intake	2	Each	
3	Supplying, erecting, testing & commissioning fresh air intake system,	1	Each	
4	Supplying, erecting, testing & commissioning fresh air intake system,	1	Each	
<b>C31</b>	<b>HVAC DUCTING &amp; INSULATION</b>			

1	Supplying and erecting <b>G.S.S. sheet metal</b> complete with all	498	Sq.m	
<b>C32</b>	<b>LIFT</b>			
	<b>GRAND TOTAL FOR MARKET RATE ITEMS</b>			
	<b>FACADE</b>			

	Maximum Design Wind Pressure unless specified (Kg / m <sup>2</sup> )		<b>1.3</b>	
	Proof Load at 1.5 Times of Design Wind Pressure (Kg / m <sup>2</sup> )		<b>1.95</b>	
<b>A FT- 01</b>	<b>Capped Curtain Wall Glazing</b>			
	Design, Fabrication, Supply, Installation, protection, cleaning & handover of Conventional capped curtain wall system designed to with stand the wind pressure of confirming to IS -875 part III. The profile system is based on capped curtain wall design and glass is held all around by mechanical pressure plate and cover cap with microwave cured EPDM gaskets in all four sides of glazing, with necessary brackets of Aluminium alloy of 6005 T5 / MS with HDG with three dimensional adjustment with serrations and serrated washers to arrest the wind load movement, Anchor, screws and fasteners with non staining weather sealant having color matching to RAL shade of aluminium framing and Aluminium flashing sealed all around parameter inside and outside to seal the gaps between curtain wall and the building structure all complete required to perform as per specification and drawing in conjunction with BOQ. All fasteners, nut bolt & screws should be of SS 316 grade. HDG M.S. Inserts as per structural requirements to be considered in the cost.			
	The system design shall be based on Open joint system & design shall include pressure equalization with minimum 2 barrier gaskets for improved weather performance, drainage at all transom levels, Transom shall be overlap with mullion to have proper drainage to mullion. The design to accommodate building movements, thermal expansions & the seismic movements as mentioned technical specifications. The system shall be designed considering surface temperatures of 80-90 deg Cel & temperature differential of 25 deg cel without creating excess stress in the system. All metal joints shall be provided with small joint sealant applied to ensure water tightness.			
	The system shall be designed of floor height units spanning between the floors with Dead load & wind load brackets with provision to accommodate movement at all floor levels and at every grid panels horizontally. The system shall be designed to accommodate DGU glass panel. System shall accommodate openable panel as per architectural requirement in the system as and when required. Each glass panel shall be supported for dead load at the bottom of glass with black anodised glass retainers two per panel.			
	The two barrier gasket system consists of 1st & 2nd gasket barrier of EPDM gaskets to achieve the required compression & seal in the system. EPDM Gaskets shall be of micro cured (Online Curing) with shore A hardness of 60-65.			
	Flashing / Trim / Floor Closure at Parapet level, floor level, beam bottom level and required flashings shall be provided continuously with required GI / EPDM membrane / Aluminium sheet. Internal & External concealed Flashings shall be 1.2 mm thk. with EPDM membrane sheet. External exposed flashing shall be 2 mm thk. Aluminium sheet with SDF coated matching with external Aluminium profiles. Internal exposed flashing shall be 2 mm thk. Aluminium sheet with SDF coated matching with internal aluminium profiles.			
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. The structural profiles shall have minimum 2.5 mm wall thickness. All the			

