

**CIVIL, ELECTRICAL WORKS & LPG DETECTION
SYSTEM AT WARD 30 B & C AND OT CORRIDOR
AT OLD HOSPITAL BLOCK, JIPMER, PUDUCHERRY**

**Volume- IV
BILL OF QUANTITIES**

**Tender No: HLL/IDD/CHN/18-19/016
Dated: 14th November 2018**



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Bill of Quantities

Name of work: Civil, Electrical works & LPG detection system at Ward 30 B & C and OT corridor at Old Hospital block, JIPMER Puducherry

Sl.No	DSR No.	Description of Items	Unit	Qty	Rate	Amount	Amount in Words
1	1.10	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.					
1.1	1.10.3	Group C	point	16.00			
2	1.14	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.					
2.1	1.14.2	2 x 2.5 sq.mm + 1x 2.5 sq.mm earth wire	RM	200.00			
2.2	1.14.4	2 x 6 sq.mm +1x 6 sq.mm earth wire	RM	50.00			
2.3	1.14.8	4 x 4 sqmm + 2 x 4 sqmm earth wire	RM	100.00			
2.4	1.14.11	4 x 16 sqmm + 2 x 10 sqmm earth wire	RM	120.00			
3	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					

3.1	1.24.1	5/6 A switch	Each	3.00			
3.2	1.24.3	15/16 A switch	Each	2.00			
3.3	1.24.4	3 pin 5/6 A socket outlet	Each	3.00			
3.4	1.24.5	6 pin 15/16 A socket outlet	Each	2.00			
4	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required					
4.1	1.27.2	3 Module (100 mmX75 mm)	Each	3.00			
4.2	1.27.4	6 Module (200 mmX75 mm)	Each	2.00			
5	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.	Each	13.00			
6	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
6.1	2.3.4	16 way, Double door	Each	1.00			

7	2.50	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required • (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
7.1	2.5.2	8 way (4+24) double door	Each	1.00			
8	2.1	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.					
8.1	2.10.1	Single pole	Each	14.00			
8.2	2.10.2	Single pole with neutral	Each	1.00			
8.3	2.10.4	Triple pole	Each	14.00			
9	2.2	Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections , etc., as required					
9.1	2.2.1	100 Amps 3 pole MCCB 16 kA	Each	1.00			
10	2.17	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A, 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	6.00			

11	1.50	Installation, testing & commissioning etc of exhaust fan in the existing opening, including making good the damage,					
11.1	1.50.1	Upto 450 mm sweep	Each	1.00			
12	6.4.1	Brick work with common burnt clay F.P.S. (non modular)bricks of class designation 7.5 in super structure above plinth level up to floor V level in all shapes and sizes in C.M. 1:4(1 cement : 4 Coarse sand)	Cum.	7.00			
13	13.3.1	20 mm cement plaster of mix 1:4 (1 Cement : 4 Fine Sand)	Sqm.	29.12			
14	13.4.1	12 mm cement plaster of mix 1:4 (1 Cement : 4 Fine Sand)	Sqm.	24.18			
15	11.3.1	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.	5.00			
16	10.25.2	Steel work welded in built-up sections / framed work, including cutting, hoisting, fixing in position and applying of a priming coat of approved steel primer using structural steel etc., as required. In gratings ,frames, guard bar, ladder, railings, brackets gates and similar works	Kg.	175.00			

17	12.1.3	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. 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	10.80			
18	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm.	13.56			
19	13.39.1	Colour washing such as green, blue or buff to give an even shade : New work (two or more coats) with a base coat of white washing with lime	Sqm.	53.30			
20	LMR	Supply of Flame proof light fixtures IP 66 , Aluminum body, 24w	Each	3.00			
21	LMR	Supply of 450mm sweep Exhaust fan and its accessories as required	Each	1.00			

