

**COMPOSITE WORKS(INTERIOR FURNISHING,ELECTRICAL AND AIR CONDITIONING) FOR REPAIR & RENOVATION OF CANTEEN BLOCK AT SBILD,VIZIANAGARAM,A.P.**

Sl.No	Description of Work / Item(s)	Units	Qty	Rate	Amount	Amount in word
1	<b>PART A-INTERIOR FURNISHING WORKS</b>					
2	<b>SUBHEAD-I : INTERIOR WORK</b>					
3	<b>False Ceiling (Plain Gypsum Board )</b>					
4	Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm,at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, The perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of 4mm cement fibre board of GLO /equivalent make to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specificaton and direction of the Engineer in charge but excluding the cost of painting	Sqm	45.00			
5	Providing and fixing of Daiken/ Armstrong/ USG of approved equivalent minerl fibre ceiling tiles with hot dipped galvanised steel grid frame work, survace chemically cleaned capping pre-fabricated in baked polyester paint, main tees ot size 33 (H) x 24mm/15mm at every 1.2m center to center to form a grid from RCC roof using 2mm GI rod and 6mm nylon rawl plug at every 1200mm intervals, supply and laying Daikin/ Armstrong/USG or approved equivalent minerl fibre accoustic ceiling tiles (VUNUS III pattern of tegular edge or equivalent) of size 600 x 600 x 15mm over the formed grid. The board shall have fire rating of 60 minuts as per BG47g/23 of 1987, light reflection above 85% noise reduction coeeficient (NRC) of 0.55 to 0.60 sound tenuation of 32 db, and humidity resistance upto 95% at 50c including making provision/opening and strengthening for light fittings, A/C diffuser and like, providing locations etc., complete all as directed.Necessary steppings and cuttings for electrical fittings,security devices,firefighting equipmentsetc.as per the directions at site and arrangements for fixing the electrical and other fittings are to be provided. (Refer ceiling plan).	Sqm	45.00			
6	Providing of polymer based ceiling panel of Euro pratik / VOX make as per design	Sqm	10.00			
7	<b>Cubboard:</b> Providing, fitting fixing of cutlery & crockery cabinet in pantry area shall be made of 19mm thick BWR plywood conforming to (IS303). The front portion of the cupboard is to be exposed type using 12mm thick plywood and all the exposed faces are finishd with 1mm laminate (shade and colour as per the drawing).The cub board shall be fitted with all necessary hardwares for locking system.Necessary fittings such as cabinet hinges ,magneticlock, ballcatches, 200mmlong SS finish handle etc should be provided. in each shutter .Necessary 2mm thick PVC edge banding shall be given in all visible/exposed edges. Skirting for a height of 10 cm should be provided as per the drawing. face area shall be measured for payment. <b>Cub board (7'0" height)</b>	Sqm	20.00			
8	Wall Paper: Providing & Fixing Wall Paper of approved shade including base preparation etc Complete in all respect. (Base Price of Wall Paper 65/- Sqft)	Sqm	10.00			
9	<b>TOTAL FURNISHING WORKS(PART-A)</b>					
10	<b>PART B-ELECTRICAL WORKS</b>					
11	<b>SUBHEAD-II: INTERNAL ELECTRIFICATION</b>					
12	<b>W I R I N G</b>					
13	<b>(Colour Code of wires to be strictly maintained)</b>					
14	Wiring for light point/ fan point/ exhaust fan/wall 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 including supplying the same and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. First Point. Group A	Point	90.00			

