

पनवेल महानगरपालिका

जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर -१६, नवीन पनवेल (प) या भूखंडावर पनवेल महानगरपालिकेचे 'स्वराज्य' मुख्यालय इमारतीचे बांधकाम काम करणे. (टप्पा १, सुधारित) या कामाचे अंदाजपत्रक बनविण्याकरीता दर मागविणे बाबत.

या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर -१६, नवीन पनवेल (प) या भूखंडावर पनवेल महानगरपालिकेचे 'स्वराज्य' मुख्यालय इमारतीचे बांधकाम काम करणे. (टप्पा १, सुधारित) या कामाचे अंदाजपत्रक बनविण्याकरीता दर मागविणे बाबत.	१२/०९/२०२६ ते २१/०९/२०२६ (१० दिवस)

Specification

Item No	Item Description	Quantity	Units	Rate
1.0	Dome			
1.1	MS - Primary Structure with PU paint - Part A pipe	1,301.12	Sq Mt	
	Designing, Providing, Fabricating, Assembling, Hoisting, Erecting and Testing in position including detailing of Primary Structure made up of M.S plates / M.S. section {conforming to relevant IS standards (Grade YST 250 min)} in profile as per approved drawings. Fabrication of structural elements shall be done using CNC cutting, SAW/MMAW/MIG welding process, including preparation of shop drawings & get it approved, transportation, cutting, threading, machining, all leads and lifts up to all heights, tools and plants and necessary scaffolding etc. required for all operations. as per approved drawings. Standard fabrication, cutting, and welding The steel design shall accommodate thermal stresses resulting from thermal expansion due to surface temperatures. The steel structure shall be finish with the following, i. Surface Preparation – Blast cleaned to Sa 2.5 confirming to BS EN ISO 8501-1 to remove rust, paint, corrosion, and other surface contaminants from metal and thoroughly cleaning the surface before application of primer ii. Primer : Zinc Rich Epoxy 75 micron iii. Barrier : Epoxy Mio 125 micron iv. Finish : Polyurethane – 50 Micron (Only for exposed steel)			

1.2	MS - Primary Structure with PU paint - Part B end connector for pipe	1,301.12	Sq Mt	
	Designing, Providing, Fabricating, Assembling, and detailing of Primary Specalised end connections for primary pipe members in profile as per approved drawings conforming to relevant IS standards. Specially machined pipe end connection designed and manufactured to precisely meet the surface of machined junction for accurate assembly with required bolting hardware. Standard fabrication, cutting, and welding.			
1.3	MS - Secondary Structure with Pu paint - Part A pipe	1,301.12	Sq Mt	
	Designing, Providing, Fabricating, Assembling, Hoisting, Erecting and Testing in position including detailing of Secondary Structure made up of M.S plates / M.S. section {conforming to relevent IS standards (Grade YST 250 min)} in profile as per approved drawings. Fabrication of structural elements shall be done using CNC cutting, SAW/MMAW/MIG welding process, including preparation of shop drawings & get it approved, transportation, cutting, threading, machining, all leads and lifts up to all heights, tools and plants and necessary scaffolding etc. required for all operations. as per approved drawings. Standard fabrication, cutting, and welding.			
	The steel design shall accommodate thermal stresses resulting from thermal expansion due to surface temperatures. The steel structure shall be finish with the following, i. Surface Preparation – Blast cleaned to Sa 2.5 confirming to BS EN ISO 8501-1 to remove rust, paint, corrosion, and other surface contaminants from metal and thoroughly cleaning the surface before application of primer ii. Primer : Zinc Rich Epoxy 75 micron iii. Barrier : Epoxy Mio 125 micron iv. Finish : Polyurethane – 50 Micron (Only for exposed steel)			
1.4	MS - Secondary Structure with PU paint - Part B end connector for pipe	1,301.12	Sq Mt	
	Designing, Providing, Fabricating, Assembling, and detailing of secondary Specalised end connections for secondary pipe members in profile as per approved drawings conforming to relevant IS standards. Specially machined pipe end connection designed and manufactured to precisely meet the surface of machined junction for accurate assembly with required bolting hardware Standard fabrication, cutting, and welding.			

1.5	Primary Specalised Junctions	220.00	Nos.	
	Designing, Providing, Fabricating, Assembling, Hoisting and Erecting in position including detailing of Primary Specalised Junctions. Junctions shall be made up of Solid rod / pipes of approved makes. Junction shall be CNC machined to required micron accuracy, including preparation of shop drawings, transportation, all leads and lifts up to all heights, tools and plants and necessary scaffolding etc. required for all operations. Including all hardware as per specifications. It will be Pre-engineered CKD condition with bolted design. No welding allowed at site. Includes Design/Coding + Heavy CNC milling			
1.6	Secondary Specalised Junctions	420.00	Nos.	
	Designing, Providing, Fabricating, Assembling, Hoisting and Erecting in position including detailing of Primary Specalised Junctions. Junctions shall be made up of Solid rod / pipes of approved makes. Junction shall be CNC machined to required micron accuracy, including preparation of shop drawings, transportation, all leads and lifts up to all heights, tools and plants and necessary scaffolding etc. required for all operations. Including all hardware as per specifications. It will be Pre-engineered CKD condition with bolted design. No welding allowed at site. Includes Design/Coding + Heavy CNC milling			
1.7	Aluminium Substructure for Skylight Glazing	1,301.12	Sq Mt	
	Design, Fabrication, Supply, Installation, cleaning & handover of Elliptical Dome shape Skylight glazing system designed to withstand the wind pressure of conforming to IS -875 part III. The profile system consists of glass which mechanically fixed to Mullion & transom profiles with aluminium toggle. The mullions and transoms are installed on MS brackets welded to the steel structure. (As indicated in the concept tender drawing) with three dimensional adjustment with serrations and serrated washers to arrest the wind load movement, Anchor, screws and fasteners with non staining weather sealant and aluminium flashing sealed all around perimeter 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. Glass mechanically fixed with pressure plate & cover cap on mullion. Grooves between transom & glass should be filled with non staining non bleeding weather silicone as per tender intent drawings. Water proofing - All components should be sealed for water proofing with silicon of approved make of water proof membrane with internal / external aluminium flashing finished to approval. The glazing system should be sealed to hoist structure and allow movements etc in its service life. Cutting, routing, machining, and shop-assembly of mullions/transoms. Aluminium extrusions (Alloy 6063 T5/T6), MS brackets, EPDM gaskets, structural silicon, and fasteners			

