

Central Mechanical Engineering Research Institute, Durgapur

Electrical Engineering Services Section

Name of the work :Upgradation of single room Hostle in to Executive Guest House at
CSIR - CMERI Colony Dgp-9.

S.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs)
1	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 recessed steel conduit, with moduler switch , moduler plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required Group A.	212	Point		
2	Wiring for circuit/submain wiring alongwith earth wire with the following size of FRLS PVC insulated, copper conductor, single core cable in recessed steel conduit as required.				
a)	2 x 1.5 sq.mm. + 1x 1.5 sq.mm earth wire	240	Metre		
b)	2 x 2.5 sq.mm. + 1x 2.5 sq.mm earth wire	620	Metre		
c)	2 x 4 sq.mm. + 1x 4 sq.mm earth wire	760	Metre		
d)	2 x 6 sq.mm. + 1x 6 sq.mm earth wire	1760	Metre		
e)	4 x 10 sq.mm. + 2x 10 sq.mm earth wire	4	Metre		
f)	4 x 16 sq.mm. + 2x 16 sq.mm earth wire	4	Metre		
3	Supply & fixing suitable size GI box with moduler plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 Amps moduler Socket outlet and 5/6 Amps moduler switch, connections, etc. complete as required.	108	Each		
4	Supply & fixing suitable size GI box with moduler plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 Amps moduler Socket outlet and 15/16 Amps moduler switch, connections, etc. as required.	46	Each		
5	Supply & fixing call bell /buzzer suitable for single phase, 230 volts, complete as required.	20	Each		
6	Supply and drawing co-axial TV cable RG-6 grade, 0.7mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface /recess steel / PVC conduit as required.	140	Meter		

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S.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs)
7	Supply and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
a)	TV Antenna socket outlet	40	Each		
8	Supply and fixing following size/ modules, GI Box along with modular base & cover plate for modular switches in recess etc as required.				
a)	2 Module (75mmX75mm) for TV, Regulator	60	Each		
b)	3 Module (100mmX75mm) for Skirting light.	20	Each		
9	supplying and fixing DP sheet steel enclosure on surface/recess along 20/25/32 amps 240 volts "c" curbe DP MCB complete with connection,testing and commissioning etc as required, Make- Legrand.	64	Each		
10	Earthing with G.I. earth pipe 4.5 mm long x 40 mm dia. Including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal or coke and salt complete as required.	2	Set		
11	Supply and lying 25X5 mm GI strip at 0.05 meter below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc as required.(jointing shall be done by overlapping and with 2 set og GI nuts bolts & spring washer spaced at 50mm). (For 2 Set earthing 6m+6m.)	12	Mtr		
12	Laying of one number PVC insulated and PVC sheathed/XLPE power cable 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.				
	Above 35 Sq. mm and up to 95 Sq. mm	70	Metre		

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S.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs)
13	supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required, Make- Legrand.	20	Each		
14	Supply and Fixing of ultra slim square profile linear 18W, LED Batten lighting wall fixture with extruded polycarbonate, environmental friendly, energy efficient ready to use pack, including connection, testing, commissioning as required. (LHEXBTP7UN1W018 of Havell's/ philips/equivalent)	94	Each		
15	Supply and Fixing of 2ft, 9W,-900 lumens,6500K LED batten lighting fixture with, energy efficient ready to use pack, including connection, testing, commissioning as required. 6019 Astra Line 2ft of philips/equivalent)	40	Each		
16	Supply and Fixing of 240V, 50HZ, 60 watts LED, road way Energy shaving luminarie, with pressure die cast aluminium IP66 luminarie with high power LED as light source, including Fixing of suitable single arm bracket, clamps etc on parapet wall of roof as required. connection, testing, commissioning as required. Make-LHETAXU7PN6J060 of Havells.	8	Each		
17	Supplying and installation of 4 way TPN DBs- DPX3 160 MCCB DBs (IP20-IK08 protection) distribution board with provision for DPX 125 MCCB and ELM as incomer and SP/DP/TP MCBs as outgoing. with suitable of cable end box for single/ Three phase Outgoing, with tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnection including, earthing, connection, testing, commissioning etc as required. Incomer DPX3 160, 125 A FP MCCB, 36KA with speeder link - 1No. Outgoing 40 to 63 Amp SP MCB(10KA) - 12 Nos. (Model no- 607913 for DB, 420096 for DPX MCCB, 607813 for E Box of Legrand..).	2	Set		