	internal & externally visible surfaces shall have high Durability (Akzonobel) / Super durable (Jotun) Powder coating of 60 - 80 micron confirming to AAMA 2604 (RAL color as per Architect's approval). The non visible aluminium surfaces shall have minimum chromatizing treatment. Wherever aluminium bracket welded need to be grind to finish and coating must be done after finishing.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant, mock-ups, sample submission, handling of all materials (loading, unloading, shifting, etc), scaffoldings, access equipment's etc. The quote rate shall include all duties, statutory obligations and safety code compliance as per industry standards.			
<b>a.1</b>	<b>Capped Curtain Wall System</b>			
a.1.1	G1 - Quote rate for complete system as mentioned above under (A)	16	m <sup>2</sup>	
a.1.2	G2 - Quote rate for complete system as mentioned above under (A)	61	m <sup>2</sup>	
a.1.3	G3 - Quote rate for complete system as mentioned above under (A)	132	m <sup>2</sup>	
a.1.4	G4 - Quote rate for complete system as mentioned above under (A)	22	m <sup>2</sup>	
a.1.5	G5 - Quote rate for complete system as mentioned above under (A)	40	m <sup>2</sup>	
<b>a.2</b>	<b>Vision Glass : Extra over a.1</b>			
	<b>Vision Glass (GLS 01) : 28 mm DGU Providing &amp; fixing the vision &amp; spandrel glass on the curtain wall panel</b>			
	6 mm thk. Low-E HS glass + 16 mm air gap with Black Anodized Spacer + 6 mm Clear FT glass (100% Heat soak tested). The glass properties & specification shall confirm to as mentioned in specification Annexure.	271	m <sup>2</sup>	
<b>a.3</b>	<b>Spandrel Shadow box Insulation at top : Extra over c.1</b>			
	Quote extra over on item (a.1) for providing and fixing the spandrel shadow box with stone mineral wool in nature and shall be of minimum of 75 mm thickness & min 128 kg/m <sup>3</sup> density. The stone wool insulation in the spandrel area must be installed with G.I. sheet (mill finish) of 1.2 mm thk on back side along with GI "L" shape stiffener for rigidity and 1.5 mm thk. Aluminium sheet shadow box on front side using welded pins(CD Welding Pins) & SS screws. Aluminium tray shall have finish of Super durable Powder coating of 60 - 80 micron confirming to AAMA 2604 (RAL colour as per Architect's approval).	120	m <sup>2</sup>	
<b>a.4</b>	<b>Fire Stop : Extra over a.1</b>			
	Quote extra over on item (a.1) Supply and fixing of a continuous tested perimeter barrier protection as an integral component of the exterior wall systems to prevent the passage of air leakage and flame propagation from one floor to another floor or from one compartment to another sideway, between two separate occupants or to separate public and non-public spaces vertically & horizontally. The continuous varying gap between the façade and the concrete slab edge is to be filled with the perimeter barrier compressed as per the manufacturers' recommendation achieving a minimum 120mins Integrity(F) of 120 min and Insulation(T) of 120 min, fire resistance period and equivalent to the rating of the floor slab when tested to ASTM E2307 and EN 1364-4 test standard and also to comply with IS 18190:2023. The thickness of the safig insulation shall be a minimum of 120 mm such as the Siderise CW-FS120 one-part system or approved equivalent wet fire stop system with all tested component(including insulation material). The safig insulation should be stone mineral wool in nature and shall be of a minimum of 75 kg/m <sup>3</sup> , pre-compressed at the factory requiring additional compression at site or as per the manufacturer's test data. The product shall have zero VOC content to maintain			

	environmental hygiene and toxicity. As curtain wall gaps are susceptible to component movement during seismic, wind load or temperature variation, the applied perimeter firestop shall be subjected to precycling movement to minimum of 500 cycles at 30 cycles per minute and follow the requirements within ASTM E 2307 OR EAD 350141-00-1106. Provide aluminium foil tape (Class O) to be applied at all adjacent butt joints, at the non-exposed side, on the perimeter joints with CW-FS120 to maintain a seamless connection.			
	The perimeter barrier should be installed using 1mm thick galvanised zinc-coated steel knife bracket spaced at around 600mm centres or as per the manufacturer's test data & shall be mechanically fixed to the floor slab. Use 1.2 mm thick mill finished GI floor closure flashing installed over perimeter barrier to avoid any impact load directly on top of the installed fire stops and also to apply intumescent sealant over GI sheet flashing joint (Dow or approved equivalent). Installed perimeter barrier shall be subjected to audit inspection which shall be certified and approved by the manufacturer. The contractor shall be responsible to provide approved inspection report from the manufacturer during the course of the project covering all floors & elevations. Inspection related log book shall be maintained, along with signing from responsible person from jobsite and to be submitted as part of post submittal. Single source of the system is preferred & supported by manufacturer's performance warranty. Approved make Siderise CWFS120, Hilti CFS-SP-SIL/3M. Installed perimeter barrier shall be subjected to audit inspection which shall be certified and approved by the manufacturer. The contractor shall be responsible to provide approved inspection report at the end of the project. Inspection related log book shall be maintained, along with signing from responsible person from jobsite and to be submitted as part of post submittal.	45	RMT	
<b>a.5</b>	<b>Automatic Sliding Door : Extra over a.1</b>			
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning & Handover of Automatic sliding door made out 13.52 mm thick Laminated tempered glass with DORMA ES 200 / GEZE operator with sensors on both side of sliding door shutters glass shall have sealing brush arrangement all around for sealing door with fix glass panels. The Operator shall have cover of SS in No 8 polish finish. The automatic door shall be capable of withstanding the ground floor wind pressure of 1.0 Kpa. The door shall remain open under power failure situation with safety need as per EN standard.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant. The quote rate shall include statutory obligations and safety code compliance as per client.			
	Automatic sliding door - 1.8 m (W) x 2.44 m (H)	1	Nos.	
<b>a.6</b>	<b>Openable Vents : Extra over a.1</b>			
	Quote extra over on item (a.1) for providing & fixing the Top Hung Open Out (operable) vent, accessories with heavy duty self balancing stainless steel friction hinges. Vent locking accessories with cremone lock and handle with multi point locking mechanism to keep the air & vent weather tight. The vent shall comprise of Aluminium outer frame with drainage provisions, crimped corner & shutter frame with Euro grooves with crimped corners. The outer frame fixed to the unitised profile system with necessary SS screws & weather sealant applied from outside. The stepped glass design vent shall not be accepted.			
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. The structural profiles shall have minimum mm wall thickness. The transoms shall be flush transom with mullion at all levels. All the internal & external visible surfaces shall have high Durability (Akzonobel) / Super durable (Jotun) Powder coating of 60 - 80 micron confirming to AAMA 2604. The non visible aluminium surfaces shall			

