

ACCEPTANCE LETTER NO: Minutes of CWC – I held on 21-12-2023

To
M/s. Deepam Enterprises
No. 1, Gurudhwara Cross Street,
Gandhi Salai,
Mittanamalli, Avdi, I.A.F,
Chennai – 600055.

Dear Sirs,

Type of work: Item Rate

Sub: SPECIAL REPAIRS / RENOVATION OF BHISHMA CLUB BUILDING AND CHAIN LINK
FENCING AROUND BHISHMA CLUB AT HVF ESTATE, AVADI

Ref i) Fy Tender No. HVF/TE/13025/CEO/2023-24/39., Dt.23.08.2023.

ii) Your Bid 605298 and Price Negotiation offered vide email dated 20.11.2023,
17.12.2023

1. For and on behalf of the President of India, I hereby convey the acceptance of your tender by the competent financial authority for the above mentioned work for a total value of Rs. 52,56,922.00 (Rupees Fifty Two Lakhs Fifty Six Thousand Nine Hundred and Twenty Two Only) and order the services detailed in the schedule enclosed herewith at the item rates quoted by you in Schedule 'A' of the Tender documents as per the terms, conditions and specifications laid therein. List of items, to be issued by factory, is given in Schedule 'B'.

2. The contract is allotted with No. HVF/CE/19/2023-24/Cap., Dt.08-01-2024 which will have to be quoted by you in all future correspondence in connection with this contract.

3. In accordance with condition No. 22 of the General Condition of Contract (IAFW-2249), please submit the security deposit of Rs. 1,30,000.00 (Rupees One Lakh Thirty Thousand Only) in favour of "Chief General Manager, Heavy Vehicle Factory Avadi" as mentioned in tender condition.

The maturity date of security Deposit shall be minimum 12 months from date of the completion of contract.

4. The contract shall be governed by the terms and conditions as per the contract agreement enclosed and general condition of contract MES IAFW 2249. The deviation limit shall be as per the clause No. 19.1.1 & 19.1.2 of MES Contract Manual (latest revision)

5. Shri. K. Ravichandran, JWM(SG)/IMS/CE(Est) is nominated as Engineer-In-Charge and Shri. S.Arunachalam, JWM / IMS/CE(Est) is nominated as Site-In-Charge for the subject work.

6. You are requested to contact the Engineer-In-Charge within 7 days of receipt of this letter for taking over of site and to make time and progress chart. You will also maintain wage-cum-muster roll and all other records as required in Contract Labour Rules and Acts.

7. Please acknowledge receipt of this letter and return two copies duly signed by you in proof of acceptance within seven days from the date of receipt of this communication.


(K. TULASI RAO)

JT, GENERAL MANAGER / IMS, EO & GS
For CHIEF GENERAL MANAGER / HVF
For And On Behalf Of THE PRESIDENT OF INDIA

Copy to:

1. GM/HR & F&A, HVF, Avadi
2. Shri. K. Ravichandran, JWM(SG) / IMS / CE(Est), Engineer-In-Charge
3. Shri. S.Arunachalam, JWM/ IMS / CE(Est), Site-In-Charge
4. Shri. Prempal Singh, WM / MM(GA) & CEO, Technical Examiner

IN LIEU OF IAFW-1823 (REVISED)
CONTRACTORS ORDER SHEET

Work Order/Deviation Order No.	HVF/CE/19/2023-24/Cap., Dt.08-01-2024
Acceptance letter No.	Minutes of CWC-I held on 21-12-2023
Contractor's Name	Deepam Enterprises
Name of the work	SPECIAL REPAIRS / RENOVATION OF BHISHMA CLUB BUILDING AND CHAIN LINK FENCING AROUND BHISHMA CLUB AT HVF ESTATE,AVADI
CA amount	Rs.52,56,922.00