	The system design shall be based on closed joint system & with minimum 2 barrier gaskets for improved weather performance, drainage at all floor levels. The design to accommodate building movements, thermal expansions & the seismic movements. 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. Provide exterior perimeter sealants where skylight abutt adjacent materials including, but not limited to concrete shear walls, slab on grade and penetrations for ancillary equipment, accessories and full proof system. Flashing / Trim / Floor Closure at Parapet level, floor level, beam bottom level and required flashings shall be provided continuously with required aluminium sheet & 1.2 mm thk. waterproofing membrane. System shall have aluminium bend sheet flashing member from outside with thermal insulation as indicated in tender concept drawings. Internal & External concealed flashings shall be 1.2 mm thk Aluminium sheet. External & internal exposed flashing shall be 2 mm thk. aluminium sheet. 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 with minimum warranty of 25 years. The non visible aluminium surfaces shall have minimum chromatizing treatment.			
1.8	Glass Handling & Installation	1,301.12	Sq Mt	
	Glass handling by using winch / robotic arm / crane or suitable lifting arrangement from delivery point to the installation locations. Robotic glass handling for precise glass location, along with allied winch systems Glasses to be store by suitable rack / fabricated stand for further installation. Brakage of glass should not exceed more than 2 % of total quantity while handling. Brakage of glass should not exceed more than 3 % of total quantity while installation.			
1.90	Dome Skylight at Terrace			
	Vision Glass (GLS 07) : 37.52 mm DGU Laminated			
	Providing & fixing of 8 mm thk. Low-E coating HS glass + 16 mm air gap with Black Anodized Spacer + 6 mm Clear H.S. glass+1.52 mm PVB Lamination+6 mm thk. Clear H.S. glass .The glass properties & specification shall confirm to as mentioned in tender specification Annexure.	1,600.00	Square Metre	
	2 mm thk. Aluminium Sheet Cladding			
	Supply & fixing of 2 mm thk. Aluminium solid sheet cladding at periphery & top with necessary aluminium framing & brackets as per tender intent drawings.The quote rate shall include all design, engineering & shop drawing approval from architect & consultant. The quote	125.00	Square Metre	

	rate shall include all Taxes, duties, statutory obligations and safety code compliance as per client.			
2.0	Unitized Four Sided Structural Glazed curtain wall			
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning and Handover of Unitized Four-Sided Structural Glazing Curtain Wall System			
	Design, fabricate, supply, install, test, protect, clean and hand over a Unitized Four-Sided Structural Glazing Curtain Wall System, complete in all respects, conforming to the approved drawings, specifications and BOQ requirements. The curtain wall system shall be custom engineered to withstand the design wind loads in accordance with IS 875 (Part III) and shall incorporate microwave-cured EPDM gaskets, structural and weather silicone sealants, open-cell PU spacer tape, backer rods, aluminium edge guards, aluminium trims, flashings and all necessary accessories to achieve a complete weatherproof façade system.			
	The unitized system shall be based on an open-joint pressure equalized principle comprising a minimum three-barrier EPDM gasket arrangement to provide superior air and water tightness. The system shall include pressure equalization chambers, continuous drainage at every floor level, and pressure release slots within the spandrel panel vertical profiles to prevent condensation. All metal-to-metal joints in wet areas shall be sealed using approved joint sealants to ensure complete water tightness. The system shall be designed to accommodate: - Building sway and inter-storey drift. - Thermal expansion and contraction. - Seismic movements. Surface temperatures ranging from 80°C to 90°C with a temperature differential of 25°C without inducing excessive stresses. Building construction tolerances up to ±50 mm.			
	The curtain wall shall consist of floor-height unitized panels supported on face-mounted/slab-mounted or hook-on aluminium brackets fabricated from Aluminium Alloy 6061-T6, complete with serrated adjustment plates, serrated washers, SS 316 fasteners, stainless steel anchor fasteners and nylon separators to prevent bi-metallic corrosion. The bracket system shall permit three-dimensional adjustment during installation and shall securely transfer dead, live and wind loads to the building structure. The glazing system shall accommodate: - Double Glazed Units (DGU) in vision areas. - Single Glazed Units (SGU) in spandrel areas. Aluminium adaptor profiles to compensate for thickness differences between DGU and SGU. Integrated openable vents as indicated in architectural drawings while maintaining a uniform external appearance identical to fixed glazing panels.			

	Each glass panel shall be structurally bonded to the unitized framing system using approved structural silicone. Dead load support shall be provided by a minimum of two black anodized aluminium glass retainers at the bottom of each panel. Aluminium edge guards shall be installed continuously along all vertical and horizontal joints. The sealing system shall comprise three continuous barriers of microwave-cured (online cured) EPDM gaskets having Shore A hardness between 60 and 65, ensuring long-term durability and weather resistance.			
	Continuous flashings, trims and floor closures shall be provided at parapets, floor slabs, beam soffits and all other interface locations as required. Flashing materials shall comprise: Concealed internal and external flashings: 1.2 mm thick GI sheet. External exposed flashings: 2.0 mm thick aluminium sheet with Super Durable Fluoropolymer (SDF) coating matching the external façade finish. Internal exposed flashings: 2.0 mm thick aluminium sheet with SDF coating matching the internal aluminium finish.			
	All aluminium extrusions shall be manufactured from Aluminium Alloy 6063-T5/T6, complying with applicable DIN/EN standards, using approved extrusion manufacturers. Structural members shall have a minimum wall thickness of 3.0 mm at load transfer and fastening locations, while non-structural members shall have a minimum wall thickness of 2.0 mm. All visible internal and external aluminium surfaces shall receive 60–80 micron High Durability/Super Durable powder coating (AkzoNobel/Jotun or approved equivalent) conforming to AAMA 2604. Concealed aluminium surfaces shall receive a minimum chromate conversion treatment before fabrication.			
	The completed curtain wall system shall satisfy all specified performance criteria for: Air infiltration. Water penetration. Structural performance under design wind loads. Seismic movement.			

	Prior to commencement of fabrication or installation, the proposed curtain wall system shall undergo mandatory laboratory performance testing at an NABL-accredited testing laboratory equipped with a fully automated data acquisition system capable of directly recording all test parameters. Testing shall be carried out in accordance with the following standards: ASTM E283 – Air Infiltration ASTM E331 – Water Penetration ASTM E330 – Structural Performance AAMA 501.1 – Dynamic Water Penetration AAMA 501.4 – Seismic Drift			
	The sequence of testing, acceptance criteria and performance requirements shall be strictly as specified in the tender documents. No fabrication, supply or installation shall commence until successful completion and approval of the laboratory performance tests. Laboratory performance testing shall be measured and paid under a separate BOQ item. The quoted rate shall include all design calculations, shop drawings, engineering, fabrication, transportation, handling, lifting, installation, temporary protection, sealants, gaskets, brackets, fasteners, flashings, accessories, testing, cleaning and complete handover of the curtain wall system, ready for intended use, in accordance with the approved drawings, specifications and directions of the Engineer-in-Charge.			
	Rate for complete design, fabrication, supply, installation, testing and commissioning of the Continuous Glazing System as specified under Item (A).	4,066.58	Sqm	
	Rate for complete design, fabrication, supply, installation, testing and commissioning of the above under (A) - Slant glazing	1,162.53	Sqm	
	Rate for complete design, fabrication, supply, installation, testing and commissioning of the under (A) - Strip glazing at fourth floor	162.04	Sqm	
	Rate for complete design, fabrication, supply, installation, testing and commissioning of the above under (A) - Segmented glazing at North & South elevations	306.97	Sqm	
	Rate for complete design, fabrication, supply, installation, testing and commissioning of the above under (A) - Inside Strip glazing at East Elevation	170.00	Sqm	
	Rate for complete design, fabrication, supply, installation, testing and commissioning of the above under (A) - Strip glazing at 5th floor	229.84	Sqm	
3.0	Spandrel Shadow Box behind spandrel glass			