	have minimum chromating treatment. The grooves between glass to glass in the elevation shall be black in appearance.			
	Top Hung Operable vent system mentioned in a.6	10	Nos.	
<b>B FT- 02</b>	<b>GFRC Jali Cladding with Fins</b>			
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning & Handover of GRC Panel Cladding system of minimum 15mm thk to withstand the design wind pressure confirming to IS -875 part-III. The system should be of open joint hook on type, wherein the hook on brackets would be engaged on to M.S Tube framing which in turn is fixed to the building structure by M.S brackets and Hilti S.S 316 make post drilled anchors as per design. All M.S members to be HDG / PU painted as specified in the drawings. Flex anchors to be provided as per design requirements . The system should be designed to withstand the dead load and wind Load and design should be on the basis of rain screen principal. The entire system should need to perform as per specifications and drawings in conjunction with BOQ. Complete system to be warranted for 15 years and should have a design life of 50 years. GFRC finish & sealer as per architect's approval.			
	Design, Fabrication, Supply and install required structural steel frame work inline design drawings made out of MS pipe sections/ I Beams / Channels / Plates of approved make of first quality confirming to IS Standard. The steel design shall accommodate thermal stresses resulting from thermal expansion due to surface temperatures. The steel Structure shall have 100 micron HDG finish.			
	1. Finish exposed-face surfaces of GFRC as follows to match approved design reference sample and mock-ups. Panel faces shall be free of joint marks, grain, or other obvious defects. 2. As-Cast-Surface Finish: Provide free sand streaks, honeycombs, and air voids, with uniform colour and texture. 3. The GRC finish shall be sealed using a suitable sealant application to prevent water penetration and mould growth.			
	The design shall accommodate the building movements, thermal expansion and seismic movements. Also shall accommodate thermal expansion resulting from temperature differential of 45 deg on GRC without creating any additional stress.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant, mock-ups, sample submission, handling of all materials (loading, unloading, shifting, etc), scaffoldings, access equipment's etc. The quote rate shall include all duties, statutory obligations and safety code compliance as per industry standards.			
<b>b.1</b>	<b>GFRC Jali Cladding</b>			
	Quote rate for complete system as mentioned above under B including GRC Jali	525	m <sup>2</sup>	
<b>b.2</b>	<b>GFRC Fins (100x100 mm)</b>			
	Quote rate for complete system as mentioned above under B including GRC Fins	1,425	Rmt	
<b>b.3</b>	<b>Steel Structure Work : Extra over above b.1</b>			
	Supply of steel structure having 100 micron Hot dip galvanizing finish.	10,500	Kg	
<b>C FT- 03 Opti on-01</b>	<b>Terracotta Cladding</b>			
	Design, Fabrication, Supply, Installation, Protection, Cleaning & Handover of Terracotta clay tile cladding (curved shape as per tender			