PARTICULARS

1.	Authority	CWC Decision No. Fy.Level CWC-I
2.	Brief Description of work to be carried out	As per details in sheet attached and adhering to your firm Bid No.605298 in this tender & price reduction offered vide email dated 20.11.2023 & 17.12.2023 in HVF/TE/ 13025/CEO/2023-24/39., Dt.23.08.2023 for all terms & conditions therein & rates quoted in Schedule 'A' enclosed with tender documents.
3.	Time effect	
a	Date of handing over of the site	22/01/2024
b	Date of commencement of work	22/01/2024
c	Date of completion as per contract	18/09/2024
d	Date of completion shown in previous Orders	NA
e	Revised date of completion	NA
4.	Financial effect (Rs.)	
a	Present order	Rs.52,56,922.00
b	Contract amount as adjusted by previous orders	NA
c	Contract amount adjusted up to and including this order	NA
5.	Expenditure to be booked under code Head No.	920/34
6.	Certified that no special rate is involved	
7.	Technical Examiner	Shri. Prempal Singh, WM / MM(GA) & CEO
8.	Approved	Shri. Tulasi Rao, JT.GM / IMS, EO & GS
9.	Accepted	DEEPAM ENTERPRISES


(K. TULASI RAO)

JT. GENERAL MANAGER / IMS, EO & GS
For CHIEF GENERAL MANAGER / HVF
For And On Behalf Of THE PRESIDENT OF INDIA

Distribution to :-

1. Deepam Enterprises
2. GM/HR & F&A, HVF Avadi
3. Sr. Security Officer
4. Shri. K. Ravichandran, JWM(SG) / IMS / CE(Est)., Engineer-In-Charge
5. Shri. S. Arunachalam, JWM / IMS / CE(Est), Site-In-Charge
6. Shri. Prempal Singh, WM / MM(GA) & CEO, Technical Examiner
7. HOS/Safety, 8.HOS/ Internal Audit cell, 9. HOS/Test Audit, 10. ALWC.
11. The Chief Commissioner of Central Excise, 26/1. Mahatma Gandhi Road, Nungambakkam, Chennai – 600 034.
12. The Dy. Chief Labour Commissioner (C), No. 26, III Block, 5th Floor, Shastri Bhawan, Haddows Road, Nungambakkam, Chennai – 600 006.

SCHEDULE - "A"

