

**PROPOSED WORKS FOR DEMOLISHING & DISPOSAL
OF OLD BUILDINGS, PROVIDING BADMINTON
COURT & RAMP WITH GI ROOF FOR COUNTER IN
RAMANATHAPURAM CAMPUS, JIPMER,
PUDUCHERRY**

**Volume- IV
BILL OF QUANTITIES**

Tender No: HLL/IDD/CHN/19-20/033

Dated: 31st January 2020



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Bill of Quantities						
Tender No: HLL/IDD/CHN/19-20/033 dt. 31.01.2020						
Name of Work: Proposed Works for Demolishing & Disposal of Old Buildings, Providing Badminton court & Ramp with GI roof for counter in Ramanathapuram Campus, JIPMER, Puducherry.						
S.No.	Description	Unit	Quantity	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
1	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	1116.25			
2	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	515.99			
3	"Disposal of moorum/ building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-Charge.	cum	515.99			
4	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	116.25			
5	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	25.06			
6	20 mm cement plaster :					
	1:4 (1 cement : 4 fine sand)	Sqm	241.85			
7	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	12.96			
8	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer-in-Charge.					
	60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern.	Sqm	520.37			
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	24.38			

10	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	26.55			
11	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.					
	On concrete work	Sqm	118.52			
12	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required					
	Upto 35 sq. mm	Mtr	80.00			
13	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required	Mtr	80.00			
14	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
	40 mm thick with 20 mm nominal size stone aggregate	Sqm	111.50			

15	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-incharge,(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	220.00			
16	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.					
	Hot finished welded type tubes	kg	310.00			
17	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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.					
	1.00 mm thick with zinc coating not less than 275 gm/m ²	Sqm	15.00			

18	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					
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	15.00			
19	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)					
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	15.00			
20	Providing and fixing 12 mm thick prelaminated particle board flatpressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.					

	Pre-laminated particle board with decorative lamination on both sides	Sqm	0.80			
21	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 5.50 mm thickness	Sqm	0.80			
22	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
	Two or more coats on new work	Sqm	15.00			
23	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 class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	Point	4.00			
24	Installation, testing and commissioning of pre-wired, fluorescent fitting I 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.	Each	4.00			
25	Providing and fixing of badminton nets along with MS posts including civil works , etc, all complete. Badminton nets should measure 5-feet high from the center of the court and 5-feet, 1-inch high where the net attaches to the poles. The depth of the net should be 2-feet, 6-inches and the thickness of the net should be somewhere between 0.5 inches and 0.8 inches and made of nylon.	Set	1.00			

26	Supplying, hosting and fixing of approved quality and design precast reinforced cement concrete 3 seater garden mouldings chair. The rate shall include all transport, loading and unloading, etc, complete as per direction of Engineer - in - cahрге	Each	4.00			
27	Supply & installation of Hot dipped Galvanised (internally and externally), seamless, octogonal pole of overall length 6M with single arm bracket of min 1 m length 48mm dia x 3.25mm thick with standard arm cap. The pole shall have inbuilt cable loop in loop out with flush door and locking facility. The bottom dia of the pole shall be 135mm and top 70mm with 3mm sheet thickness. The pole shall be with base plate of 200x200x12mm and 4nos required size of foundation bolt. The pole shall be mounted on suitable size foundation (design to be got approved) with baseplate arrangement and provided with 6A SP C curve MCB, loop in loop out terminals block, required dia GI / PVC pipe shall be provided in the foundation for taking cable in & out from the pole, 3Cx4Sqmm flexible copper cable from loop in loop out to light fixture etc with all required accessories including fixing pole on cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) foundation of 400 mm dia and 650mm depth (200 mm above ground level) with base layer o'f 150 mm thick 1:4:8 cement concrete (1 Cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size) , grouting 4 nos of foundation bolt nut including excavation, refilling etc., complete. The design of the foundation to be got approved from Engineer-in-charge before execution.	Job	4.00			
28	Supplying of 4 X 10 sq.mm XLPE insulated and PVC sheathed armoured aluminium conductor power cable of 1.1KV grade	Mtr	80.00			

29	Supplying, installation, testing and commissioning of approved make LED sports Flood light luminare with die cast aluminium housing and toughened glass cover of IP66 protection (minimum),with 100 watts LED light fittings, complete with all accessories and drivers & heatsink etc., on brackets on existing street light poles (Make: Havells JETAIRISFLS100WLED757ASY MLTG or equivalent as per approved makes)	Nos	4.00			
30	Supplying and fixing of 24 Watts LED batten with Aluminum housing & integrated electronic driver with all fittings. Model: Havells LUMILINEPLUSBS24WLED865S PCSS / equivalent as per approved makes	Nos	4.00			
31	Demolishing of six numbers old buildings at Rural Health Centre, Ramanathapuram (JIPMER), Pondicherry, including stacking of serviceable material and disposal of unserviceable material away from the campus, leveling of the surface and making good as per the direction of Engineer in charge. The size of buildings are as follows 1. 13.50 Mts. X 11.5 Mts.2. 11.50 Mts. X 8.50 Mts.3. 4.40 Mts. X 2.30 Mts. (Water Tank)4. 13.60 Mts. X 3.80 Mts.5. 8.40 Mts. X 3.20 Mts.6. 13.60 Mts. X 3.80 Mts.7. 8.40 Mts. X 3.20 Mts.8. 13.60 Mts. X 3.80 Mts.9. 8.40 Mts. X 3.20 Mts.	Job	1.00			
Total Amount						
Add GST						
Grand Total Amount incl. of GST in Figures						
Grand total amount in words: Rupees						

END OF VOLUME - IV