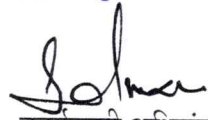
	intent drawings) with open joint system custom designed to withstand the design wind pressure confirming to IS-875 part III. The tiles shall be rigid and of adequate strength and shall have a total thickness of minimum 30 mm ( $\pm 10\%$ ). The clay tile fixed to a supporting aluminium sub- framework. Special aluminium hook bracket to be inserted in top and bottom grooves provided on the tile back faces at both ends and then the tiles to be mounted on the C clamp using the aluminium hooks such that the tiles are supported at top and bottom at both ends. Levelling bots to be availed at top row of hooks to align and levelled the surface.The vertical gap between adjacent tiles horizontally shall be 6 mm. All complete required to perform as per specifications and drawings in conjunction with BOQ. All fastener should be of SS 316 grade.All nut bolt & screrws should be of SS 316 grade.			
	The main back up grid work shall comprise of aluminium extruded hat channel sections taking support from the steel frame structure anchored to steel bracket with SS316 anchor bolts. Terracotta panels are fixed with aluminium hooks, clamps attached to framing members as per shop drawings. The system shall accommodate the replacement possibility of damaged tile without disturbing any other panels.			
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. The structural profiles shall have minimum 2 mm wall thickness. All the internal visible surfaces shall have high Durability / Super durable (Akzobel / Jotun) Powder coating of 60 - 80 micron confirming to AAMA 2604 (RAL color as per Architect's approval) with minimum 25 years warranty. The non visible aluminium surfaces shall have minimum Anodize (12-15 $\mu\text{m}$ ) coating.			
	Design, Fabrication, Supply and install required structural steel frame work inline design drawings made out of MS pipe sections/ I Beams / Channels / Plates of approved make of first quality confirming to IS Standard. The steel design shall accommodate thermal stresses resulting from thermal expansion due to surface temperatures. The steel Structure shall have 100 micron HDG finish.			
	The design shall accommodate the building movements, thermal expansion and seismic movements. Also shall accommodate thermal expansion resulting from temperature differential of 45 deg on GRC without creating any additional stress.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant, mock-ups, sample submission, handling of all materials (loading, unloading, shifting, etc), scaffoldings, access equipment's etc. The quote rate shall include all duties, statutory obligations and safety code compliance as per industry standards.			
<b>c.1</b>	<b>Terracotta Cladding system</b>			
	Quote rate for complete system as mentioned above under (I) for System @ ground floor for 1 kPa wind load	1,425	<b>m<sup>2</sup></b>	
<b>c.2</b>	<b>Supply of Terracotta Panel : Extra over c.1</b>			
	Water Absorption:4% < Average E $\leq$ 6%;Single E $\leq$ 6.5% Modulus of ruptur: $\geq$ 18Mpa Breaking strength: $\geq$ 6500N Bending Strength:Average $\geq$ 28 Mpa;Single $\geq$ 23 Mpa Resistance to Thermal Shock for Glaze Material:no cracks or cracking observed in 10 cycles Frost Resistance:no cracks or spalling observed in 100 cycles Chemical Resistance:no less than ULA level Resistance to Stains:no less than 5 level Radionuclides:A Decorative Material;IRa $\leq$ 1.0, I $\gamma$ $\leq$ 1.3 Modulus of elasticity: $\geq$ 20 GPa Poisson's ratio: $\geq$ 0.13			