22	LMR	Supply of 15 watts LED bulk head fitting in die cast aluminum housing and frosted glass	Each	2.00			
23	LMR	Supply, Installation, testing & commissioning of DOL starter upto 3 HP, 3phase ,415 volt and accessories to complete.	Each	6.00			
24		The light fixtures shall be complete with electronic ballast, lamp holder, lamps, starters, condenser to improve power factor etc duly wired up for use on 240V single phase 50 Hz AC supply. All fittings should be fitted with electronic ballast of THD less than 10%					
24.1	LMR	Supply of 600 X 600 mm recess mounted Square LED 40 W down light in die-cast aluminium housing including high efficiency diffuser provides soft glare free light, driver etc including all required mounting accessories complete. (WIPRO Model No : D414065 - Garnet Slim or Equivalent	Each	8.00			
		FIRE EXTINGUISHERS					
25	LMR	Supply, installation, testing and commissioning of following types of extinguisher with provision of wall bracket (fixed with anchor fastner) or floor mounted.					

25.1		ISI marked (IS:15683) Fire Extinguisher, Carbon-di-oxide type capacity 4.5 Kg. Flat base including valve, discharge hose of not less than 10 mm dia, 1M long and complete in all respects including initial fill with CO2 gas conforming to IS:307-1966 filled to a filling rate of not more than 0.667 and wall suspension bracket including all signages	No.	3.00			
25.2	LMR	Supplying and installing at approved location approved make fire buckets of 24 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "FIRE" in black and gold. Cost shall be inclusive of providing MS stand for 2 nos of fire buckes, or duly painted over a coat of primer.	No.	1.00			
26		LPG Gas Detection System					
26.1	LMR	Supply, Installation, Testing & Commissioning of IP 66 LPG gas detector	Nos	2.00			
26.2	LMR	Supply, Installation, Testing & Commissioning of 10 channel controller with digital alarm indicator console Compatible to LPG system	Nos	1.00			
26.3	LMR	Supply, Installation, Testing & Commissioning of Non FLP Hooter Compatible to LPG system	Nos	2.00			

26.4	LMR	Supply, Installation, Testing & Commissioning of 2 core x 1.5 sq mm FRLS copper Cable with PVC conduit	Mtrs	200.00			
26.5	LMR	Supply, Installation, Testing & Commissioning of 4" pressure gauge (0-16) with isolation valve Compatible to LPG system	Nos	2.00			
27	LMR	Supplying and fabrication of M.S. LPG lines with proper supports at necessary points using 20 mm seamless pipes with necessary bends & Tees throughout the main line and 12 mm pipes at the delivery ends with proper threading and welding by expertise fabricators.	Rmt.	65.00			
28	LMR	Supplying and fixing of M.S. 20 mm half turn ball valves for LPG lines with proper threading and welding by expertise fabricators Compatible to LPG system	No.	6.00			
29	LMR	Supplying and fixing of M.S. 12 mm half turn ball valves for LPG lines with proper threading and welding by expertise fabricators Compatible to LPG system	No.	14.00			
30	LMR	Supplying and fixing of LPG cylinder regulators and hose of ISI approved make conforming to IS 9798 including the cost of regulator, hose and fixing it to position.	No.	5.00			
31	LMR	Providing and fixing of 50 mm MS pipes for sheet fixing including the cost of fabrication of the pipes with a coat of primer and fixing.	Rmt.	12.00			

32	LMR	Providing and fixing of precast lintel of size 0.23 x 0.23 Lintel with length 1.5m (1.5m x 0.23m x 0.23m) over the openings with proper fixing and finishing as directed by Engineer in charge.	No.	1.00			
33	LMR	Providing, fixing and fabrication of steel door (1.2m x 2.1m) with 18 gauge thickness to ensure clear acces to the LPG room including cutting of the existing steel window and convert to openable door with additional civil works by dismantling the wall and make it to required finish as directed by Engineer in charge.	No.	1.00			
34	LMR	Inspection charges for testing and cerification of LPG lines including pressure test, leakage test, line guage test, line testing and inspection and certification of the entire lines as per the norms of the Government by the liecenced Inspetor by Inspetor of Factories and Boilers by the Government of Puducherry.	Job	1.00			
Total						-	
Add 12% GST							
Grand Total incl. of GST							
Grand Total in words: Rupees							

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