

To,
M/s. Innopolis GVRC
Atrium Façade
Hyderabad

Date: 02.12.2024
Ref: AKBG/2024-25/042/R2

Sub: Revised quotation for 4545 West Elevation for your proposed project of Innopolis GVRC, Atrium Façade,Hyderabad.

S.No	Description	Unit	Total Area	Unit Rate	Total Amount
A	ACP Cladding				
A.1	ACP Cladding : Design, engineer, furnish, fabricate, package, deliver (to Job site) and install in tray form with face sealed sealant 4mm thick Composite Aluminium Cladding Non FR Grade with Aluminium sheet alloy AA 3000 or 5000 series fabricated panels of Approved shade of Metal Cladding with Face sealed joint system with sealants DC 789 grade from Dow corning make or approved equivalent. Finishes : as approved by Architect / Client Location : Front Elevation Grid Between B-E	SqM	300	4,757	14,27,100.00
A.2	Roof Coping : Non FR ACP roof coping panel to Facade termination with marine ply backup panels beneath Continuous curtainwall façade Terrace roof termination with Marine plywood backing and insulation to Curtainwall Roof Coping. Coping ACP panel shall have 12mm Thick Marine Grade BWP fixed continuously from below to support the live load of 1KN. Provide primary seal of 1 mm GI sheet & EPDM membrane for Coping. Panel type: 4mm thick Aluminium Composite Panel. Location :Front & Rear elevation	Rmt	103	5,419	5,58,157.00
B	Structural Steel For Support Curtainwall				
B.1	Design, fabricate, package, deliver (to Job site) hoist and install Structural steel Works as Primary and secondary Framing members for Items listed in the BOQ item B,D and Other items in project. Tentative Quantities for Ms Steel Structure for Entrance Canopy. Facade vendor Quantify and Quote for Ms Steel Structure as per approved Structural calculation. Scope Includes 1. Assembly, welding, jointing, building up new sections using plates/rolled sections/CHS/RHS, including cost of fasteners, nuts, bolts and washers 2. Supplying all temporary staging and supporting work and making all structural steel work in accordance with the design drawings. 3. Preparing shop drawings , obtaining Client / Architect / Consultants Approval. Finish: All coating should be factory applied with site touch-up if necessary. Care should be taken to avoid warping or twisting of slender steel sections or fabricated parts. Appropriate cleaning or treatment should be done for surface prior to any further coatings to get smooth finished surface. The rate of steel work should include Option 1 :1(one) coat of red oxide primer and two coats of enamel paint. Option 2 : Primer with 1(one) coat of Zinc Rich Epoxy 50 Microns,Intermediate: Epoxy Micaceous Iron Oxide 125microns and finished with 1(one) coat Polyurethane 50microns Fabrication of following types of structural steel material trusses, purlins, girders, brackets etc. with connections using plates, channels,and angles, gusset plates, connection bolts, cleats, fasteners etc. as per drawing, steel conforming to IS:226 and IS:2062-Gr. A minimum yield strength 335Mpa for plates. Fasteners, welding electrodes, consumables, will not be paid seperately. Rates inclusive of necessary tests as per technical specifications. Rates for items of work in the 'Bill of Quantities' are to be inclusive of all taxes and duties including Customs Duties,, Transportation, Insurance, scaffolding, handling and testing.	Tonne	2	54,000	1,08,000.00

