

**PROVIDING AND FIXING OF STEEL WORK, SHEET
BARRICATION, PLUMBING WORKS, HOME
APPLIANCES AND ELECTRICAL WORKS AT TYPE –
IV QUARTERS, JIPMER PUDUCHERRY**

Volume- IV

BILL OF QUANTITIES

Tender No: HLL/IDD/CHN/18-19/012

Dated: 22nd August 2018



HLL LIFECARE LIMITED

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Tender No. HLL/IDD/CHN/18-19/012							
Bill of Quantities							
Name of Work: Providing and fixing of Steel work, Sheet barriers, Plumbing work, Home appliances and Electrical works at Type IV , at JIPMER, Puducherry.							
S No	DSR/ LMR	Details	Unit	Qty	Rate in Figures	Rate in Words	Amount
1	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	648.00			
2	2.28.1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. All kinds of soil	Sqm	1,296.00			
3	2.33.1	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth upto and including 60 cm girth	Nos	20.00			
4	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	Cum	59.28			
5	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	972.00			
6	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	Cum	35.45			
7	6.1.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	45.51			
8	13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	Sqm	354.65			
9	10.16.3	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes	Kgs	8,664.22			
10	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kgs	6,646.32			

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11	12.5	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	972.00			
12	13.84.2	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	Sqm	805.35			
13	18.8.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal outer dia Pipes	Mts	60.00			
14	18.8.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 25 mm nominal outer dia Pipes	Mts	60.00			
15	18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	Nos	6.00			
16	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	1,086.00			

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17	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	1,086.00			
18	25.7	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 an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.	Sqm	27			
19	2.10.1	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	Nos	8.00			
20	2.10.2	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole with neutral	Nos	8.00			
21	1.14.2	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2 x 2.5 sq.mm + 1x 2.5 sq.mm earth wire	Nos	30.00			

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22	1.14.3	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2 x 4 sq.mm +1x 4 sq.mm earth wire	Nos	30.00			
23	1.10.3	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium Type PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm, FRLS PVC insulated copper conductor single core cable etc. as required. Group C	Nos	6.00			
24	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Nos	6.00			
25	1.18.2	Supplying and drawing 2 pair, 0.5 sq mm FRLS PVC insulated copper conductor, un armoured telephone cable in the existing surface/recessed steel/ PVC conduit as required: 2 Pair	Mts	45.00			
26	1.24.6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. : Telephone socket outlet	Nos	1.00			
27	LMR	Supply of refrigerator, dimensions 600x1715x722mm. Top freezer type, with a 3 star rating. Capacity-340 litres. Inclusive of stabilizer, fridge stand all accessories complete. Make: Samsung	Nos	1.00			
28	LMR	Supply of washing machine, front loading, fully automatic, 8kg capacity inclusive of Hose Drain, Hose Inlet, Warranty Card, User Manual, Shutter (Rat Mesh), Clip Ring, Screw Fitting and all complete. Make: Samsung	Nos	4.00			
29	LMR	SITC of reverse osmosis plant, capacity-50lph. Booster pump-02nos. Membranes	Nos	2.00			

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30	LMR	Supply & fixing of Wash basin size:525x455x140mm, colour-white. Ceramic. Make-hindware, jaquar & parryware	Nos	4.00			
31	LMR	Geyser capacity 3L capacity Make: Bajaj, Racold, Crompton	Nos	27.00			
32	LMR	Supply & fixing of Health Faucet (Brass) with Double Lock 1m Brass Plated Flexible Hose & Wall Hook. Make-Hindware, jaquar & parryware	Nos	27.00			
33	LMR	Supply & fixing of two way bib tap Dimensions : 16.5 x 12.7 x 11.2 cm, Weight : 0.9 Kg, Spindle Size : M22x1.5P. Make: Hindware, Jaquar & parryware	Nos	27.00			
34	LMR	Supply & installation of Samsung LED TV 49" incl. all installation accessories, stabilizer and TV set top box with one year subscription	Nos	1.00			
35	LMR	Supply of IP 65 rated corrosion resistant, impact proof with PC housing-LED 40 W (Tube light)	Nos	6.00			
36	LMR	Supply & fixing of PVC 1/2 module surface mounting box	Nos	1.00			
37	LMR	Supply and fixing of Face plate 1/2 module	Nos	1.00			
38	LMR	Provision of casing capping unit 1 1/2 inch	Metres	100.00			
TOTAL AMOUNT EXCLUDING GST							
GST @12%							
GRAND TOTAL INCLUDING GST							

**END OF VOLUME -
IV**