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S.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs)
18	Supplying and fixing of 4 way ETPN (IP43-IK09 protection) distribution board with SP/DP MCBs outgoing with provision for FP MCBs as incomer with tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnection including earthing, connection, testing, commissioning etc as required. Incomer -125A Amp FP MCBs(10KA) - 1No. Outgoing - 40 to 63 Amp SP MCBs(10KA) - 12 Nos. (Model no-607717 for DB, 408705 for FP MCBs, of Legrand.)	2	Set		
19	Supplying & fixing of DP Sheet steel enclosure with 1 no. 40/63 Amp, 'C' curv-10 KA, DP MCB and Din Channel for installing it including connection & body earthing complete as required.(For room out side Power DB) Make-Lagrand.	20	each		
20	Supply & fixing of electric storage water Heater/ Gyser, 5 star rated, capacity 15 Liters, 230V, 50 Hz 2 KW with automatic temprature control, system, Rated pressure 8 bar, with installing by fastning suitable counter shank Bolts, nuts, washer etc as required at a certain hight of bath room wall, including connection & body earthing complete as required. Make Venus15L Splash gyser Honey gold, Model No-SPLASH GL VERTICAL- 15GL of VENUS / eqivelent	20	each		
21	Supply and Fixing of 230 volts 50 Hz, sweep - 300 mm, Heavy duty Exhaust Fans including making hole with suitable lubar and all the accessories as complete as required sweep - 300 mm, Model -Turbo Force SP of Havells.	20	No		
22	Supply and fixing of 1200 mm sweep, 220/240 Volt, 50 Hz, 320 rpm, 5 star rated, 3 blade, double bearing, ceiling fan, Make - Crompton Greaves BEE, Model- HS Plus. Including wire connection, testing and commissioning etc. as required.	20	Each		

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S.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs)
23	Supply of brand 650V/1.1 KV grade XLPE insulated, core laid up, Thermo plastic Tape inner sheathed , Aluminium conductor armoured and extruded PVC type power cables conforming to IS 7098(Part -1) of following sizes.Make- gloster/ Pily cab/ Equivalent. 3.5 x 70 sq mm AYWY cable.	70	Mtr		
24	supply and fixing 8 inch above the floor of Moduler type skirting light (Foot light) with white LED- 230V- 3 module, including connection & body earthing complete as required. Make-Legrand model no-673036.	20	Each		
25	Supply and fixing of 8 (6+2) way SPN (IP43- IK 09 with metal door protection) distribution board for single phase Outgoing with provision for MCB as incomer with tinned copper busbar, neutral link, earth bar, din bar,detachable gland plate,interconnection including, installation, plastering/Massionary works for fixing the DB, painting,earthing, connection, testing, commissioning etc as required. Incomer 32 Amp DP MCB(10KA) - 1No . Outgoing - 10 to 32 Amp SP MCB(10KA) - 6Nos. Model 607711(DB) /408636 (DP,MCB)/408590-95(SP) of Legrand.	40	Set		
26	Dismantling of 20 nos single rooms hostile old existing MS condute inside/out side the wall, DB, main switch,busbar box,batton wiring, switch board,old MS box etc with repairing the same as good as required.	1	JOB		
27	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1KV grade as required				
a)	3 1/2 X 70 sq mm (38mm)	4	Each		

Total Rs.

(Rupeesonly.)

Signature of the Tenderer with date