C	Structural Glazed Semi Unitized Curtainwall Facade:				
	Structural Glazed Semi Unitized Curtain wall Facade System: Design, Engineer,fabricate, package, deliver (to Job site) and install Semi Unitized Curtain Wall Structural glazed system with Brackets [Curtainwall system only without glass, refer BOQ item A.2 & A.3 for Vision & Spandrel glasses quoted separately]. The Main Frame and Sub Frame to Designed for Kpa Normal 1.11 and 1.6 Kpa Critical wind loads provide adequate toggle cleats to the subframe based on Glass Panel size as per Structural Adequacy The glass panels comprising of 24mm DGU for Vision and 6mm for SGU Spandrel Glass are to be glazed to Subframe frame with Double side adhesive foam Spacer tape (Norton / Approved Equivalent) and structural silicone of Dow corning / GE make, wherever applicable with all approved standard accessories and hardwares. The main frame to be designed as Rainscreen with provision of EPDM gaskets having 3 barrier gaskets against air and water leakage. The Bracketing at Floor and Ceiling levels to be with Sleeve to accommodate building movements, thermal expansions and the seismic movements. All facade envelope and Interface closures with FR Class A Grade ACP or 2mm Thick SDP Coated Aluminium Sheet No extra claims shall be entertained at any stage for aluminium profile wall thickness / size dimensions / Seals / Trims / Flashing / Smoke & Fire Seal etc once approved by the Architect. The Contractor shall be responsible for the detailed engineering design development and the provision of all plant, labour, material, fabrication, assembly, transportation, installation, coordination with adjacent and abutting construction, and any other endeavour necessary to provide complete curtain wall. The Scope includes provision of the following in the Semi Unitized Curtainwall System 1. Fixing of coping at Terrace levels and Sealing the Curtainwall at the top / sill with Hard primary & Flexi-secondary Seal wherever required. 2. Curtainwall profiles to be designed with edgeguards for the glazed panels perimeter 3. Curtainwall system to have an extruded Corner Mullion 4. Structural sealant bite size to be as per Approved structural calculations 5. All curtainwall Transom section sizes shall be same as the Mullion section depth. 6. The Aluminium flashing seals at the Building expansion joints interfacing the Curtainwall facade. 7. Operable Vent to have main frame and subframe without aluminium profile being seen from outside. 8. Make provision in the Curtainwall system for the fixation of Facade Lighting. 9. Fixing of vertical/ horizontal flashings/ sealing & side wall closure, above Spandrel transom at False ceiling level and wherever required facade envelope closures with FR Grade class A Grade ACP or 1mm Thick SDP Coated Aluminium sheet. No extra claims shall be entertained at any stage for aluminium profile wall thickness / size dimensions / Seals / Trims / Flashing / Smoke & Fire Seal etc once approved by the Architect / Client. The Contractor shall be responsible for the detailed engineering design development and the provision of all plant, labour, material, fabrication, assembly, transportation, installation, coordination with adjacent and abutting construction, and any other endeavour necessary to provide complete curtain wall.				
C1	Aluminium: All aluminum extruded profiles shall be confirming to alloy 6063 T6. Where Extruded Aluminium brackets and other Structural elements are proposed they shall be confirming to alloy 6005 T6. Finish: All exposed visible aluminum profiles external and internal areas of the Facade shall be Super Durable powder Coated to 50-60 Microns as per approved shade. Glass: (Glass price to be provided separately as mentioned below items: A.2, A.3,A4 for Vision glazing) Vision Glass - Semi Unitized glazing system shall be designed to accomodate 24mm DGU & 6/8mm thick SGU Performance Heat Strengthened glass. Vision Glass - Monolithic SGU Heat Strengthened Glass -Single glazing adapter aluminium extruded profiles. Wind Load : The System and glass shall be designed to 1.11 Kpa for Normal areas and 1.6 Kpa Critical areas as per structural adequacy as per IS 875 part 3 . Anchorage: Design to allow absorption of 3 dimensional construction tolerances to maintain set out as per arch dwgs and approved shop drawings. The anchoring / bracing of the curtain wall glazing to the RCC slab / beams / columns shall be done with hot dip galvanized brackets(Galvanizing to be done confirming to IS:4759-1996 up to 610 gms. per sqm. (80-90 micron thickness). of approved design.	SqM	146	5,650	8,24,900.00
D	Spandrel SGU Glass : (Extra Over item: C.1) Type - GL2: - 6mm thick Monolithic SGU Heat Strengthened Glass - shade to match with the Outerlite of GL1 Vision glass. Please note that the Glass thickness of the proposed Spandrel glass shall be as per the Structural adequacy. Location : Rear Elevations at slab Area	SqM	146	2,400	3,50,400.00
Total Façade Areas and Total Amount for Cladding,Structral Glazing & MS works		Sqm	Value including GST		32,68,557.00

- Note** 1.The above quantities are approximate only, however the final bill will be made as per the actual site measurements.
2. Any further taxes levied on this work by the government with the amendment in the act effective, retrospectively will be charged extra.

Note: Due to the unprecedented market dynamics, this year has seen extraordinary pressures on the prices of our raw material & other input costs. Such as Aluminium, Glass, Silicon, Aluminium Composite Panel and Hardware Etc. The offer price shall be finalized on the day of confirmation of order and advance payment.

PAYMENT TERMS

- Payment: 25% Advance along with the work order.
55% on the receipt of material at the site.
20% on completion of the work.

1. We have quoted as per information received and in reply to the specification only, any modification will require corresponding revision of rates.
2. Tolerance and forms for flat Toughend glass.
 - a. Deviation of form +/- 3mm
 - b. Straightness of edge < 3mm /m
 - c. Twisting < 4mm / m
3. All the final glass measurements/sizes will be taken + 50mm (In both Widht & Height) as standard to the actual glass measurements/sizes.
4. Deliveries will be made against Delivery Challans which the client/client's representative has to acknowledge.
5. The liability for safe keeping of material delivered at site lies with the client's scope.
6. Lockable room to be provided by client at site for safe storage of material, tools & workmen.
7. Electrical connection to be provided by client wherever necessary at site.
8. Any civil defects to be rectified by your person at your cost.
9. **Scaffolding to be provided by client wherever necessary at site.**
10. Sealing the gaps between the masonry structure and aluminium frames do not fall under our scope of work.
11. MS Frame if necessary to be provided by you or by us at an extra cost.
12. You should ensure necessary plumb levelled flooring & roofing.
13. Quotation validity 30 Days.

We at **AKB Glass Systems** are committed to customer care and shall always be available to attend to any kind of assistance requested.

Thanking you and assuring you of our best services at all times.

Yours faithfully,
For AKB Glass Systems



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