

TENDER NO: 6300036838

Date: 02.12.2021

ISSUED TO:

Period of
contract:

03 Months

EMD :

Rs. 31,840/-

Sub: Providing Aluminium partition, false ceiling, epoxy flooring , entrance canopy, and other Civil works at Aerospace Assembly Hangar, Bangalore Complex, BEML Limited, Bangalore. .

SCHEDULE 'A' - BILL OF QUANTITIES

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
1	Dismantling of the existing RCC columns in first floor including disposal of unserviceable materials etc., complete all as specified and as directed by Engineer in charge. Note: The dismantled materials shall be removed immediately without disturbing the regular production activities etc.	Cum	0.30		
2	Preparing the existing old concrete surface by scarification removing all loose materials, oil grease, moisture, grinding the floor, cleaning and applying a coat of primer with 3mm thick high build epoxy screed for floor surface and filling up the holes, dents with epoxy material to get a level surface. The application should be carried as per the standard specifications and manufacturer's instructions in specified color and pattern etc.,complete all as specified and directed by Engineer-In-Charge.	Sqm	150		
3	Preparing the epoxy screed surface by grinding the surface removing dust and applying two coats of high build epoxy resin of 500 microns. The application should be carried as per the standard specifications and manufacturer's instructions in specified color and pattern etc.,complete all as specified and directed by Engineer-In-Charge.	Sqm	150		
4	Supplying, Fabricating, erecting & fixing in position MS Structural steel work for entrance canopy, roof frame & Windows frame by using MS Angles, Flats, Square tubes, channels etc, at any elevation/heights including applying two coats of synthetic enamel paint over a coat of red oxide/ zinc chromate primer manufactured by M/s Asian Paints/Berger etc., complete all as specified and directed by Engineer-In-Charge. Note: The rate quoted for the item deemed to include for a) Labour, welding machine, welding rods, Gas, consummables. b) Providing & removal of scaffolding using wooden/steel props, staging etc. c) Wastages.	MT	3.60		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
5	Supplying & fixing M/s. JSW/TATA make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue) sheeting 1060mm supply width, 975mm-1000mm covered width 29mm-30mm crest height, 24mm crest width with minimum 195mm-200mm pitch in 0.60mm thick TCT Galvalume(55% aluminum-43%Zinc Coating) 150 GSM with 550 Mpa with a minimum lap of 200mm with wide pans with stiffening ribs for efficient water shedding & special male/female ends with full return leg on one lap for purlin, conforming to relevant IS including all hardware/fixtures like colour matched nylon head self tapping corrosion protected mechanically galvanised fasteners with integral washer etc , complete all as specified and as directed by Engineer in charge. Note: The finished/Covered area of roof sheet excluding lap length shall be measured for payment.	Sq.M	75		
6	Supplying and fixing/installing new powder coated aluminium partitions of approximate height 3.0 m using standard aluminium sections manufactured by M/s. Jindal/ Hindalco/ Indal/ equivalent make, conforming to relevant IS, comprising of rectangular hollow tubes measuring not less than 63.5mm x 38.10mm x 2.50mm for outer frame, verticals and horizontals. The minimum thickness of the powder coating shall be 50 microns. The centre to centre distance between the vertical members shall not be more than 1.2 m approximately. The bottom and top panels of the partition shall have a height of 0.95 m approximately and shall be fixed with 12mm thick both sides decorative prelaminated particle board of approved colour and shade conforming to relevant IS manufactured by M/s.Archid/ Kitply/ National/Greenply. The middle panel of the partition for an approximate height of 1.10 m shall be fixed with 5mm thick plain / frosted glass conforming to relevant IS manufactured by M/s. Modiguard / SaintGobain, including necessary hardware and accessories viz., EPDM rubber / neoprene gaskets, snap beading, aluminium glazing clips, screws, etc., complete as per site conditions and all as specified and directed by Engineer in charge.	Sq.M	80		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
7	<p>Supplying and fixing new powder coated aluminium single leaf openable /sliding door of approximate height 2.10 m using standard sections manufactured by M/s. Jindal/ Hindalco/ Indal/ equivalent make, conforming to relevant IS.</p> <p>The top, middle and side members of openable door shall comprise of sections measuring not less than 50mm x 44.50mm x 2.50mm. The bottom panel shall comprise of sections measuring not less than 101.60mm x 44.45mm x 2.50mm. In case of sliding door, heavy duty sliding channel of standard section along with roller wheels, gear box etc., shall be fixed for smooth sliding of the door panel. The minimum thickness of the powder coating shall be 50 microns.</p> <p>The bottom panel of the door for a height of 0.95 m approximately shall be fixed with 12mm thick both sides decorative prelaminated particle board of approved colour and shade conforming to relevant IS manufactured by M/s.Archid/Kitply/ National/Greenply.</p> <p>The top panel of the door for an approximate height of 1.10 m shall be fixed with 5mm thick plain / frosted glass conforming to relevant IS manufactured by M/s. Modiguard/ Saint Gobain, including necessary hardware and accessories viz., EPDM rubber / neoprene gaskets, snap beading, aluminium glazing clips, screws, handles, locking arrangement, floor spring of approved brand manufactured by M/s. Dorma/Everite/Hardwyn etc., complete as per site conditions and all as specified and directed by Engineer in charge.</p>	Sqm	5		
