

**PROJECT: CORRIDOR MODIFICATION BETWEEN PRIMARY AND SECONDARY PLANT FOR HLL LIFECARE LTD AT KANGALA DIST,BELGAUM**

**BOQ - CIVIL WORKS**

Sl. No	DSR Item No.	DESCRIPTION OF WORK	Qty	Unit	Rate (In Rs.) In Figures	Rate (In Rs.) In Words	Amount (In Rs.) In Figures	Amount (In Rs.) In Words
1	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, including the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	11.00	Cum				
2	5.22A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars	1,620.00	Kg				
3	Derived 6.4.2	Brick work common burnt clay FPS (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level in all shapes and sizes in Cement Mortar 1:6 (1 cement : 6 coarse sand)	27.00	Cum				
4	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	305.00	Kg				
5	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	39.00	Sqm				
6	13.4.1	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	65.00	Sqm				
7	13.60.1	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	700.00	Sqm				
8	13.61.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : : Two or more coats on new work	72.00	Sqm				
9	13.80	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.	700.00	Sqm				
10	14.4.1	Making the opening in brickmasonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jams complete, to match existing surface i/c disposal of mulba/rubbish to the nearest municipal dumping ground - For door/window/clerestory window	41.00	Sqm				
11	14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	758.00	Sqm				

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12	15.12	Dismantling doors, windows and clerestory windows (Steel or Wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead						
a	15.12.1	Of area 3 Sqm and below	3.00	Each				
b	15.12.2	Of area beyond 3 Sqm	8.00	Each				
13	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates,bolts, nuts, cutting rivets, welding etc including dismembering and stacking within 50 meters lead	243.00	Kg				
14	15.57	Dismantling aluminium/gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	16.00	Sqm				
15	21.1.1.3	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion. Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	256.00	Kg				
16	21.1.2.3	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	151.00	Kg				
17	21.3.1	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.00 mm thickness	17.00	Sqm				
18	26.1	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. ( The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).	138.00	Kg				

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19	26.7	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats,weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in	69.00	Sqm				
20	16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	292.00	Sqm				
		<b>Total</b>						
		<b>LMR</b>						
21	LMR	Supply and Installation of clean room false ceiling of minimum 50 mm Thickness. Both side Epoxy Powder coated (60-80 microns) 0.8mm thick G.I sheets with EPS as infill of density not less than 16 Kg/m3 .T Necessary stiffners to be provided as per manufacturer's standard and complete in all respects including, supports, hangers, sealants, etc.. Ceilings measurement shall include cutouts for HEPA filter box housings, Diffusers, Light fittings, Pendants & Utilities as indicated in the drawings. including R 50 Extruded aluminium coving and require 3D aluminium corner piece Note: 1.All ceiling joints and gaps between panel to panel, celing elements (such as HEPA module, diffusers, pipe & electrical drops etc.) etc. to be sealed using FDA approved food grade silicon sealant. 2.Colour of the ceiling panel: Bright White (RAL 9010) - Semi-mat or as decided by client 3.Joint width between panels shall not exceed 3mm. 4.Seperate quantities for the ceiling cutouts	292.00	Sqm				

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22	LMR	Supply and erection of Approved make of any size as specified below: MATERIAL Door Frames and Leaves are made from Galvanized Steel. DOOR LEAVES Constructed from 0.80mm Thick Galvanized Steel Sheet formed to provide a 46mm thick fully flush, double skin door shell with Lock Seam joints at stile edges. In-fill of Honeycomb Kraft Paper is used to give the required rigidity and effective acoustic and thermal insulation. DOOR FRAMES Produced from 1.20mm (18G) thick galvanized steel sheet formed to single rebate profile of size 100mm X 57mm. The Door Frames may be built into the brick or block walls using corrugated "TEE" anchors not welded to the Frames (First Fix). Frames may also be fixed on plastered openings with the help of Anchor Fasteners (Second Fix). Door Frames are supplied to knockdown from with butt joints for Bolted Assembly at site. VISION GLASS Rectangular Vision Glass of 5 mm thick can be provided in various sizes depending on end users requirements such as 200mm X 300mm, 350mm X 750mm & 450 X 750 mm. The Vision Glass shall be fixed flush to both faces of the door to provide ease of cleaning a						
		cleaning and maintenance. No crevices / joints / sloped profiles are used for fixing the glass thus avoiding particle contamination and dust accumulation.LIMITATIONS ON VISION GLASS (FOR NON STANDARD SIZES): Height not exceeding 750mm, Width not exceeding 450mm, however, the vision glass width shall be 300mm less than that of the shutter width. FINISH The door frames and door shutters are finished with Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability which is also of Anti-static quality. IRONMONGERY HINGES SS Ball bearing butt Hinges 3 MM thick, fixed flushed to the frame and shutter. LOCK Mortise Sash Lock with Lever Handles,push plate, Mortise Dead Bolt, Mortise Latch, Panic Devices etc to be provided as required. FLUSH BOLTS (DOUBLE DOOR) Concealed extended lever action flush bolts provided on the top of the door to the leading stile edge. Door Closers, OPTIONS Exit, Electro Magnetic Hold Open Device, Door Coordinator, Smoke Seals for Air tightness, Automatic Door Bottoms etc., to be provided .						
a		Door Size - 1200 mm X 2100 mm - Single Leaf	4.00	Each				
b		Door Size - 1500 mm X 2100 mm - Double Leaf	5.00	Each				
23	LMR	Supply and Installation of clean room wall panels of minimum 50 mm Thickness. Both side Epoxy Powder coated (60-80 microns) 0.8mm thick G.I sheetsb with EPS as infill of density not less than 16 Kg/m3 .The clean room panel should meet the Euro classes minimum reaction to fire B-s3,d0. Necessary stiffners to be provided as per manufacturer's standard and complete in all respects including built in risers with SS304 perforated return air grilles, Aluminum dampers & G4 synthetic washable filters.Wall panel shall include in-built stove enamelled MS conduits for electrical cabling, cut-outs for sockets & switches, Magnehelic Guages,Passboxes,Telephone and data sockets, etc. The entire wall panel assembly shall include Aluminium angluar connectors between wall panels, Base runners (Nylon or powder coated G.I) and 2way ,3way & 4way modular panel junction connectors, etc. (In case the vendors specification are different - vendor to provide details). Do refer to the technical specification provided in the tender. Note: 1.All wall joints and gaps between panel to panel,wall elements(magnahelic guage, electrical sockets, telephone& data sockets) etc.to be sealed using FDA approved food grade silicon sealant. 2.Colour of the wall panel: - Semi-mat or as decided by client	60.00	Sqm				

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