	Providing and fixing Spandrel Shadow Box Assembly comprising 50 mm thick mineral wool insulation of 64 kg/m³ density with factory-laminated 0.65 mm thick black glass veil, securely housed within a 1.2 mm thick aluminium sheet tray on the front side and 1.2 mm thick GI sheet (mill finish) on the rear side, complete with all necessary supports, fasteners and accessories. The complete shadow box assembly shall be installed maintaining a minimum 50 mm clear air gap between the insulation assembly and the glass surface to prevent thermal bridging and condensation. The exposed aluminium tray shall be finished with black powder coating to achieve a uniform appearance behind the spandrel glazing, complete in all respects as per the approved drawings and specifications.	2,698.88	Sqm	
4.0	Fire Stop			
	Providing, supplying and installing a perimeter fire containment system at the interface between the curtain wall/façade and the edge of the structural floor slab, complete with all materials, accessories, supports and fixing arrangements in accordance with the approved drawings and the manufacturer's recommendations. The fire containment system shall comprise 120 mm minimum thick compressed rock fibre insulation of minimum 80 kg/m³ density, factory-faced with an impervious aluminium foil facing and installed with a minimum 10% compression or as recommended by the manufacturer to ensure continuous fire sealing. All foil joints shall be sealed on site using Class O fire-rated aluminium foil tape to provide a continuous barrier. The complete assembly shall achieve a minimum 2-hour fire resistance rating (Integrity – 120 minutes and Insulation – 120 minutes) when tested in accordance with BS 476 Part 20, EN 1364 Part 4, ASTM E2307, or equivalent internationally recognized standards by an accredited laboratory.			
	The fire barrier shall be securely retained using zinc-coated galvanized steel impaling clips configured and spaced in accordance with the fire barrier manufacturer's approved installation details. The clips shall be mechanically fixed to the concrete floor slab to maintain the required compression and long-term stability. Provide minimum 1.0 mm thick galvanized steel closure sheets, complete with sealed laps, joints and interfaces to accommodate adjacent screeds, flashings and façade components. The galvanized steel closure shall receive an approved intumescent coating wherever specified to maintain the required fire performance. The insulation material shall be non-hazardous, manufactured from recycled content, contain Zero VOC emissions, comply with Class M1 environmental rating, and be installed strictly in accordance with the manufacturer's recommendations. The item shall include all cutting, fitting, sealants, tapes, fixings, accessories, protection and finishing necessary for a complete and fully functional fire containment system.	1,561.50	RMT	

5.0	Top Hung Operable vent			
	Providing, fabricating, supplying and fixing Top-Hung Outward Opening Aluminium Vent integrated with the unitized curtain wall system, complete with heavy-duty stainless steel friction hinges, typhoon-rated multipoint locking system with cremone handle, drainage provision, Euro groove shutter frame, crimped corners, SS fasteners, sealants and all necessary accessories, complete in all respects. The vent shall be fabricated from Aluminium Alloy 6063-T5/T6 conforming to DIN/EN standards with a minimum structural profile thickness of 2.5 mm. Visible aluminium surfaces shall have 60–80 micron High Durability/Super Durable powder coating conforming to AAMA 2604, while concealed surfaces shall receive chromate conversion treatment. Flush transoms with mullions, black shadow grooves in elevation and non-stepped glazing configuration shall be provided. Vent Size: 1.60 m × 2.15 m, complete as per approved drawings and specifications.	215.00	No	
6.0	Side Hung Operable vent			
	Design, manufacture, supply and installation of outward opening side-operated aluminium ventilation panel incorporated within the curtain wall façade system, including all required hardware such as heavy-duty stainless steel hinges, cremone handle, typhoon-rated multi-point locking arrangement, stainless steel fixings, sealants and associated accessories to achieve required performance, durability and weather resistance. The assembly shall be constructed using Aluminium Alloy 6063-T5/T6 extrusions complying with DIN/EN standards. All exposed aluminium surfaces shall be finished with 60–80 micron High Durability/Super Durable powder coating in accordance with AAMA 2604, while concealed surfaces shall be treated with appropriate chromate conversion coating. Glass interface joints shall maintain a consistent black visual appearance. Panel Size: 800 × 2150 mm, complete in accordance with approved drawings and project specifications.	24.00	No	

7.0	Vision Glass + Openable Glass (GLS 01) : 28 mm DGU			
	Providing, supplying and fixing High-Performance Double Glazed Unit (DGU) comprising 6 mm Heat Strengthened SKN 146 (Neutral) coated glass, 16 mm dehydrated air space with black anodized aluminium spacer, and 6 mm clear fully toughened glass (100% Heat Soak Tested), complete with all necessary setting blocks, sealants and accessories. The insulating glass unit shall achieve a maximum U-value of 1.6 W/m²K, Solar Heat Gain Coefficient (SHGC) of 0.25, and Visible Light Transmission (VLT) of 40%. The glass specifications and performance shall conform to the approved project requirements and as approved by consultant, complete in all respects.	3,202.09	SQM	
8.0	Vision Glass + Openable Glass (GLS 02) : 35.52 mm DGU Laminated			
	Providing, supplying and fixing High-Performance Laminated Double Glazed Unit (DGU) comprising 6 mm Heat Strengthened SKN 146 (Neutral) coated glass, 1.52 mm PVB interlayer laminated with 6 mm clear Heat Strengthened glass, 16 mm dehydrated air cavity with black anodized aluminium spacer, and 6 mm clear fully toughened glass (100% Heat Soak Tested), complete with all necessary setting blocks, sealants and accessories. The insulating glass unit shall achieve a maximum U-value of 1.6 W/m²K, Solar Heat Gain Coefficient (SHGC) of 0.25, and Visible Light Transmission (VLT) of 40%. The glass configuration, performance parameters and quality requirements shall conform to the approved project specifications and as approved by consultant, complete in all respects.	736.41	SQM	
9.0	Spandrel Glass (GLS 03) : 6 mm SGU			
	Providing, supplying and fixing 8 mm thick Heat Strengthened Performance ST167 coated glass, matching the colour and appearance of the vision glazing, complete with all necessary setting blocks, sealants and fixing accessories. The glass shall conform to the approved performance parameters, technical specifications and project requirements as approved by the consultant, complete in all respects.	1,210.19	SQM	
10.0	Spandrel Glass (GLS 04) : 13.52 mm Laminated			

