

Birla Industrial & Technological Museum

(National Council of Science Museums, Ministry of Culture, Govt. of India)

संस MI CL

19A, Gurusaday Road, Kolkata - 700 019

Sub: Installation of frameless glass covering with door at Indira Gandhi Planetarium, Patna.

 for frameless withstand the AS1288 2006 Spider Fitting with glass pattogether with with toughene stabilizers shat stiffness again stream line de better aesthet casting procesing glass panel as SS- 316 Grad bottom using bolts, non statistication bushes and see perform as pattoring accommodate. The joints biperimeter & staining weath proof & dust patch fittings 38 and BTS fittings 38 and BTS fittings should fixers, nut bol laminated glatelevation are portion of Glathardware acca AUSTAVISIC 2.0 Applying Int brand on plas Distemper/ A the surface th and as per dir Water based i 3.0 Applying Acta Compound) of the surface than a super direct of the surface than a super direct based in the surfa	Description of item	Of	Unit	Dete	Amount
 for frameless withstand the AS1288 2000. Spider Fitting with glass pattogether with with toughene stabilizers ship stiffness again stream line de better aesthet casting procesing glass panel as SS- 316 Grad bottom using bolts, non stai bushes and se perform as partitings should direct bearing accommodate The joints b perimeter & staining weath proof & dust patch fittings 38 and BTS fitting should direct bearing accommodate and the staining weath proof & dust patch fittings 38 and BTS fitting should fire test/ 500 include all de from structura charges inclu fixers, nut bol laminated gla elevation are portion of GE hardware acc AUSTAVISIO 2.0 Applying Int brand on plas Distemper/ A the surface th and as per dir Water based i 3.0 Applying Act Compound) of the structure of GE hardware acc AUSTAVISIO 	Description of item	Qty.	Unit	Rate	Amount
 2.0 Applying Int brand on plas Distemper/ A the surface th and as per dir Water based i 3.0 Applying Act Compound) 	Design, supply & installation of suspended Spider Glazing system for frameless glass faced with single leaf glass door, designed to vithstand the wind pressure as per IS 875 (Part-III) & fulfilling AS1288 2006 codal requirements. The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer vith glass panel having 12 mm thick clear toughened glass held ogether with SS-316 Grade Stainless steel Spider & bolt assembly vith toughened/ laminated glass fins of required thick. Glass fins as tabilizers shall be used at each vertical joint to provide lateral tiffness against wind loading. The spider fin fittings shall have a tream line design with twirl arm for high strength performance and better aesthetics. The spider shall be manufactured by investment asting process of grade SS-316 as per EN norm. The Glass fins and class panel assembly shall be connected to Slab/ beams by means of SS-316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon ushes and separators to prevent bi-metallic contacts, all complete to ereform as per specification and approved drawings. All spider fittings should be designed to support the weight of the glass by lirect bearing on the bolts and the complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non taining weather sealant, so as to make the entire system fully water troof & dust proof. One single leaf glass door of 1.2 m opening with atch fittings such as PT 40, 10, US 10, PT 24, pull handle 1200 x 48 and BTS 75V floor spring conforming to DIN EN 1154 in long- ime test/ 500000 operating cycle has to be provided. The rate shall nelude all design, Engineering and shop drawing including approval form structural designer, labour, T&P, scaffolding, other incidental harges incl				
brand on plas Distemper/ A the surface th and as per dir Water based i 3.0 Applying Act Compound)	AUSTAVISION/ SADEV/ STANLEY make.	65	Sqm.	8,500.00	5,52,500.00
3.0 Applying Act Compound)	Applying Interior grade Acrylic Primer of approved quality and orand on plastered or concrete surface in old or new work to receive Distemper/ Acrylic emulsion paint including scraping and preparing he surface thoroughly, complete as per manufacturer's specification nd as per direction of the EIC at any floor.		Jyiii.	6,500.00	5,52,500.00
Compound)	Vater based interior grade Acrylic Primer One coat.	50	Sqm.	30.80	1,540.00
Easy clean) additional coa	Applying Acrylic Emulsion Paint, having VOC (Volatile Organic Compound) content less than 50 grams/ liter, of approved make and orand (Asian Paints Apcolite/ ICI Dulux Super Clean 3 in 1/ Berger Easy clean) on walls, columns, ceiling etc. including applying dditional coats wherever required, to achieve even shade and colour. <i>Two or more coats</i> with Luxury Quality.		Sqm.	102.59	5,129.50

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
		50	Sqm.	109.49	5,474.50
Basic value of the work =					
Add GST @18% over basic value of work =					
Cost of work including GST =					
Add Labour welfare cess @1% over cost of work including GST =					
Gross value of work including GST @18% & LWC @1% =					

NOTE :

- 1 Tenderers should visit the site before quoting the rate to understand the nature of work and condition of the site.
- 2 Rates shall be quoted inclusive of all materials, **wastage**, labour, shifting charges, **taxes & duties** etc. required for this job. No additional payment shall be done by the BITM for this purpose.
- 3 The work shall be required to carry out without obstructing the visitor's movements and may also be required to carry out beyond office hours (if required) for which no additional payment shall be made.
- 4 The work will be carried out after following all respective precautionary measure and safety rules. Expenditure towards insurance coverage for the labourers working at site has to be included in the rate.
- 5 The successful tenderer has to submit the design, engineering and shop drawing including approval from structural designer before execution at site. No additional payment shall be done by the BITM for this purpose.
- 6 All the Exhibits & equipments installed in the gallery shall be covered with polythene sheets properly and/or may be needed to shift at the own cost of successful tenderer.
- 7 Regarding the work directives of the Engineer-in-Charge shall be final and binding.
- 8 All materials must be approved by the Engineer-in- Charge before supplying at site. *List of Approved materials* :
 - i) Clear Glass: Saint-Gobain, Modiguard, Asahi (AIS).
 - ii) Hardware accessories & spider fittings: DORMA/ AUSTAVISION/ SADEV/ STANLEY.

Signature of the Contractor