	Wet expansion ratio: $\leq 0.06\%$ Coefficient of linear thermal expansion: $\leq 6 \times 10^{-6}/^{\circ}\text{C}$			
	Quote rate for supply of 30 mm thk. Terracotta panel as approved by architect	1,425	m <sup>2</sup>	
<b>b.3</b>	<b>Steel Structure Work : Extra over above b.1</b>			
	Supply of steel structure having 100 micron Hot dip galvanizing finish.	28,500	Kg	
<b>C FT- 03 Opti on-02</b>	<b>Dry Granite Cladding</b>			
	Design, Fabrication, Supply, Installation, Protection, Cleaning & Handover of Dry Stone cladding system using approved colour Granite not less than 30 mm thick and size custom designed to withstand the design wind pressure confirming to IS-875 part III. The system shall be designed to accommodate Granite panel of 30 mm thickness and size as per drawings fixed on aluminium bracket using Aluminium angle & profile with HILTI or Fischer under cut anchors, anchor fasteners of approved make and fasteners as per structural requirement, nylon separators to prevent bi-metallic contacts, non staining weather sealants, aluminium trims and flashings to seal the gaps between curtain wall and the building structure, all complete required to perform as per specifications and drawings in conjunction with BOQ.			
	The granite shall be treated with resign based sealer so that water absorption can be reduce and it also helps in reduction of formation of moss and dust deposition. Vertical & Horizontal groove shall be filled by non staining high performance weather sealant.			
	Scope of work shall include for groove cutting, chamfering, edge polishing, fabrication, anchor fasteners, scaffolding to the required heights, wastages, work at all levels and heights, cleaning the surface, protection of the tile from any damage till handed over to the Employer.			
	The system shall accommodate the replacement possibility of damaged Granite without changing any other panels. The extruded aluminium sections of Alloy 6060 T5 and tolerances confirming to EN standard from approved extruder. All the aluminium grid work members shall have minimum chromotize finish.			
	Design, Fabrication, Supply and install required structural steel frame work inline design drawings made out of MS pipe sections/ I Beams / Channels / Plates of approved make of first quality confirming to IS Standard. The steel design shall accommodate thermal stresses resulting from thermal expansion due to surface temperatures. The steel Structure shall have 100 micron HDG finish.			
	The design shall accommodate the building movements, thermal expansion and seismic movements. Also shall accommodate thermal expansion resulting from temperature differential of 45 deg on GRC without creating any additional stress.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant, mock-ups, sample submission, handling of all materials (loading, unloading, shifting, etc), scaffoldings, access equipment's etc. The quote rate shall include all duties, statutory obligations and safety code compliance as per industry standards.			
<b>c.1</b>	<b>Dry Granite Cladding system</b>			
	Quote rate for complete system as mentioned above under (C) for System	QRO	m <sup>2</sup>	
<b>c.2</b>	<b>30 mm thk. Granite Panel: extra over c.1</b>			
	Quote rate for supply of 30 mm thk. Granite panel (Leather/Plain/Polish) as approved by architect	QRO	m <sup>2</sup>	

c.3	<b>Steel Structure Work : Extra over above c.1</b>			
	Supply of steel structure having 100 micron Hot dip galvanizing finish.	QRO	<b>Kg</b>	
<b>D FT- 04</b>	<b>Aluminium Casement Windows</b>			
	Design, Procure, Production, Supply, Installation, Protection, Cleaning & Handover of Aluminium casement fixed windows custom designed to withstand the design wind pressure (The system must pass the proof test at 1.5 times design wind pressure without any failure). The system shall have two barrier gasket system for weather sealing. The profile system shall be Structurally safe. The entire periphery shall be sealed by application of approved Non staining weather silicon sealant between the window and masonry from both outside and inside to make the windows water tight.			
	EPDM Gaskets shall be cut to required length in loose condition to have tight joints at corners. Wherever necessary the joints of gaskets shall be vulcanized sealed with neutral colour silicon sealant. Micro wave cured gaskets of approved make with 15 years of guaranty for any visible defect i.e. cracking / brittleness. Gaskets shall be inserted between frames, glazing beads and glass, from inside and out side around the periphery of the glass to make the windows / doors air and water tight.			
	All fabricated glazing's shall be supplied and installed at site with good quality self adhesive non staining protection film / tapes to provide safety against external scratches at site. The protection film shall be removed only at the time of handing over or as per instruction of Site-in-charge.			
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. All the external & internal visible surfaces shall have high Durability Super durable Powder coating (Jotun/ AkzoNobel) of 60 - 80 micron confirming to AAMA 2604. The non visible aluminium surfaces shall have minimum chromotizing treatment.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant, mock-ups, sample submission, handling of all materials (loading, unloading, shifting, etc), scaffoldings, access equipment's etc. The quote rate shall include all duties, statutory obligations and safety code compliance as per industry standards.			
<b>d.1</b>	<b>Quote rate for complete system as mentioned above as per K for Fixed window</b>			
d.1.1	W3 Fixed window (0.9 mtr x 2.6 mtr)	36.00	<b>m<sup>2</sup></b>	
d.1.2	W4 Fixed window (1.5 mtr x 2.75 mtr)	44.00	<b>m<sup>2</sup></b>	
<b>d.2</b>	<b>Vision Glass : Extra over d.1</b>			
	<b>Vision Glass (GLS 02) : 13.52 mm Laminated glass Providing &amp; fixing the vision glass on the window panel</b>			
	6 mm Clear H.S. glass+1.52 mm PVB Lamination+6 mm thk. Clear H.S. glass .	80	<b>m<sup>2</sup></b>	
<b>E FT- 05</b>	<b>ACP Cladding</b>			
	Design, Fabrication, Supply, installation, protection, cleaning & handover of 4 mm thk. B1 grade Aluminium composite panel cladding of approved make in solid or metallic colours as per architect's approval using grid work of prefabricated aluminium extruded sections to with stand the design wind pressure confirming to IS -875 part III. The fastening brackets of Aluminium alloy 6061 T5 / MS with HDG with serrations and serrated washers to arrest the wind load movement, fasteners and anchor bolts of approved make in SS 304, Nylon			