	Providing, supplying and fixing laminated Heat Strengthened Performance Glass comprising 6 mm thick Performance ST167 Heat Strengthened coated glass, 1.52 mm PVB interlayer, and 6 mm thick clear Heat Strengthened glass, matching the colour and appearance of the vision glazing, complete with all necessary setting blocks, sealants and fixing accessories. The glass assembly shall conform to the performance requirements and technical specifications stipulated in the Tender Specification Annexure, complete in all respects.	193.19	SQM	
10.1	Performance Testing (Off Site Test)			
	Off-Site Performance Testing of Unitized Curtain Wall System at an NABL-accredited laboratory to verify compliance with the specified air infiltration, water penetration, structural and seismic performance requirements using a fully automated data acquisition system. Testing shall be conducted in accordance with ASTM E283, ASTM E331, ASTM E330, AAMA 501.1 and AAMA 501.4, following the sequence and acceptance criteria specified in the Tender Specifications. Successful completion and approval of the laboratory performance tests shall be mandatory prior to commencement of fabrication or installation. The quoted rate shall include all costs associated with off-site performance testing, reporting and certification, complete in all respects.	1.00	No	
11.0	Sunshade Jali			
	Design, Fabrication, Supply and Installation of 30 mm Thick GRC Jali Cladding System with closed-joint fixing arrangement, custom engineered to withstand design wind loads in accordance with IS 875 (Part III). The complete system shall successfully withstand proof testing at 1.5 times the design wind pressure without failure. The system shall comprise 30 mm thick GRC Jali panels (minimum 50 mm thick at fixing locations), supported using hot-dip galvanized MS clamps or SS316 pins, approved anchor fasteners, structural fixings, nylon separators, non-staining weather sealants, aluminium trims, flashings and all necessary accessories. The support system shall be designed to resist wind, dead and thermal loads, including surface temperatures up to 80°C with a 25°C temperature differential.			
	The quoted rate shall include all cutting, shaping, edge finishing, corner panels, soffits, lintels, grooves, alignment with façade elevation, replacement provision for individual damaged panels, scaffolding, access arrangements, testing, protection, cleaning and complete handover. The complete installation shall comply with the approved drawings, specifications and structural requirements. Approved Make: Birla White / Everest or	3,700.00	Sqm	

	approved equivalent.			
	GRC panels shall have both side finish as per Architect's approval.			
12.0	MS Support Structure			
	Design, Fabrication, Supply and Installation of Mild Steel Support Structure comprising MS pipes, I-beams, channels, plates and other structural members of approved make and quality, conforming to relevant IS standards, complete with all connections, brackets, fasteners and accessories. The structural framework shall be designed to safely withstand all applicable dead, live, wind and thermal loads, including stresses arising from thermal expansion due to surface temperature variations, complete in accordance with the approved structural drawings and specifications.	68,000.00	Kg	
13.0	MS Support Structure Coating			
	Protective Coating for Mild Steel Support Structure comprising surface preparation by abrasive blast cleaning to Sa 2.5 in accordance with BS EN ISO 8501-1, followed by application of 75 micron Zinc Rich Epoxy Primer, 125 micron Epoxy MIO intermediate coat, and 50 micron Polyurethane finish coat on all exposed steel surfaces. The coating system shall be complete with all surface preparation, touch-up after erection and finishing, in accordance with the approved specifications.	38,000.00	Kg	
14.0	GRC Column at Circular colm at 6th L + U floor			
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning and Handover of 30 mm Thick GRC Circular Column Cladding System, custom engineered to withstand design wind loads in accordance with IS 875 (Part III). The system shall comprise 30 mm thick GRC panels (minimum 50 mm thick at fixing locations) fixed using hot-dip galvanized MS clamps or SS316 pins, approved anchor fasteners, structural fixings, nylon separators, non-staining weather sealants, aluminium trims, flashings and all necessary accessories. The support system shall be designed to resist wind, dead and thermal loads, including surface temperatures up to 80°C with a 25°C temperature differential, while permitting replacement of individual damaged panels without disturbing adjacent panels. The quoted rate shall include all cutting, shaping, edge finishing, corner/junction details, grooves, soffits, lintels, scaffolding, access arrangements, protection, cleaning and complete installation in accordance with the approved drawings	1,300.00	SQM	

	and specifications. Approved Make: Birla White / Everest or approved equivalent.Quote the rate for the complete 30 mm Thick GRC Circular Column Cladding System as mentioned above, complete in all respects. Providing and Fixing pigmentation and texture finish over Alkali Resistant (AR) Glassfibre jali and panels using crush/aggregate of selected stones approved for the project,)			
	GRC panels shall have both side finish as per Architect's approval.			
15.0	GRC Panel at Terrace projection			
	Design, Fabrication, Supply, Installation, Testing, Protection, Cleaning and Handover of 30 mm Thick GRC Panel Cladding System, custom engineered to withstand design wind loads in accordance with IS 875 (Part III). The system shall comprise 30 mm thick GRC panels (minimum 50 mm thick at fixing locations) supported on a concealed fixing system using hot-dip galvanized MS clamps or SS316 pins, approved anchor fasteners, structural fixings, nylon separators, non-staining weather sealants, aluminium trims, flashings and all necessary accessories.The cladding support system shall be designed to resist wind, dead and thermal loads, including surface temperatures up to 80°C with a 25°C temperature differential, while allowing replacement of individual damaged panels without disturbing adjacent panels. The quoted rate shall include all cutting, shaping, edge finishing, grooves, corner and junction details, soffits, lintels, protection, cleaning and complete installation as per the approved drawings and specifications.			
	The item shall also include the complete mild steel support framework fabricated from approved MS pipes, I-beams, channels, plates and other structural sections conforming to relevant IS Standards. Concealed steel members shall be hot-dip galvanized, while exposed steel members shall receive Sa 2.5 abrasive blast cleaning, followed by 75 micron Zinc Rich Epoxy Primer, 125 micron Epoxy MIO intermediate coat, and 50 micron Polyurethane finish coat. The support structure shall be designed to accommodate structural and thermal movements.The quoted rate shall include scaffolding, access arrangements, lifting equipment, testing, protection, cleaning and complete handover of the 30 mm Thick GRC Panel Cladding System.Approved Make: Birla White / Everest or approved equivalent.Quote the rate for the complete GRC Panel Cladding System under Item mentioned above, complete in all respect			
	Providing and Fixing pigmentation and texture finish over Alkali Resistant (AR) Glassfibre jali and panels using crush/aggregate of selected stones approved for the project,)	7,000.00	Sq.m	
	MS Support Structure Quote rate for complete MS support system as mentioned above under (J)	1,10,000.00	kg	