15	Wiring for light point/ fan point/ exhaust fan/wall 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 including supplying the same and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required Secondary Point .(LOOP POINT) Group A (Controlled by same switch)	Point	20.00			
16	Wiring for circuit/ submain wiring alongwith 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 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	350.00			
17	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required . 4 X 1.5 sq. mm + 2 X 1.5 sq. mm earth wire	Metre	150.00			
18	Wiring for circuit/ submain wiring alongwith 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 + 1 X 4 sq. mm earth wire	Metre	155.00			
19	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required. 4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	85.00			
20	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required. 4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	70.00			
21	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required. 4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Metre	70.00			
22	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. 3 x 1.5 sq. mm	Metre	10.00			
23	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. 6 x 1.5 sq. mm	Metre	10.00			
24	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.2 x 4 sq.mm (for earth connection of CCTV equipments)	Metre	50.00			
25	S/D following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as reqd. 2 Pair	Metre	50.00			
26	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	40.00			
27	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm	Metre	100.00			
28	Supplying and fixing metal box of 2.0 mm thick following sizes (nominal size) on surface or in recess without cover including painting etc as required. 75 mm X 75 mm X 60 mm deep	Nos	4.00			
29	Supplying and fixing metal box of 2.0 mm thick following sizes (nominal size) on surface or in recess without cover including painting etc as required. 100 mm X 100 mm X 60 mm deep	Nos	3.00			
30	Supplying and fixing metal box of 2.0 mm thick following sizes (nominal size) on surface or in recess without cover including painting etc as required. 150 mm X 75 mm X 60 mm deep	Nos	2.00			
31	Supplying and fixing metal box of 2.0 mm thick following sizes (nominal size) on surface or in recess without cover including painting etc as required. 200 mm X 125 mm X 60 mm deep	Nos	1.00			
32	Supplying and fixing metal box of 2.0 mm thick following sizes (nominal size) on surface or in recess without cover including painting etc as required. 200 mm X 150 mm X 60 mm deep	Nos	1.00			
33	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.1-2 Module	Nos	10.00			
34	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required . 3 Module	Nos	10.00			
35	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required .6 Module	Nos	4.00			
36	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.8 Module	Nos	1.00			
37	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required . 5/6 amps switch	Nos	11.00			
38	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required. 15/16 amp switch	Nos	7.00			
39	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required. 3 pin 5/6 amp socket outlet	Nos	11.00			
40	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required. 6 pin 15/16 amp socket outlet	Nos	7.00			

41	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required. 20 amp switch (One Module)	Nos	7.00			
42	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required. Telephone socket outlet, RJ-11	Nos	2.00			
43	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required.TV antenna socket outlet	Nos	2.00			
44	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required .Ceiling rose	Nos	10.00			
45	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate, switch box etc. as required.AC starter, 25A, 2 Module	Nos	7.00			
46	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Nos	13.00			
47	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Nos	10.00			
48	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required in <b>separate location</b> .	Nos	9.00			
49	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/5 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required <b>inseparate location</b>	Nos	17.00			
50	Installation, testing, commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS lamps per fitting /LED lamp, complete with all accessories including connection etc. as required.	Nos	20.00			
51	Supply, fixing PVC batten / angle holder i/c connection etc as reqd	Nos	10.00			
52	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	Nos	1.00			
53	Providing and fixing plain 16/0.20mm (0.50sqmm) twin circular flexible FRLS PVC insulated, PVC sheathed copper cable direct on the wall with PVC clips etc. as required.	Metre	45.00			
54	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting /LED fittings of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Nos	61.00			
55	Installation, testing and commissioning of ceiling fan on down rod or wall fan on the existing ceiling /surface, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including providing fixing phenolic laminated fan cover on the box etc. as required.	Nos	13.00			
56	Installation of exhaust fan with shutters/louvers in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. Upto 450 mm sweep	Nos	7.00			
57	<b>Rising main, SDB'S, MCB, ISOLATOR</b>					
58	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, 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) . 8 way, Double door	Nos	1.00			
59	Supplying and fixing following way, <b>horizontal</b> type three pole and neutral, sheet steel, MCB distribution board, 415 volts, 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 <b>with</b> MCB/RCCB/Isolator).6 way (4 + 18), Double door	Nos	4.00			
60	Supplying and fixing Cable End Box (Loose wire box)(IP 43) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 V/415V, on surface/ recess, complete with testing and commissioning etc. as required. a) for 8 way DD SPN DB	Nos	1.00			
61	Supplying and fixing Cable End Box (Loose wire box)(IP 43) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 V/415V, on surface/ recess, complete with testing and commissioning etc. as required d) for 4 way DD TPN DB	Nos	4.00			
62	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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 reqd. Single pole	Nos	48.00			
63	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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 reqd. Single pole and neutral	Nos	1.00			

64	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Nos	6.00			
65	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	Nos	5.00			
66	Supplying and fixing following rating, four pole, 415 volts, isolator/MCCB in the existing MCB DB /Tap off box complete with connections, testing and commissioning etc. as required. 40 amps	Nos	2.00			
67	Supplying and fixing following rating, four pole, 415 volts, isolator/MCCB in the existing MCB DB /Tap off box complete with connections, testing and commissioning etc. as required. 63 amps	Nos	2.00			
68	Supplying and fixing following rating,DP (Single phase and neutral), 240 volts, residual current circuit breaker RCCB having a sensitivity current of 30mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 25 amps	Nos	6.00			
69	Supplying and fixing following rating,DP (Single phase and neutral), 240 volts, residual current circuit breaker RCCB having a sensitivity current of 30mA in the existing MCB DB complete with connections, testing and commissioning etc. as required 40 amps	Nos	6.00			
70	<b>CABLE AND CABLE TRAY</b>					