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
1	Dismantling floor, hearth or wall tiling including cement mortar bedding (but not backing), removing serviceable tiles to store and rubbish off the premises	80.00	m2	98.00	7840.00
2	Roughening surfaces of old concrete floor by picking, sweeping clean and washing down with water to remove dust, etc.	230.00	m2	30.00	6900.00
3	Supply and Fixing of PVC tiles/ sheets of 4mm thick, laminated plain coloured, marbled mosaic or mottled finish, laid with approved rubber based adhesive in floors	175.00	m2	1200.00	210000.00
4	M & L for Virified Ceramic tiles Dark Shade 10 mm thick in Floors (square/ rectangular) polished, area of each tiles not exceeding 0.36 sqm, in floors etc. set and jointed in neat cement slurry and pointed in white or coloured cement to match including Screed bedding 1:4, 15mm thick for laying floor finishes.	270.00	m2	1550.00	418500.00
5	M & L for Virified Ceramic tiles (Dark shade/Double charged / Ultracharged) 10 mm thick (square/ rectangular) polished, area of each tiles exceeding 0.42 sqm but not exceeding 1.00 sqm, in floors/wall etc. set and jointed in neat cement slurry and pointed in white or coloured cement to match including plastering in CM 1:4 10mm thick on existing walls for fixing tiles.	140.00	m2	1900.00	266000.00
6	Material and Labour for glazed ceramic colour tiles in vertical surfaces 300x200x7mm thick set and jointed in neat cement slurry and pointed in white or coloured cement to match including screed bed in CM 1:4 15mm thick complete.	25.00	m2	1200.00	30000.00
7	Supply and Fixing of Colored Non Skid ceramic tiles not less than 7mm thick in floors etc., set and jointed in neat cement slurry and pointed in white or coloured cement to match and screed bed or bedding layer in CM1:3, 20mm thick for laying floor finishes.	10.00	m2	1200.00	12000.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
8	Supply and fixing of GI frame (Including Gypsum board False Ceiling) work for seamless ceiling comprising of GI perimeter channel 0.55 mm thick with two unequal flanges of 20 and 30 mm and web of 27 mm fixed to surrounding wall using nylon sleeves and screws at 450 mm centre to centre/intermediate channel 0.9 mm thick having two equal flanges of 15 mm each and web of 45 mm suspended from soffit at approx 900 mm centre to centre with GI cleat and steel expansion fasteners with and including ceiling section (not exc 1.2 m length) of 0.55 mm thickness having kurl web of 50 mm and flange of 26 mm each with lips of 10.5 mm fixed to the intermediate channel with connecting clips across the intermediate channel at 457 mm centre to centre. including Hangers 6 mm dia. G.I. (upto 1200mm length) adjusting level fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40 x 3 mm size 60mm long and expansion hold fasteners 12.5mm dia. 40mm long including 10mm thick plaster of paris ceiling (Gypsum anhydrous) to flat surface over G.I. or metal frame work including any sunk or raised moulding and any cutting /opening for provision of any lighting fixtures etc. (working at height 4.5 -6 meter). complete all as specified. as approved and as directed	50.00	m2	1500.00	75000.00
9	Providing and fixing Gypsum cornice Board in ceiling and wall fixed with screw as per manufacturer's instructions. and as approved and as directed by EIC.	40.00	m	400.00	16000.00
10	Supply and Fixing of granite (of any colour) work (table rubbed and polished) 20mm thick to fixing on wash basin platform including machine cutting suitably to fix the wash basin including nosing of inner and outer edges complete as directed in CM 1:4 including pointing in white cement (1:2) using marble dust with admixture with shade of granite.	5.00	m2	4800.00	24000.00
11	Supply and fixing of Cement concrete Tiles 20cmx20cmx20mm thick with grey cement and pigment machine pressed with screed bed or bedding layer in CM 1:3, 15mm thick and pointed in neat cement slurry in floors and cut polished.	120.00	m2	1200.00	144000.00
12	Demolition of Reinforced Cement Concrete Jolly, Roofs, Sunshade etc., any description and in any position not otherwise specifically provided for	1.50	m3	1100.00	1650.00
13	Taking down window Shutters of any description not exc 1.0 sq. m each and handing over the same to CE(E)/Store.	24.00	Each	80.00	1920.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