	MS Support Structure Coating Fiinish Quote rate for complete MS support system coating as mentioned above under (J)	1,10,000.00	kg	
	GRC Panel at Beam Cladding			
	GRC pigmented Cladding on the edges as mentioned in drawing			
	5th Floor	1,700.00	Sq.m	
	MS Support Structure Quote rate for complete MS support system as mentioned above under (J)	26,000.00	kg	
	MS Support Structure Coating Fiinish Quote rate for complete MS support system coating as mentioned above under (J)	26,000.00	kg	
	6th Lower floor	2,500.00	Sq.m	
	MS Support Structure Quote rate for complete MS support system as mentioned above under (J)	72,700.00	kg	
	MS Support Structure Coating Fiinish Quote rate for complete MS support system coating as mentioned above under (J)	72,700.00	kg	
	GRC panels shall have both side finish as per Architect's approval.			
16.0	Dry Stone Cladding			
	Design, Fabrication, Supply and Installation of Dry Stone Cladding System using 18 mm thick Agglomerated Composite Stone/Italian Marble (Kalinga Stone) with an open-joint ventilated fixing system, custom engineered to withstand design wind loads in accordance with IS 875 (Part III). The system shall comprise approved stone panels fixed on Aluminium Alloy 6060-T5 framing with a minimum 20–22 micron anodized finish, complete with hot-dip galvanized MS brackets (100 micron zinc coating), anchor fasteners, mechanical fixing accessories and all necessary hardware. Stone panels shall be groove-cut, edge-finished, polished and securely fixed to the supporting framework, permitting individual panel replacement without disturbing adjacent panels.			
	The stone surface shall be treated with a resin-based sealer to reduce water absorption, moss formation and dust accumulation. The quoted rate shall include all fabrication, chamfering, polishing, scaffolding, lifting, wastage, protection, cleaning and complete installation at all levels, in accordance with the approved drawings and specifications. Application: Ramp, Staircase, Entrance Portal and Ground and first, secound floor Column Cladding, complete in all respects. Quote rate for complete system as mentioned	13,105.25	SQM	
	Stone Finish: - Dallia – Leather Finish	10,484.20	SQM	
	Stone Finish: - Bronze Armani – Polished Finish	1,310.53	SQM	
	Stone Finish: - Dallia – Polished Finish	1,310.53	SQM	
17.0	Semi-unitized Vertical Strip Glazing at 6th Floor			

	Design, Fabrication, Supply, Installation, Cleaning and Handover of Semi-Unitized Vertical Strip Glazing System, custom engineered to withstand design wind loads in accordance with IS 875 (Part III). The system shall comprise structurally glazed aluminium framing with structural silicone, double-sided tape, Aluminium Alloy 6005-T6/HDG MS brackets with three-dimensional adjustment, anchor fasteners, stainless steel fasteners, EPDM gaskets, weather sealants, aluminium flashings and all necessary accessories, complete in accordance with the approved drawings and specifications. The glazing system shall be based on a closed-joint pressure equalized design with dual microwave-cured EPDM gasket barriers, drainage provisions, pressure relief arrangement for spandrel panels, and shall accommodate thermal expansion, building movement and seismic drift while maintaining complete weather tightness. Flashings, trims and floor closures shall be provided using GI/aluminium sheets as specified.			
	The item shall also include design, fabrication, supply and installation of double-leaf aluminium framed swing doors integrated with the glazing system, complete with heavy-duty outer and shutter frames (minimum 2 mm thick), floor springs, concealed door closers, heavy-duty hinges, aluminium threshold, EPDM gaskets, SS316 fasteners, weather sealants and all necessary hardware to accommodate 28 mm DGU glazing. All aluminium extrusions shall be Alloy 6063-T5/T6 conforming to DIN/EN standards. Exposed aluminium surfaces shall be finished with 60–80 micron High Durability/Super Durable powder coating conforming to AAMA 2604, while concealed surfaces shall receive chromate conversion treatment, complete in all respects as per the approved drawings and specifications.			
	Quote rate for Semi-Unitized Window glazing system	754.27	SQM	
	Providing, supplying and fixing Spandrel Shadow Box Assembly comprising 50 mm thick mineral wool insulation of 64 kg/m³ density with factory-applied black tissue/veil, enclosed within a 1.2 mm thick aluminium front tray and 1.2 mm thick GI sheet (mill finish) rear tray, complete with all necessary supports, fasteners and accessories. The assembly shall be installed maintaining a minimum 50 mm clear cavity from the glazing surface. The exposed aluminium tray shall be finished with black powder coating, complete in accordance with the approved drawings and specifications.	88.13	SQM	
	Providing, supplying and fixing High-Performance Double Glazed Unit (DGU) comprising 6 mm Heat Strengthened SKN 146 coated glass, 16 mm dehydrated air cavity with black anodized aluminium spacer, and 6 mm clear fully toughened glass (100% Heat Soak Tested), complete with all necessary setting blocks, sealants and fixing accessories. The glazing unit shall conform to the performance requirements and technical specifications stipulated in the Tender Specification Annexure, complete in all respects.	666.14	SQM	

	Providing, supplying and fixing 8 mm thick Heat Strengthened Performance ST167 coated glass, matching the colour and appearance of the vision glazing, complete with all necessary setting blocks, sealants and fixing accessories. The glass shall conform to the approved performance requirements and technical specifications as directed by the Consultant, complete in all respects.	88.13	SQM	
	Quote the rate for the complete Double Leaf Aluminium Glazed Door System, including vision glazing, spandrel glazing, shadow box insulation, all fittings, hardware, sealants, fixing accessories and installation, complete in all respects as specified under Item (H).Door Size: 1500 mm x 2400 mm. Quantity: 4 Nos.	14.40	SQM	
18.0	Catwalk with GRP grating			
	Design, Fabrication, Supply and Installation of GRP Catwalk Grating System comprising 750 mm wide Glass Fibre Reinforced Polymer (GRP) grating, custom engineered to withstand design wind loads in accordance with IS 875 (Part III) and a minimum live load of 75 kg. The system shall be prefabricated and supported on aluminium mullions with integral stiffeners, stainless steel brackets and all necessary fixing accessories. The GRP grating shall comply with the specified structural load and deflection criteria for walkway applications, be reinforced with continuous glass rovings, and conform to the applicable provisions of ANSI/NAAMM 531-09. The complete system shall successfully withstand a proof load of 1.5 times the design wind pressure without failure.			
	The item shall include the complete mild steel support structure fabricated from approved MS pipes, channels and plates conforming to relevant IS standards, complete with Sa 2.5 abrasive blast cleaning, 75 micron Zinc Rich Epoxy Primer, 125 micron Epoxy MIO intermediate coat, and 50 micron Polyurethane finish coat on exposed steel surfaces.Quote the rate for the complete GRP Catwalk Grating System, including design, structural calculations, fabrication, protective coating, transportation, installation, testing, brackets, fasteners and all accessories, complete in all respects as specified under Item (B).	870.00	SQM	
19.0	Aluminium Vertical Fins At 5th floor 180 X 350 X 6mm thk Box Section Spacing Of the Finns is 600mm	706.00	Nos	
	2 mm thk. Aluminium Sheet Cladding - Supply & fixing of 2 mm thk. Aluminium solid sheet cladding at periphery & top with necessary aluminium framing & brackets as per tender intent drawings.The quote rate shall include all design, engineering & shop drawing approval from architect & consultant. The quote rate shall include all Taxes, duties, statutory obligations and safety code compliance as per client.	125.00	Sq.m	
20.0	Fire Protection using Intumescent Paint.			

