

ABSTRACT OF COST

Name of work : Construction of CDB Regional office at Mongar.

(Sub head : Internal Electrification and Telephone net work).

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
SH-1	WIRING						
1.1	Wiring for light point with 1.5 sq.mm PVC insulated copper conductor cable 1.1K.V.G in recessed MS conduit including connection,painting testing and commissioning etc. as required.						
1.1.1	Short point.	3	points.				
1.1.1	Medium point.	25	points				
1.1.2	Long point.	14	points				
1.2	Wiring for twin light point with 1.5 sq.mm PVC insulated copper conductor cable 1.1K.V.G in recessed MS conduit with 2 way 6 ampere switch including connection,painting testing and commissioning etc.as required.						
1.2.1	Long point.	2	points.				
1.3	Wiring for ceiling fan point with 1.5 sq.mm PVC insulated copper conductor cable 1.1K.V.G in recessed MS conduit including connection,painting testing and commissioning etc. as required.						
1.3.1	Medium point	9	points				
1.3.2	Long point.	2	points				
1.4	Wiring for exhaust fan point with 1.5 sq.mm PVC insulated copper conductor cable 1.1K.V.G in recessed MS conduit including connection,painting testing and commissioning etc. as required.						
1.4.1	Medium point.	5	points.				
1.5	Wiring for call bell point with 1.5 sq.mm PVC insulated copper conductor cable 1.1K.V.G in recessed MS conduit						

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
	including connection, painting testing and commissioning etc. as required.						
1.5.1	Long point.	1	point.				
1.6	Wiring for lighting circuit with 1.1K.V.Grade, PVC insulated copper conductor cable in recessed MS conduit including connections, painting, testing and commissioning etc. as required.						
1.6.1	2x2.5 sq.mm	80	Mtrs.				
1.7	Wiring for power circuit with 1.1K.V.Grade, PVC insulated copper conductor cable in recessed MS conduit including connections, painting, testing and commissioning etc. as required.						
1.6.1	2x4 sq mm.	312	Mtrs.				
1.7	Wiring for 3 pin 16Amp. Plug point with 4 sq.mm 1.1K.V.Grade PVC insulated copper conductor cable in recessed MS conduit including providing & fixing 3 pin 16A socket outlet & switch including earthing the third pin, connection painting, testing and commissioning etc. as required.						
1.7.1	Long point.	18	points.				
	Total of sub head -1 :						
	SH-2 FITTINGS & ACCESSORIES :-						
2.1	Supplying of prewired indoor fluorescent lamp luminaries housing of CRCA sheet steel rail, end with lamp holders, copper wound ballast, starter, starter holder, terminal block etc. but without lamp, HPF suitable for wall and ceiling directly. (Philips cat ref-TMC-501/136 HPF / Bajaj cat ref-BJIR 136/140 FTL luminaire).						
2.1.1	Mounting box type 1x36/40 watt.	30	each				

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
2.2	Supplying of prewired indoor surface/ ceiling mounted luminaries suitable for GLS lamp for maximum wattage up to 1x60watts complete with all accessories such as base, holder, glass globe etc.but without lamp. cat ref-03DY, finish:01 (Decon).						
2.2.1	Square louvered,projection 115mm,length or width 240mm,finish-painted.	7	each				
2.3	Supplying of prewired indoor rails and wall bracket on surface/ceiling mounted luminaries suitable for GLS lamp for maximum wattage upto 1x100watts complete with all accessories such as base,holder,reflector, rails,glass etc.but without lamp. Cat ref No. 05PL, finish:01, Yogi light, (Decon).						
2.4	Supplying of ceiling fan 240 volts A.C 1400 rpm with all accessories such as down rod,sweep 3 Nos, canopy 2 Nos ,condenser and fan body etc.complete as required. (Bajaj/Crompton/Orient).						
2.4.1	900 mm sweep.	1	each				
2.4.2	1200 mm sweep.	10	each				
2.5	Supplying of exhaust fan 240 volt A.C 900 rpm with all accessories such as frame with arm 3 Nos.sweep 3 Nos. condenser and fan body etc.complete as required. (Bajaj/Crompton/Orient).						
2.5.1	300 mm sweep.	5	each				
2.6	Supplying of Aluminium louveres for exhaust fan complete with all accessories as required.						
2.6.1	300 mm sweep.	5	each				
2.7	Supplying of prewired call bell 250 volt A.C with base, terminal block and all accessories complete as						

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
2.7.1	required. (MK India/Legrand(MDS)). Gong bell assembly.	1	each				
2.8	Providing & fixing of angle holder for 1x100 w heavy duty including connection,fixing of lamp etc. complete as required but without lamp. (Anchor Roma).	2	each				
2.9	Supplying of GLS lamps 250 volts A.C GLS lamps						
2.9.1	GLS lamp 1x60 watts (BC) (Philips/Bajaj).	7	each				
2.9.2	GLS lamp 1x100 watts (BC) (Philips/Bajaj).	6	each				
2.1	Supplying of fluorescent lamps 250 volts A.C						
2.10.1	TLF lamp 36/40watts, (Philips / Bajaj).	30	each				
	Total of sub head - 2 :-						
	SH-3 ERECTION OF FITTINGS & ACCESSORIES.						
3.1	Erection of all indoor surface type wall bracket/ surface ceiling fitting/GLS lamps/call bell fittings with all accessories, fixing of lamps,testing etc.as required with PVC insulated copper conductor.						
3.1.1	1.5 sq mm single core cable 1.1K.V.Grade	42	each				
3.2	Installation,testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length up to 300 mm with PVC insulated copper conductor.						
3.2.1	1.5sq.mm single core cable 1.1 K.V.Grade.	11	each				
3.3	Installation, testing and commissioning of exhaust fan 300 mm sweep in the existing opening including making the hole to suit the size of the indicated fan making good the damages and connection with PVC insulated copper conductor.						