71	Supplying and installing following size of GI cable trays (galvanisation 50 micron) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 100 mm width X 50 mm depth X 1.6 mm thickness	Metre	20.00			
72	Supplying and installing following size of GI cable trays (galvanisation 50 micron) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 300 mm width X 50 mm depth X 1.6 mm thickness	Metre	15.00			
73	Supplying and installing following size of perforated GI cable tray bends (galvanisation 50 micron) with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 100 mm width X 50 mm depth X 1.6 mm thickness	Nos	2.00			
74	Supplying and installing following size of perforated GI cable tray bends (galvanisation 50 micron) with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 300 mm width X 50 mm depth X 1.6 mm thickness	Nos	1.00			
75	<b>Cables MV</b>					
76	Supplying the following Size PVC/ XLPE insulated PVC sheathed Aluminium/copper unarmoured/ armour cable of 1.1 kV as per IS 1554 etc as reqd. a) 3.5 core 25 sq.mm, Aluminium (floor Panels)	Metre	75.00			
77	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. a) Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	75.00			
78	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. a) Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	50.00			
79	Supplying and making end termination with brass compression gland and aluminium lugs/copper for following size of PVC insulated and PVC sheathed / XLPE aluminium/copper conductor cable of 1.1 KV grade as required. a) 3.5 core 25 sq.mm	Nos	2.00			
80	Providing brick work (in width 225 mm or more) with F.P.S. bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) at all levels for cable chamber, trench, PLINTH side wall etc as reqd.	Cum	1.00			
81	<b>Earthing for PANELS &amp; Computer</b>					
82	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2.00			
83	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe (with supply of pipe) from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	75.00			
84	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for loop earth connections along with cables etc. as required.	Metre	10.00			
85	<b>SAFETY</b>					
86	Providing and fixing MV danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Nos	1.00			
87	Supplying and Laying 3 mm thick, 11kV rated rubber mat of ISI marked and of approved etc as reqd.	Sqm	1.00			
88	Supplying and fixing shock treatment chart bonded with glass frame of bigger size on the existing surface with suitable clamp /hook arrangement etc as reqd.	Set	1.00			
89	<b>PANELS</b>					
90	Design, supply, installation, testing and commissioning of cubicle feeder panel for outdoor installation of weather proof design as per IP 54 class, made out of 2 mm thick CRCA sheet as per the drawing with cubicle type internal arrangement of 2.0 mm thick sheet and with front opening system, including painting with powder coated paint of approved colour and shed with earthing the body with all other required accessories etc as reqd. (drawing shall be approved by engineer -in charge) <b>(Kitchen Panel)</b>	Set	1.00			
91	<b>Incommer</b>					
92	a) 100A, 3P+N MCCB, 36kA, with thermal release 80-100A (Model DPX <sup>3</sup> Legrand or SS make) - 1no					
93	<b>Outgoing</b>					
94	a) 32-100A, 4p MCCB, 36kA, with thermal release 50-63A (Model DPX <sup>3</sup> Legrand or SS make) - 2no					
95	a) 63A, 4 pole MCB, 10kA, C -Series with - 3 no					
96	b) 32A, 4 pole MCB, 10kA, C - 3 no					
97	c) DOL starter , 7-13A thermal release- 2 nos					
98	h) 4 strip Aluminium Bus bar suitable for 200A (preferably 40mm x 5 mm x 1 nos Al flat) with heat shrinkable tube as per the drawing)					
99	h) VAF Digital meter- 1 set with CT and accessories					
100	i) RYB Neon/ LED indicating lamp - 1 set					
101	k) 100A/5A ammeter with selector switch and CT - 1 set					
102	l) All MCCB shall have rotary operating mechanism.					