	Providing & applying intumescent fire retarding coating of AKZONOBEL/Carboline/Iris Coatings Soprema make or equivalent in required thickness as per design for fire rating of 2 hour/ 120 minutes to exposed steel work at any height in its finally erected position as per manufacturer's recommendations for surface treatment and application including primer cross beams sprayed in position & at site including all scaffolding, primer, finish coat & ancillary tools machinery required all as per manufacturers recommendation & certification, etc. all completed to the entire satisfaction of EIC.	3,470.67	Sqm	
	Intumescent coating shall be very low VOC, waterborne, high performance providing very effective fire barrier due to high active solid content of minimum 70%, char strength and nano fillers and shall have minimum density of 1.35. Intumescent coating shall be such which shall provide fast development of stable, low heat transfer so as to provide effective and long term protection to flammable and non-flammable substrates. Intumescent coating shall have comply to EN 13381-4, shall have European Technical Approval as per ETA 17 for passive fire protection of steel structures and DOP (Declaration of performance)			
	Intumescent coating shall have following minimum properties: 1. Density : 1.3 2. Solid Content : 70% minimum 3. Colour : White 4. Spreading Rate : 0.5MM DFT with 1 kg/sqm wet film thickness 5. Application : By air less spray. For small area or retouching , brush or roller can be used. 6. Minimum & Maximum Application Temperature : 5 deg Celsius and 45 deg Celsius.			
	Intumescent coatings shall be done over primer surface. Primer shall be selected based on exposure. For indoor exposure (most common for an intumescent system), one pack phenolic alkyd primer shall be used and primer shall provide anti corrosive properties and good adhesion to steel and zinc coated steel. For aggressive environment, where higher corrosion protection is required, 2 pack epoxy primer shall be used. Phenolic Alkyd primer shall have following minimum properties :Density : 1.5 ; Solid Content : 70%; Colour : RAL 7038. For 2 pack epoxy primer shall have following minimum properties (i) Density 1.5; Solid Content : 70% minimum; Intumescent coating manufacturer shall provide intumescent sealant for fireproofing of joints, gaps and penetrations. Intumescent sealant shall have European Certification tested according to EN 1363-1:2012"			
	Fire Resistance Tests: General Requirements"; EN 1366-3:2009 "Fire Resistance Tests for service installation, EN 1366-4:2006 "Fire Resistance tests for service installations. Suitable acrylic paint top coat is recommended over intumescent coating and is useful in internal environment to improve aesthetics and reduce dirt pick up. For moist surfaces and outdoor exposure,			

	top coat is recommended of solvent borne 2 component polyurethane.			
21.0	BMU System			
	Design, Fabrication, Supply, Installation, Testing, Commissioning and Handover of Complete Façade Access & Building Maintenance System (BMU) comprising Aluminium Monorail System, Power Suspended Cradle, Spiderman Access System, I-Bolt Lifeline System, Aerial Work Platform and associated cleaning accessories, complete in accordance with the approved drawings, specifications and relevant international standards. The scope shall include extruded Aluminium Alloy 6061/6351-T6 monorail profiles with bends, joint plates, end stops, T-bolts and accessories; hot-dip galvanized MS support brackets with SS mechanical/chemical anchor fasteners; manually operated SS travelling trolley with PU wheels/cord; self-propelled battery-operated aerial work platform (10 m working height); two aluminium power suspended rotating cradles with traction hoists, safety devices, wire ropes, electrical system and accessories; Spiderman access kit with ropes and accessories (IBIS or approved equivalent); roof-mounted I-Bolts, roof safety lifeline system, rope ladder, 10 m telescopic cleaning pole with brush and squeegee, electrical power supply cables, strain relief connectors and all associated components required for a complete operational façade maintenance system.			
	The cradle system shall be complete with all mandatory safety devices including anti-fall safety locks, overload protection, upper and lower limit switches, anti-collision devices, emergency stop, manual lowering mechanism, earth leakage protection, guide rollers, façade protection pads, harness anchorage points and all safety equipment complying with applicable CE Regulations, EN 1808 and other relevant international standards. The quoted rate shall include complete system design, engineering calculations, fabrication, factory testing, packaging, transportation, erection, installation, commissioning, statutory approvals, demonstration, operator training, testing, certification, warranty, protection, cleaning and handover, complete in all respects as per the approved specifications.			
	Providing, fabricating, supplying and installing Aluminium Alloy Monorail Profile System complete with required bends, T-bolts, end stops, joint plates, connection screws, washers and all necessary fixing accessories for installation from 2nd to 5th Floor, complete in accordance with the approved drawings and specifications.	436.00	RMT	
	Providing, fabricating, supplying and installing Hot-Dip Galvanized Mild Steel Monorail Support Brackets complete with approved anchor fasteners, connection hardware, fixing accessories and all ancillary components required for secure installation, in accordance with the approved drawings and specifications.	228.00	Nos	

	Providing, supplying and installing manually operated Stainless Steel Travelling Trolley with polyurethane (PU) guide cord/wheels, complete with all necessary fittings, fixing accessories and operational components for smooth movement on the aluminium monorail system, in accordance with the approved drawings and specifications.	2.00	Nos	
	Providing, supplying, installing and commissioning Self-Propelled Battery/Electric Operated Single Mast Aerial Work Platform with a working height of 10 metres, complete with platform, drive system, controls, safety devices, battery charger and all necessary accessories for atrium cleaning and maintenance, in accordance with the approved drawings and specifications.	1.00	Nos	
	Providing, supplying and installing Rope Ladder System complete with high-strength ropes, ladder rungs, anchorage fittings and all necessary accessories for safe access during dome cleaning and maintenance, in accordance with the approved drawings and specifications.	1.00	Nos	
	Providing, supplying and commissioning Spiderman Access Kit comprising safety harness, ropes, descender, ascender, connectors, anchorage accessories and all associated safety equipment, IBIS make or approved equivalent, complete for façade cleaning and maintenance operations in accordance with the approved specifications.	1.00	Nos	
	Providing, supplying and installing Stainless Steel Roof Anchor (I-Bolt) at the terrace level, complete with anchor fasteners, fixing accessories and all necessary components for safe attachment of façade access and fall protection systems, in accordance with the approved drawings and specifications.	154.00	pairs	
	Providing and supplying one 10 m long aluminium telescopic cleaning pole complete with soft brush head, integrated squeegee and all necessary accessories for atrium and ground floor glazing cleaning. The scope shall include demonstration of proper operation and maintenance to the Employer's representative.	1.00	Nos	
	Design, supply, installation and commissioning of electrical power supply cables and strain relief connectors, complete with all terminations, fittings and accessories. Cable size, type and gauge shall be selected based on the approved design and functional requirements. The quoted rate shall include the complete quantity of cables required for satisfactory operation of the system.	100.00	RMT	
	Providing, supplying, installing and commissioning Aluminium Alloy Power Suspended Rotating Cradle System (2 Nos.) complete with drive unit, traction hoist, safety locks, wire rope reelers, rope climbing mechanism, electrical control system, suspension arrangement, cleaning tool holders and all necessary accessories. The cradle shall have a safe working load of 240 kg suitable for two persons with cleaning equipment, and shall comply with applicable CE Regulations and relevant international safety standards for hoists and safety	1.00	Nos	