14	Providing and fixing factory made UPVC white color sliding window three track made of extruded profiles with wall thickness of 2.3 mm (1.02mm) window profile with hollow section with multi chamber frames (88mmx52mm) sliding sash(42mmx57mm Sliding Interlock(one vertical length in each shutter) 45.5mmx28mm) Glazing bead (24.5mmx16mm) will be mitred cut and fusion welded at all corners including railing of holes for fixing hardware and drainage of water etc., making arrangement for fixing hardware EPDM gasket, 1.20 to 0.20mm thick galvanized steel frame(30mmx18mm(2 nos sliding sash (30mmx18mm) Sliding mesh sash(26mmx10mm) profile to be inserted in required profile frame will be fixed to the wall with 8mmx100mm long fasteners, Hardware Touch Lock of Zinc alloyed (white powder coated) steel roller system stainless steel wire cloth 0.36mm nominal dia of wire and average width of aperture 1.40mm and required accessories (Note the unit rate quoted by the contractor excludes cost of glass and includes all other connected accessories net opening will be measured for payment purpose (a) area n.exc 2.00 Sqm each) and as approved and as directed.	65.00	m2	9500.00	617500.00
15	Supply and Fixing of sheet Glass 5.50mm quality and glazing with oil putty in square exc 0.5Sqm in each pare ground or obscured or tinted on one side and as approved and as directed by EIC.	60.00	m2	1200.00	72000.00
16	Taking down door shutters with frame or cupboard shutter with frame exceeding 1.50 sqm but not exceeding 4.00sqm each without taking shutter from the frame and handing over the same to CE(E)/Store.	16.00	Each	150.00	2400.00
17	Dismantling structural steel work including doors, gates, windows but excluding framed truss etc.	4.00	Quintal	600.00	2400.00
18	S & F of II class hard wood door & Window frame Plain, Solid straight chowkats wrought, framed rebated on the solid rounded or chamfered put together with glue pined at joints.	.75	m3	90000.00	67500.00
19	Supply and Fixing of 30mm thick Flush door shutter solid core construction with block board core and plywood face panels, commercial type on both sides.	50.00	m2	1400.00	70000.00
20	Supply and fixing of 125mm Butt hinges, extruded aluminium alloy with galvanised mild steel hinge pin, anodised and fixed, type B-21	54.00	Each	200.00	10800.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
21	S&F of Aluminium tower bolts, with barrel of extruded section and rolled or cast bolts and fixed 150 mm long.	36.00	Each	80.00	2880.00
22	S & F of Aluminium handle 150mm length.	36.00	Each	97.00	3492.00
23	Material and Labour for fixing Aluminium Aldrop bolt 300 mm length	18.00	Each	350.00	6300.00
24	Supply and Fixing of pre-printed galvalume aluminium zinc coating GI based corrugated steel sheet 0.50mm (TCT) thick of any clour having tensile strength of 550Mpa as in roof covering /cladding to wall fixed with self tapping screws as specified.	11.00	m2	750.00	8250.00
25	Supply and Fixing of pre-printed galvalume aluminium zinc coating GI based plain steel sheet 0.50mm (TCT) thick of any clour having tensile strength of 550Mpa as in roof covering /cladding to wall fixed with self tapping screws as specified.	2.00	m2	700.00	1400.00
26	Material and Labour for for Providing Antitermite along he external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear meer inlcuidn drilling and plugging holes etc n apron complete all as directed by EIC.	100.00	m	60.00	6000.00
27	Material and Labour for providing Antitermite treatment of soil under existing floors using emulsion @ one litre per hole, 300mm apart including drilling and plugging 12mm dia holes with cement mortar 1:2 (1 cement: 2 coarse sand) to match the existing floors	750.00	m2	165.00	123750.00
28	M & L for painting to wooden surfaces of any description over 10cm width or girth with Two coats of synthetic enamel paint. including preparing new wooden surfaces.	120.00	m2	90.00	10800.00
29	Material and labour for applying two coats of Plastic emulsion on internal wall surfaces including preparation of old wall surfaces complete all as directed.	600.00	m2	80.00	48000.00
30	M&L for painting two coats of exterior emulsion (Make APEX ULTIMA of ASIAN PAINTS) including one coat of priming paint applies after preparation of the old existing treatment.	400.00	m2	130.00	52000.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
31	Supply and fixing of EWC with "P" or "S" trap including bedding valveless syphonic action type 10 litres flushing cistern low level white with inlet ball valve float and handle including bracket Plastic water closet seat, black, closed pattern with flat bottom, and cover and mild steel chromium plated or aluminised hinging device and etc., complete and dismantling the existing IWC	2.00	Each	4500.00	9000.00
32	Supply and Fixing of Health Facet chromium plated (ESS YESS MAKE VICTORIAN	2.00	Each	880.00	1760.00
33	Providing and fixing 600mm wide Wash basin of polished 19mm thick granite slab top of approved shade laid on 25mm thick one side polished cuddupah with cement mortar in between, supported on 25mm thick both sides polished cuddupah verticals as directed, Provide 200mm high front facia & band above the counter top of same shade granite. All exposed surfaces of platform to be finished in same granite slab and all cut-out, exposed edges to be bull nosed with mirror polished. Also include making necessary cut-outs thru counter top. Cost to also include making necessary cut-outs for taking drainage pipes and Nahni traps in raised platform, all completed and finished to satisfactory conditions.	2.00	Each	16000.00	32000.00