	separators to prevent bi-metallic contacts, all complete required to perform as per specification and drawing in conjunction with BOQ.			
	The 4mm thk ACP consists of 0.5mm outer skin of Aluminium with Lumiflon based fluorocarbon paint or kynar 500 based PVDF paint confirming to AAMA 2605 + 3 mm Fire rated 70% mineral filled core B1Class + 0.5 mm aluminium skin with service coat. The panel shall be designed for 8 -10 mm groove in horizontal & 8 to 10 mm groove in verticals with close joint system. Vertical & Horizontal groove shall be filled by non staining high performance weather sealant. ACP panel shall have subframe all around panel , L Angle 12x1mm at corner joints of panel back folds as per tender intent drawings and aluminium stiffener profile as per structural requirements.			
	Prefabricated grid mullions are fixed on to the RCC structure as recommended by approved supplier to support given design loads. The brackets shall have provision movement to accommodate the construction tolerances with +25mm plumb in case of RCC structure and + 20mm plumb in case of steel structure. Use of Hot Dipped galvanised brackets with serrations and serrated washers on to RCC structures. The design shall accommodate the building movements, thermal expansion and seismic movements.			
	Copping panel shall have stiffeners fixed continuously from below to support the live load of 1KN. Also copping needs to be provided with 1.5 mm Aluminium strip of 30mm over groove having SDF coating of color matching to sheet fixed with sealant bedding. For copping primary seal of 1 mm GI sheet & minimum 1.2 mm thk. EPDM membrane need to use.			
	The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. The non visible aluminium surfaces shall have minimum chromating treatment.			
	The quote rate shall include all design, engineering & shop drawing approval from architect & consultant, mock-ups, sample submission, handling of all materials (loading, unloading, shifting, etc), scaffoldings, access equipment's etc. The quote rate shall include all duties, statutory obligations and safety code compliance as per industry standards.			
e.1	<b>ACP Cladding System</b>			
	Quote rate for complete system as mentioned above under (G) for Soffit Cladding @ 2nd floor	300	Sqm	
e.2	<b>4 mm thk. B1 FR grade Aluminium Composite Panel</b>			
	Supply of 4 mm thk. B1 grade Aluminium composite panel of approved make in solid or metallic colours as per architect's approval	300	Sqm	
e.3	<b>Steel Structure Work : Extra over above h.1</b>			
	Supply of steel structure having 100 micron Hot dip galvanizing finish.	6,000	Kg	
	<b>TOTAL AMOUNT</b>			

वर नमूद सुचित दर्शविलेल्या बाबींचे पुरवठा करणारे पुरवठादार/दुकानदार/उत्पादक/विक्रेते यांनी नमूद केलेल्या बाबींकरीता असलेले दर स्वतःच्या लेटरहेडवर महापालिकेच्या कार्यालयात अथवा ई-मेल द्वारे pmcbandhkamdept01@gmail.com /panvelcorporation@gmail.com यावर दिनांक २२/०६/२०२६ पर्यंत पाठवावे ही विनंती, सदर दर हे अंदाजपत्रक तयार करणेसाठी गृहित धरणेत येणार आहेत.

  
कार्यकारी अभियंता  
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/४६२५ /प्र.क्र. ०१/१७६२/२०२६,  
दि. १८/०६/२०२६

प्रत माहितीस्तव — १. माहिती फलक करीता