	devices.			
	Providing, supplying, installing and commissioning Roof-Mounted Horizontal Safety Lifeline System, complete with stainless steel wire rope, intermediate and end anchors, energy absorbers, tensioners, fixing accessories and all necessary components for safe façade access and fall protection, in accordance with the approved drawings, applicable safety standards and manufacturer's recommendations.	10.00	RMT	
	Installation, erection, testing, commissioning, demonstration and handover of the complete façade access system, including all labour, tools, equipment, temporary supports, alignment, adjustments, functional testing, certification and all incidental works required for satisfactory operation, complete in accordance with the approved drawings and specifications.	1.00	LS	
22.0	GLASS SKYLIGHT AT RAMP ROOF			
	Glass Skylight at ramp roof Design, Fabrication, Supply, Installation, cleaning & handover of Skylight glazing system designed to withstand the wind pressure of confirming to IS -875 part III. The profile system consist of glass which mechanically fixed to Mullion & transom profiles with aluminium toggle. The mullions and transoms are installed on MS brackets welded to the steel structure. (As indicated in the concept tender drawing) with three dimensional adjustment with serrations and serrated washers to arrest the wind load movement, Anchor, screws and fasteners with non staining weather sealant 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. Glass mechanically fixed with pressure plate & cover cap on mullion. Grooves between transom & glass should be filled with non staining non bleeding weather silicone as per tender intent drawings. The system design shall be based on closed joint system & with minimum 2 barrier gaskets for improved weather performance, drainage at all floor levels. The design to accommodate building movements, thermal expansions & the seismic movements. 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 in the wet area shall be small joint sealant applied to ensure water tightness. The two barrier gasket system consists of 1st & 2nd gasket barrier of EPDM gaskets to achieve the required compression & seal in the system. EPDM			
	Skylight glazing system Quote rate for complete system as mentioned above under (M)	80.00	Sq.m	

	Vision Glass (GLS 07) : 37.52 mm DGU Laminated Providing & fixing of 8 mm thk. Low-E coating HS glass + 16 mm air gap with Black Anodized Spacer + 6 mm Clear H.S. glass+1.52 mm PVB Lamination+6 mm thk. Clear H.S. glass .The glass properties & specification shall confirm to as mentioned in tender specification Annexure.	80.00	Sq.m	
	Steel Structure Work Providing & fixing of steel Structure to support for Skylight .	2,000.00	Kg	
	MS Support Structure Coating Finish Quote rate for complete MS support system coating finish as mentioned above under (L)	2,000.00	Kg	
25.0	FRAMELESS			
	Design, supply and install Frameless full height glazing system , custom designed to with stand the design wind pressure confirming to IS -875 part III.The design shall accommodate glass panel of 22.25 mm thk laminated glass and its dead load. The glass fixed in S.S. 316 channel at top & bottom with supported Glass fin at top. There should be no glass divisions allowed , full height glass need to fix with glass to glass joint having non- staining weather silicone. Design shall accommodate floor movement of 25 mm at the floor bottom SS channel, with SS 316 grade fasteners and anchor bolts 316 grade of approved make, non- staining weather sealants of Dow Corning or approved make, teflon/ nylon bushes & separators to prevent bi-metallic contacts, all in complete required to perform as per specification and drawing in conjunction with BOQ. All glass joints shall be 8 -10 mm minimum between glass to glass and at perimeters 12-15 mm for expansion and sealing. SS Articulated flat headbolts with 12 degree rotation shall be used. End glass panels shall have aluminium anodised channel profile at RCC perimeter for accomodating structural tolerances and weather seal.			
	Frameless Glazing System Quote rate for complete system as mentioned above under (D) for Main Lobby area	300.00		
	Quote rate for complete system as mentioned above under (D) for Lobby area A,B,C & D	325.00		
26.0				
FT-07	Glass Railing			
	Design, supply and install Glass Railing system having height Of 1200 mm from FFL (SS 316 Grade) at refuge floor and terrace level, custom designed to with stand the design wind pressure confirming to IS -875 part III.The design shall accommodate glass panel of 12.89 mm thk Sentry laminated glass and its dead load. The glass will be fixed with S.S. balustrade post having minimum thickness of 12 mm as per structural requirement to be fixed with necessary connection made out of stainless steel fittings of approved design with necessary termination /bends etc. complete. It shall consist of 50 mm dia. S.S. hand rail			

	fixed on balustrade.			
	Design shall accommodate floor movement of 25 mm at the floor bottom SS base plate, with SS 316 grade fasteners and anchor bolts 316 grade of approved make, weather sealants of Dow Corning or approved make, teflon/ nylon bushes & separators to prevent bi-metallic contacts, all in complete required to perform as per specification and drawing in conjunction with BOQ.			
g.1	Glass Railing System			
	Quote rate for complete system as mentioned above under (G)	37.00	Nos.	
g.2	Glass :- 12.89 mm Thk.Sentry Plus Laminated (GLS 06)			
	Providing & fixing of 6 mm Clear Float Glass Toughened + 0.89 mm SGP interlayer + 6 mm Clear Float toughened Glass (100% Heat Soak Tested)	39.00	Square Metre	
27.0	CONVENTIONAL			
	Design, Fabrication,Supply, Installation, protection, cleaning & handover of Conventional capped curtainwall 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 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 dimentional adjustment with serrations and serrated washers to arrest the wind load movement, Anchor, screws and fasteners with non staining weather sealant 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. 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 floor levels,Transom shall be overlap with mullion to have proper drange to mullion. The design to accommodate building movements, thermal expansions & the seismic movements. 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 in the wet area shall be 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 shal lbe designed to accommodate 24mm DGU glass panel. System shall accomodate openable panel as per architectural requirment 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			