8	<p>Rendering/Plastering 15mm thick in Cement Mortar 1:4 on fair faces on brick or concrete surfaces including finishing the surfaces even & smooth, curing etc., complete all as specified and directed by Engineer in charge.</p> <p>Note: The rate quoted for the item deemed to include for</p> <p>a) Providing & removal of scaffolding using wooden/steel props, staging etc. b) Wastages.</p>	Sqm	10		
9	<p>Supplying and Laying 20mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad/equivalent approved make, laid in required length, gradient in walls, flooring & trenches including all standard fittings such as elbows, collars, Tees, MTA, FTA etc. complete all as specified and directed by Engineer-in-charge. Note: The rate quoted for the item deemed to include for a) Providing & removal of scaffolding using wooden/steel props, staging etc. b) Wastages.</p>	Rmt	80		
10	<p>Supplying and fixing 15 mm diameter brass chromium plated angle/ Stop cock of first quality manufactured by M/s.ESS /Parryware/Johnson/ Hindware conforming to relevant IS including necessary hardware/accessories etc., complete all as specified and directed by Engineer in charge.</p>	No	2		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
11	Providing & fixing 110mm dia. PVC class 2 pipes (6kg/cm ²) manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for waste water, rain water including all standard fittings/accessories like elbows, bends, tees, tail pieces & fixtures such as pipe clips, clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in charge.	Rmt	10		
12	Supplying and fixing coloured dado ceramic wall tiles minimum 350mm x 250mmx7mm thick or bigger size laid over a backing coat of Cement Mortar 1:4,15mm thick manufactured by Johnson /Naveen/Kajaria/Somany or equivalent approved make and joints neatly finished and pointed with jointing powder of matching colour pigment including curing etc., complete all as specified and directed by Engineer-in-Charge. Note: The rate is deemed to include for a) Providing a dubbing coat of 10mm thick in CM 1:6 on irregular face of walls. b)Wastages.	Sqm	2		
13	Supplying and fixing white vitreous chinaware wash hand basin of 600mm diameter approximately or approved size manufactured by M/s. Parryware/ Hindware/Cera/equivalent approved make conforming to relevant IS, including all accessories such as waste coupling, PVC connection pipe of length 450mm, angle cock / stop cock, rack bolts for fixing etc., all lead, lift, tools, labour etc., complete all as specified and directed by the Engineer-in-charge.	Nos.	2		
14	Supplying and fixing 20mm thick polished black Granite slab for platform and jointed neatly with cement mortar and pointed with black oxide or coloured cement compound to match the colour of granite including front/side edges bull nosed etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted for the item deemed to include for wastages.	Sq.M	1.20		
15	Supplying and fixing 15mm dia brass chromium plated pillar cock of first quality conforming to relevant IS manufactured by M/s.ESS /Parryware/ Hindware/ equivalent approved make including necessary accessories etc., complete all as specified and directed by Engineer in charge.	Each	2		
16	Supplying & fixing PVC SWR Gully trap 125/110mm of M/s.Supreme / Astral/equivalent make including jointing with solvent cement.etc., complete all as specified and directed by Engineer in charge.	Each	2		
17	Supplying & fixing 100mm diameter chromium plated grating of reputed manufacturer conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	Each	2		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
18	Providing and fixing 12 mm thick Tiled false ceiling manufactured by M/s. Armstrong/ Saint Gobain or equivalent brand, in true horizontal level suspended on inter locking Gyproc Matrix metal grid of hot dipped galvanized steel sections. PPGI wall angle 24x24x0.4mm is fixed along the perimeter of ceiling to walls. 1200mm x 1200mm grid Main "T" runners (Materials-GI(IS513), YS-260Mpa, Finish-Galvanised 120GSM (IS277) are then suspended from ceiling using 4mm GI adjustable rods with Galvanised butterfly level clips of size 85 x 30 x 0.8mm/required material as per site conditions to be used spaced at max 1200mm centre to centre along main T and not more than 150mm for spliced joints. The last hangar at the end of each main runner should not be greater than 600mm from the adjacent wall. 1200mm long cross T (Material-GI(IS513), YS-260Mpa, Finish-Galvanised 120 GSM(IS 277) is interlocked between the main T at 600 mm c/c to form a grid of 1200x600 mm and than secondary cross "T" (Material-GI(IS513), YS-260Mpa, Finish-Galvanised 120GSM(IS277)) of length 600mm is than interlocked at middle of the 1200x600mm grid to form grids of 600x600mm. Cross Tees at the ends having length more than 600mm are to be supported independently. Finally 12.5mm thick Gyproc gypsum tile of size 595x595mm is placed in grid.	Sqm	60		
19	Supplying and fixing in wall 20 mm thick polished black granite slab for steps with front edge bull nosed over a bedding layer of 15 mm thick in cement mortar 1:6 etc., complete all as specified & directed by Engineer in charge. Note: The rate quoted for the item deemed to include for wastages.	Sq.M	15		
20	Cutting holes in brick walls built in cement mortar and making good the dismantled portion with cement mortar 1:3 to match with the adjoining surfaces including curing etc., complete all as specified and directed by Engineer in charge.	Nos	2		
21	Providing & constructing 230 mm thick Burnt brick masonry of required thickness in Cement Mortar 1:6 with first class table moulded bricks including necessary curing etc., complete all as specified and directed by Engineer in charge.	Cum	0.50		
22	Dismantling the existing old broken glass fixed to windows without further damage & stacking of serviceable materials at a place as shown by BEML including disposal of unserviceable materials etc., complete all as specified and directed by Engineer in charge.	Sqm	300		

