

AVIATION COMPLEX AT BLUE AREA, ISLAMABAD

BILL NO. 4: FAÇADE WORK

BILL OF QUANTITIES

Item No.	Item Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
(i)	(ii)	(iii)	(iv)	(v)	(vi)

GENERAL NOTE

SCOPE : (Applicable to all sections)

Providing, supply, fabricating and applying in any floor and at any height or depth except where otherwise stated in the specific item of the Bill, including all material, labour, all operations related to the items and plant for the following items, complete in all respects as per drawings, approved shop drawings, specifications, miscellaneous details and instructions of the Engineer. etc. complete as directed.

Ref Specs: 6220, 6250, 8001, 8150, 8220

Façade 1	Providing, Design, Fabricating and Installing Thermally Broken Aluminum Curtain Wall / Façade System comprising extruded Aluminum Alloy 6063-T5/T6 mullions and transoms with minimum 2.2 mm wall thickness, pressure plates, cover caps, brackets, anchors and all fixing accessories complete, designed to withstand required design pressure, including PA66 GF25 thermal break strips, double EPDM/Neoprene gaskets, integrated drainage system, weather sealing, concealed SS-304/GI hardware, openable vents with approved accessories, powder coating 70–80 microns or anodizing 15–18 microns finish, floor-to-floor fire barrier system, adding safety in case of fire exposure, sealants and all related works complete in accordance with approved shop drawings and international standards for air permeability, water tightness and thermal performance ($U_f \leq 1.5 \text{ W/m}^2\cdot\text{K}$), as approved by the Engineer.	Sft.	285,320
Façade 2	Providing, design and Installing High-Performance Double Glazed Glass Units (DGU) on pre-installed aluminum curtain wall/stick system, comprising 6 mm tempered Grey 40T Clear glass + 16 mm argon filled gap + 6 mm clear tempered glass, including high-performance ceramic fritted spandrel glass panels where required, complete with structural silicone, approved weather sealants, setting blocks, spacers, gaskets and all necessary accessories. The glazing system shall achieve U-Value of $1.310 \text{ W/m}^2\cdot\text{K}$ and shading coefficient (SC) of 0.24, ensuring compliance with specified thermal, acoustic, air infiltration and water tightness performance standards, complete in all respects as per approved shop drawings and as per Engineer's instructions.	Sft.	250,320

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Façade 3	Providing, designing, fabricating, supplying, installing, testing and commissioning of Semi-Transparent Building Integrated Photovoltaic (BIPV) Curtain Wall System comprising thermally broken aluminum curtain wall framing integrated with CdTe Thin Film Semi-Transparent Insulated Solar Glass Units (IGUs), complete with mullions, transoms, pressure plates, cover caps, structural silicone, EPDM gaskets, aluminum brackets, galvanized steel support system, anchor bolts, DC/AC cabling, combiner boxes, string inverters, AC distribution panels, monitoring system, earthing, lightning protection system and all associated electrical and mechanical accessories. The BIPV IGUs shall comprise 8 mm heat-strengthened/fully tempered semi-transparent CdTe thin-film solar glass, 24 mm argon-filled cavity with warm-edge spacer and dual-seal system, and 6 mm clear tempered safety glass (overall thickness 38 mm). The complete system shall include detailed engineering, structural and electrical design, fabrication, transportation, installation, testing, commissioning, performance verification and all necessary accessories, complete in accordance with approved shop drawings, structural and electrical calculations, project specifications, applicable IEC/ASTM standards and as per Engineer's instructions.	Sft.	35,000		
Façade 4	Providing, Design, Fabricating and Installing Custom Extruded Aluminum Diamond Lattice Skin Façade System comprising specially designed aluminum extruded profiles forming variable perforation diamond geometry panels, fixed over secondary MS/Aluminum support framework with all node joints, connectors, brackets, anchors, alignment systems, edge trims and SS-304 fasteners complete. The system shall include powder coated/PVDF coated aluminum finish (minimum 60–80 microns) suitable for exterior application, integrated provision for LED lighting including conduits, fixing arrangements and maintenance access cavity between curtain wall and perforated façade for cleaning and servicing operations. The façade system shall be structurally engineered to withstand wind load, dead load, thermal movement and deflection requirements, including custom dies, EPDM separators, Hilti/Fischer or approved equivalent anchor systems, and all accessories complete in accordance with approved shop drawings and as per Engineer's instructions.	Sft.	228,805		