103	m) Inter connection of Bus bar and switch gears shall be made through suitable size Alluminium flats. Copper multi core cable shall be used for ineter connection upto 63A capacity.					
104	n) 25 x 5 mm GI Earth bus with insulation.					
105	o) The Cubicle should have 2-part hinged door with front openeable system					
106	p) All other required accessories, wirings, as per SLD					
107	Supplying and fixing of 3ph, 415V, Digital meter, 10-60A for energy monitoring as sub meter including connection, testing etc as reqd. ( All mters shall be tested in MRT/ Authorised testing laboratory as reqd. (with BLE communication facility) (Secure/L&T/ Similar Superior make	Nos	1.00			
108	<b>Fitting and Accessories</b>					
109	Supply, Testing, and commissioning of Exhaust fan 300mm dia suitable to work on 230/250 volts, 50HZ complete with mounting frame and louvers in the existing opening, making good the damage, connections,etc as required.	Nos	5.00			
110	Supply, Testing, and commissioning of Ventilator/ Exhaust fan 250 mm dia suitable to work on 230/250 volts, 50HZ complete with mounting frame and louvers in the existing opening, making good the damage, connections,etc as required.	Nos	2.00			
111	Supplying of 1200 mm sweep ceiling mounted energy efficient 5 star rated fan, ISI marked of metal blade of approved make etc as reqd. (Orient/Usha/Havells or Similar Superior make to be approved by Engineer In Charge)	Nos	13.00			
112	Supply, Testing & commissioning of recess mounted energy efficiency White LED down lighter suitable for following LED confirming to LM-80 catagory with a special diffuser of approved make etc as reqd. a) 15 Watt Square/round (Model LD80 of Wipro/SS make of Philips /Halonex )	Nos	30.00			
113	Supply, Testing & commissioning of recess mounted energy efficiency White LED down lighter suitable for following LED confirming to LM-80 catagory with a special diffuser of approved make etc as reqd b) 5W LED Spot light direct/tiltable Square/round (Wipro/Philips or Similar Superior make)	Nos	30.00			
114	Supply, Testing & commissioning of recess mounted energy efficiency White LED down lighter suitable for following LED confirming to LM-80 catagory with a special diffuser of approved make etc as reqd c) Decorative Wall fitting for 1 nos GLS/LED lamp, B-22, Model JNL-CHR- MB160275211A of Jaguar or Similar Superior make	Nos	4.00			
115	Supply, Testing & commissioning of recess mounted energy efficiency White LED down lighter suitable for following LED confirming to LM-80 catagory with a special diffuser of approved make etc as reqd d) LED Mirror light suitable upto 9W (K lite or Similar superior Model to be approved by EIC) Model - JNL-BRG-WLCONESIE14 of Jaguar or Similar Superior make	Nos	5.00			
116	Supply, Testing & commissioning of recess mounted energy efficiency White LED down lighter suitable for following LED confirming to LM-80 catagory with a special diffuser of approved make etc as reqd f) LED Linier profile light (35 x 35 mm Al profile) with LED strip 12W/mtr Klite or Similar Superior make (LED profile light with LED strip inside customized to appropriate size as per drawing)	Metre	68.00			
117	Supply, Testing & commissioning of surface type energy efficiency LED tube light fitting, alluminium linier batten suitable for 1 x 18 /20 watt LED lamp (with lamp) of approved make (With BIS certification)etc as reqd. (Model Trim LED LL20 of Wipro or SS make)	Nos	9.00			
118	<b>Total of Subhead</b>					

119	<b>SUBHEAD-III: HVAC</b>				
120	<b>For CANTEEN BLOCK</b>				
121	SITC of 2.0 TR Capacity inverter type Split AC of 5-Star with copper condenser coil, suitable for operation on 230 Volts, 50 Hz, single phase AC supply having following Specifications initial charging of R32 refrigerant, connection etc. complete as reqd. (Make : Carrier/ Daikin/ Bluestar/ Hitachi / Voltas or Similar Superior (Installation floor-Ground)	Each	5.00		
122	Supplying and fixing suitable MS wall bracket with powder coated / Galvanized for installation of condenser unit of AC machine i/c cutting, painting and fixing etc. Complete as reqd.	Set	6.00		
123	Extra P/F of nitrile insulated refrigerant twin Cu pipe with all fittings i/c cutting brazing, joining by heating with accessories etc. complete as reqd. Suitable for 2.OTR	Metre	30.00		
124	S/F of Medium duty 20 mm dia rigid pipe with all accessories for drain water line (with U Trap at the end) from I/D unit i/c fixing / clamping etc as reqd.	Metre	50.00		
125	S/L of following PVC insulated Un-armoured Flexible FRLS/FRLSH Cu Wire for connection from I/D Unit and O/D unit to main power line with connection etc complete as reqd (Make KEI, Finolex or SS) a) 3 x 2.5 Sqmm	Metre	40.00		
126	Supplying and fixing of 20 Amp plug top with Neon indicator for power supply to the AC unit i/c connection etc as reqd.	Job	5.00		