Sl. No.	Description	Unit	Qty	Rate/ unit in fig. & in words (Rs).	Amount (Rs)
23	Supplying and fixing M/s. Bayers / JSW/ Everest make plain 2mm thick uniform thickness polycarbonate sheet for windows conforming to relevant IS with necessary hardware screws/washers and sealant, sheets fixed to MS structural frames etc., complete all as specified & directed by Engineer in charge. Note: The MS Structural steel shall be measured & paid separately under relevant item.	Sqm	300		
24	Carting away unwanted and unusable excavated soil, debris outside the site premises to a distance not exceeding 5.00KM, dumping at a place not objected by any civil authorities, including all lead and lift etc., complete all as specified and directed by Engineer in charge.	Cum	0.50		
25	Supplying & fixing 25 Micron suncontrol film to the existing glass of first quality approved brand manufactured by M/s. 3M/ Garware or equivalent approved make etc., complete all as specified and directed by Engineer in charge.	Sqm	30		
NOTE: (1) The bidders shall visit the site and acquaint themselves with the site conditions before submission of tender.					
(2)The rate quoted for all the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary as per site conditions.					
	Total Value of work excluding GST (Rs)			Rs.	
	GST			Rs.	
	Total Value of work inclusive of GST			Rs.	

(Total Amount in words Rupees.....)

Signature of the Contractor
with seal