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Façade 5	Providing, Fabricating and Installing Aluminum Storm Water Louver Panels on Aluminum Curtain Wall Stick System (W-Type) comprising extruded aluminum "W" type fins/louvers of approved profile and configuration, designed for effective storm water management and drainage, including supporting aluminum framework, brackets, anchors, sealants, gaskets, fixing accessories and all necessary hardware complete. The louvers shall be installed in required shapes, sizes and elevations within the curtain wall system, ensuring proper alignment, structural stability, weather resistance and secure fixing, complete in accordance with approved shop drawings, performance specifications and as per Engineer's instructions.	Sft.	18,078		
Façade 6	Design, supply, fabrication, transportation and installation of free-form curved canopy system for drop-off area, comprising structural steel framework and aluminum composite panel (ACP) cladding, forming wave-like architectural geometry, as per approved drawings and specifications. The work shall include MS structural steel frame (beams, curved members, base plates, anchor bolts, connections), designed to withstand all applicable loads (dead, live, wind), including cutting, bending, welding, erection, alignment and complete structural stability. Cladding shall consist of fire-retardant ACP panels 4mm thick with 0.5/0.5mm skin thickness with PVDF coating, fixed over GI sheet backing with Rockwool insulation, including fabrication of single/double curved panels, edge profiles, soffit finishing, and all necessary brackets, cleats and connectors, anti-corrosion treatment (primer/paint or galvanizing), sealants, joints treatment, and finishing works. Provision for integrated LED lighting (concealed strip lights and downlights) along edges and soffit, including conduits and fixing arrangements, shall be incorporated (lighting fixtures payable separately unless specified). The system shall include integrated rainwater drainage through gutters and concealed downpipes within the structure, complete the in all respect and as directed by the Engineer.	Sft	44,000		

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Pixel Façade Lighting					
Façade 7	ST Lighting model High-intensity LED Pixel Light, outdoor rated, individually addressable, suitable for façade/media lighting applications. Each fixture shall be capable of RGBW color mixing with DMX512 control protocol compatibility. Fixture housing to be weatherproof (minimum IP66/IP67) with robust construction for long-term outdoor use. Lights shall be installed at 7 ft center-to-center spacing, ensuring uniform illumination and consistent pixel mapping across the façade. Each pixel to deliver high lumen output with appropriate beam angle (typically 10°–30° as per design) to achieve focused projection and minimal spill	Set	5,050		
IP Rated Silicon rope light					
Façade 8	ST Lighting Silicone Neon Flex RGBW Profile Light, 24V DC, 15 W/m, DMX512 controllable with full RGBW color mixing. High-quality diffused output with dot-free illumination, 120° beam angle. Minimum IP-66/ IP67 rated, UV-resistant silicone body for outdoor use. Complete with mounting accessories, connectors, and compatible DMX control integration.	Rft	5,000		
Façade 9	ST Lighting Silicone Neon Flex RGBW Profile Light, 24V DC, 15 W/m, DMX512 controllable with full RGBW color mixing. High-quality diffused output with dot-free illumination, 120° beam angle. Minimum IP-66/ IP67 rated, UV-resistant silicone body for outdoor use. Complete with mounting accessories, connectors, and compatible DMX control integration.	Rft	1,200		
DMX Controller					
Façade 10	Providing, Supplying, Installing, Testing and Commissioning DMX Master Controller compatible with RGBW pixel façade lighting system, capable of programmable lighting control, sequencing and synchronization, complete with all required interfaces, software integration, wiring and accessories for complete operation as per approved specifications.	No	2		
DMX Sub Controller					
Façade 11	Providing, Supplying, Installing, Testing and Commissioning DMX Sub Controller compatible with RGBW pixel façade lighting system, including communication interfaces, control modules, power connectivity and all associated accessories required for proper integration and operation of the lighting control system, complete in all respects as per approved specifications.	No	9		
				Total Amount (Rs.) =	