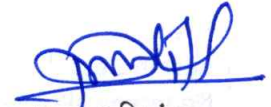
	gasket barrier of EPDM gaskets to achieve the required compression & seal in the system. EPDM Gaskets shall be of micro cured (Online Curing) with shore A hardness of 60-65. Flasing / Trim / Floor Closure at Parapet level, floor level, beam bottom level and required flashings shall be provided continuously with required GI / Aluminium sheet. Internal & External cancelled Flashings shall be 1.0mm thk GI sheet. External exposed flashing shall be 1.5 mm thk. Aluminium sheet with SDF coated matching with external Aluminium profiles. Internal exposed flashing shall be 1.2 mm thk. Aluminium sheet with powder coated matching with internal aluminium profiles. Design, fabrication, supply, installation, cleaning & handover Double shutter aluminium framed swing door custom designed to withstand the design wind pressure. The system shall have two barrier gasket system for weather sealing & provision for aluminium thrash hold at bottom . The profile system shall beconsist of heavy duty outer and shutter frame assembly with minimum of 2 mm thickness. The door consist of heavy duty floor spring as per requirement. The system shall have necessary arrangement for concealed door closure , Three leaf projected type heavy duty hinges of approved make , Microwave cured EPDM gaskets .Door shutter profile to accommodate the 28 mm DGU glass, weather sealants, SS 316 grade screws and fasteners of approved make, all in complete required to perform as per specification and drawing in conjunction with BOQ. The extruded aluminium sections of Alloy 6063 T5 / T6 & tolerances confirming to DIN / EN standard from approved extruder. The profiles shall have minimum 2 mm wall thickness. All the internal visible & externally 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 chromatizing treatment.			
	Male Lounge	56.00	Sq Mt	
	Female Lounge	56.00	Sq Mt	
	Lounge for disabled	37.00	Sq Mt	
	Executive dining Room	61.00	Sq Mt	
	Cafeteria Seating	45.00	Sq Mt	
	Recreation Room	56.00	Sq Mt	
	Lobby	17.00	Sq Mt	
	Library Room	56.00	Sq Mt	
	Fire Room	24.00	Sq Mt	
	Med Room	42.00	Sq Mt	
	Inward & Outward	26.00	Sq Mt	
	Electronic Tendering	41.00	Sq Mt	
	Citizen Facility	50.00	Sq Mt	
28.0	FAÇADE LIGHTING			

28.1	WLL/T/MBM046-PIC120-120W30 - Exterior Surface Mounted Spot Light 120W - 75lm/W - 3000K 90° Distribution - IP66 - Dimension: L257mm x W71mm x H264mm Input Voltage: 220VAC (50-60Hz) Power consumption: 120W Efficiency: 82% Brand of LEDs: LED CREE Angle: 90° Function Dimmer: Non Dimmable Material: Aluminium Finishing (Color housing): Black Class: I	15.00	Nos.	
28.2	WLL/T/MBM047-SAN50S-50WRGB WW - Exterior Surface Mounted Spot Light 50W 75lm/W 3000K 45° Distribution IP66 Dimension: Face170 x H170 mm Input Voltage: 220VAC (50-60Hz) Power consumption: 50W Efficiency: 88% Brand of LEDs: LED CREE Color: Option Angle: 45° Function Dimmer: Non Dimmable Material: Anodized Aluminium, Glass Finishing (Color housing): Grey Class: I	6.00	Nos.	
28.3	WLL/T/MBM049-LL1-19WRGB WW - Exterior surface mounted flat flex profile 19.2W per mtr, RGBWW Material - silicon Beam Angle : 160 degree Encapsulated End cap IP67 Salt water resistant, UV resistant, Anti yellowing properties to be supplied with high quality anodised Aluminium mounting clip with remote driver	191.00	Nos.	
28.4	WLL/T/MBM050-UP1-24W30 - Exterior Inground Recessed Upilghter 8X3W 15° 3000K IP67 Dimension: D150mm x H110mm Input Voltage: 36V 700mA Power consumption: 24W Efficiency: 82% Brand of LEDs: LED CREE Angle: 15°, Material: Aluminium Finishing (Color housing): stainless steel IP: 67 Solid aluminium body SS 316 Faceplate SS 316 screws Best in class thermal management Neoprene Italian all-weather proof cable High quality German IP68 gland with anti capillary feature	64.00	Nos.	

28.5	WLL/T/MBM055-LL2-18WRGBWW Exterior Linear Wallwasher 1000mm 18W RGB WW 120° Distribution - IP66 Dimension: 50mm x 50mm max Input Voltage: 220-240 V operation Power consumption: 18W Efficiency: 82% Brand of LEDs: LED CREE Angle: 120°, Material: Aluminium Finishing (Color housing): smooth silver IP: 67 Die cast aluminium body High quality toughned glass plate SS 316 screws Easy maintainable module system, Best in class thermal management Neoprene all-weather proof Italian cable High quality German IP68 gland with anti capillary feature. with driver having 4 kv surge protection, PF .98 and THD less than 10	430.00	Nos.	
28.6	WLL/T/MBM060-LL2-36W30 - Exterior Linear Wallwasher 1000mm 36W 3000K 120° Distribution IP66 Dimension: 50mm x 50mm max Input Voltage: 220-240 V operation Power consumption: 36W Efficiency: 82% Brand of LEDs: LED CREE Angle: 10°, Material: Aluminium Finishing (Color housing): smooth silver IP: 67 Die cast aluminium body High quality toughned glass plate SS 316 screws Easy maintainable module system, Best in class thermal management Neoprene all-weather proof Italian cable High quality German IP68 gland with anti capillary feature. with driver having 4 kv surge protection, PF .98 and THD less than 10	320.00	Nos.	

28.7	WLL/T/MBM084-NAT250-250W30 - High power projector light , 10 degree, 3000K, IP66, Class 1 - Dimension: L250mm x H169mm x W87mm Input Voltage: 220VAC (50-60Hz) Power consumption: Up 250W Efficiency: 82% Brand of LEDs: LED CREE Color: 3000K Angle: 10° Material: Anodized Aluminium, Glass Finishing (Color housing): Black IP: 66 Class: I	4.00	Nos.	
28.8	WLL/T/MBM052-PIC120-120W30 - Exterior Surface Mounted Spot Light 120W - 75lm/W - 3000K 10° Distribution - IP66 Dimension: L257mm x W71mm x H264mm Input Voltage: 220VAC (50-60Hz) Power consumption: 120W Efficiency: 82% Brand of LEDs: LED CREE Angle: 10° Function Dimmer: Non Dimmable Material: Aluminium Finishing (Color housing): Black Class: I	4.00	Nos.	
28.9	DMX Control System & One time programming charges for RGB WW- Special Wiring needed which is in scope of contractor	1.00	Set	

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 २९/०८/२०२६ पर्यंत पाठवावे ही विनंती, सदर दर हे अंदाजपत्रक तयार करणेसाठी गृहित धरणेत येणार आहेत.



शहर अभियंता
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/२३२६ /प्र.क्र.०९/३९८८/२०२६,
दि. ११/८/२०२६

प्रत माहितीस्तव — १. माहिती फलक करीता
२. पनवेल महानगरपालिका संकेतस्थळ वर प्रसिध्द करण्याकरिता