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
3.3.1	1.5 sq.mm single core cable 1.1 K.V.Grade.	5	each				
3.4	Installation of aluminium louveres/shutters complete with a frame of all sizes in the existing opening including making good as required.						
3.4.1	Exhaust fan 300 mm sweep.	5	each				
3.5	Installation,testing and commissioning of prewired fluorescent fitting of all surface type complete with all accessories and tubes directly on ceiling/ wall as required including connection with PVC insulated copper conductor.						
3.5.1	1.5 sq.mm single core cable 1.1 K.V.Grade.	30	each				
Total of sub head - 3 :-							
SH-4 CONTROL GEARS AND SUBMAIN :-							
4.1	Supplying of TPN distribution board (DIN type) single door type,415 volt, A.C complete with all accessories without MCB/MCCB outgoing or incoming etc.as required. (Legrand (MDS) / L&T/Seimens) .						
4.1.1	8 Way.	1	each				
4.2	Installation,testing and commissioning of TPN DB (DIN type) single door complete with all accessories to accommodate incoming MCCB four pole 125 A breaking capacity 16KA and outgoing SPMCB 6/16 A in prefabricated MS surface including drilling holes,connections etc.as required.						
4.2.1	8 way.	1	each				
4.3	Supplying of wall mounting combination fuse switch unit (HRC) with steel enclosure TP&N fuse switch unit,415 volt A.C complete with HRC fuses and all accessories etc. as required. (Legrand (MDS) / L&T/Seimens) .						

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
4.3.1	125 A, 415 V.	1	each				
4.4	Installation,testing and commissioning of four pole steel enclosure fuse switch unit complete with all accessories to accommodate in prefabricated MS surface including drilling holes,connections etc as required.						
4.4.1	125 A,415 V.	1	each				
4.5	Supplying of panel moulded case circuit breaker (MCCB) with electronic release,breaking capacity 16KA,4 pole 415 volt A.C complete with all accessories etc.as required.						
4.5.1	125 A.	1	each				
4.6	Installation,testing and commissioning of four pole moulded case circuit breaker (DIN type) breaking capacity 16KA complete with all accessories to accommodate in prefabricated MS surface including drilling holes,connections etc.as required.						
4.6.1	125 A,415 V.	1	each				
4.7	Supplying of minature circuit breaker (MCB) SP 230 V AC complete with all accessories suitable to fix on a din bar etc.as required.						
4.7.1	MCB 6A . (Legrand (MDS) / L&T/Seimens).	6	each				
4.7.2	MCB 16A .(Legrand (MDS) / L&T/Seimens).	18	each				
4.8	Installation,testing and commissioning of SP miniature circuit breaker DIN type complete with all accessories to accommodate in prefabricated MS surface including drilling holes,connections etc.as required.						
4.8.1	6/16 A.	24	each				
4.9	Supplying of 4-core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cable from bhutan power corporation up to the main control board.						
		30	mtrs.				

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
4.1	Laying of one number PVC insulated and sheathed power cable aluminium armoured 1.1KV single core to four core direct in the ground including excavation,sand cushioning,protevtive covering and refilling the trenches etc.as required.						
4.10.1	Above 6 sq mm to 25 sq mm.	30	mtrs.				
Total of sub head - 4 :-							
SH-5 EARTHING & LOOP EARTHING							
5.1	Providing and fixing of earthing including all accessoris,machinery enclosure,C.I cover plate having locking arrangement, watering pipe with excavation and refilling work including charcol or coke and salt complete as required and as per the standard earthing drawing.						
5.1.1	With copper earth plate 600x600x3mm.	1	each				
5.2	Providing & laying earth connections from earth electrode in 15mm dia.G.I from earth electrodes to main control board as required as per guidance of standard earthing drawing.						
5.2.1	With 4.06mm dia (8SWG) copper wire.	15	Mtrs.				
5.3	Supplying & laying of wire on surface or in recessed for loop earthing as required.						
5.3.1	With 4.06mm dia (8SWG) copper wire.	8	Mtrs.				
5.4	Providing and drawing wire for loop earthing in existing recessed MS conduit along with other wires as required.						
5.4.1	2.032mm (14 SWG) copper wire.	200	Mtrs.				
Total of sub head - 5 :-							

Item No.	Description of items	Qty.	Unit	Rate (Nu.)		Amount	Remark
				In Figure.	In words.		
SH-6	TELEPHONE NET WORK :-						
6.1	Providing & fixing telephone socket outlet along with all accessories including connection, testing etc. as required. (Anchor Roma / Legrand(MDS)/MK India) .						
6.1.1	Telephone socket, Type (RJ -11).	6	each				
6.3	Providing & fixing of M.S conduit 25mm dia 16 SWG in recessed including all accessories etc.complete as required.						
		105	Mtrs.				
6.4	Providing & drawing PVC insulated & sheathed copper conductor 0.5 mm dia telephone wire in recessed M.S conduit wiring system complete as required.						
6.4.1	2 pair.	109	Mtrs.				
	Total of sub head - 6 :-						