34	Supply and fixing of cast copper alloy screwed down, high pressure stop cock /angle cock fancy type chromium olated concealed type of size 15mm	8.00	Each	650.00	5200.00
35	Supply and Fixing of chromium plated cast copper alloy bib cock of size 15mm.	10.00	Each	450.00	4500.00
36	Supply and Fixing of 600x450mmbevelled mirror of selected quality glass mounted on commercial ply wood and fixed to wooden plugs with chromium plated brass screws and cup washers.	2.00	Each	400.00	800.00
37	Supply and Fixing of Swivel Shower of PTMT of any colour for fixing with 15mm pipe (minimum weight 40 gms)	2.00	Each	100.00	200.00
38	Supply and fixing of tubular towel rail 20mm D type 60cm long of aluminium anodized with and including chromium coated brass screws and wooden /plastic cleats.	2.00	Each	400.00	800.00
39	Supply and fixing of soap dish fixed to plugs with chromium plated brass screws.	2.00	Each	200.00	400.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
40	M & L for Cutting chases, pinning in. making good to facings where required and pointing in cement mortar 1:3 to ends or edges of landings, steps, cills, sunshades, shelves, lintels, etc.; and cutting chases for concealed water tubing or concealed conduit wiring, etc., and making good, cutting not exc 10 cm girth	30.00	m	75.00	2250.00
41	Supply and Laying of CPVC 20mm over dia pipes SD 11 & Plain CPVC SDR 11 fittings in trenches complete all as specified.	40.00	m	140.00	5600.00
42	S & F of PVC floor trap 75mm dia outlet of with grating and connecting PVC extension pipe including jointing with solvent cement etc., complete	2.00	Each	130.00	260.00
43	Supply and Fixing of PVC(SWR) pipe of 75mm dia laid in trenches including or in floors including all fittings complete asll as directed.	10.00	m	140.00	1400.00
44	S & F of 20mm dia High density polyethylene pipes (HDPE) of pressure rating 6 kgf/cm2 fixed complete to walls, ceilings or in floors etc.	50.00	m	125.00	6250.00
45	Supply and fixing of PVC(SWR) pipe 110mm bend.	2.00	Each	100.00	200.00
46	Supply and Fixing of PVC(SWR) pipe of 110mm dia laid in trenches including or in floors including all fittings complete asll as directed.	20.00	m	140.00	2800.00
47	Supplying and Fixing of PVC (SWR) gully trap 125/110 mm, setting and jointing with neat cement solvent.	2.00	Each	110.00	220.00
48	Supply and Fixing of 75mm PVC bend	2.00	Each	100.00	200.00
49	S & F of PVC 75mm dia Pipes single socketed, in any length with rubber ring joints laid in trenches or in floors.	15.00	m	140.00	2100.00
50	Supply and Fixing of hot and cold Piller cock 15mm long body fixed on wash basin with all nessary fitting etc(make parryware/Jaguar).	10.00	Number	3500.00	35000.00
51	Supply and Fixing of PVC door frame of size 50mmx47mm made out of 5mm plain colour PVC sheet reinforced with M.S square tube.	10.00	m	300.00	3000.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
52	S & F of Factory made solid panel PVC Door shutter 30mm thick (style) consisting of frame madeout of M.S tubes for top & bottom rails. M.S.Frame shall be covered with heat moulded plain colour PVC 'C' channel having a PVC sheet strip of 20mm width stuck inside with solvent cement for stiles and plain colour PVC sheets for Top rail, lock rail & bottom rail on either side & gap insert for top rail & bottom rail. Panelling of plain colour PVC sheet to be fitted in the M.S.frame welded / sealed to stiles & rails with suitable PVC sheet beading and jointing together and inlciding fixing to frame with hinges, tower bolt, handle all complete and as directed	3.00	m2	2100.00	6300.00
53	Supply and Fixing of extruded Aluminium alloy with brass/bronze hinge pin type C-22 Butt hinges heavy weight 75mm length.	6.00	Each	85.00	510.00
54	Supply a nd Fixing of Aluminium anodized skeleton tower bolts with plate of 100mm length.	4.00	Each	60.00	240.00
55	Supply and Fixing of Aluminium handle fabricated type 100mm length.	4.00	Each	80.00	320.00
56	Supply and Fixing of Aluminium Coat Hooks of soild body of size 175mm to250mm	2.00	Each	60.00	120.00
57	Supply and Fixing of 1000 litres Rotational moulded polyethylene water Tanks(Cylindrical vertical with closed top) hoisted and fixed in position including nipple, ball valve set complete all as direced by EIC.	2.00	Each	8000.00	16000.00
58	Earthwork in post holes of not exceeding 0.50 Cu.m each and getting out in dense/hard soil including removal of earth from the site and filling the low lying area near by.	85.00	Each	400.00	34000.00
59	M & L for P.C.C 1:3:6, C-1 type using 20mm graded aggregated in foundation, grouting of steel structures.	10.00	m3	5100.00	51000.00
60	Supply and fixing of mild steel angles, rod and flat bars and bolt nuts using posts and struts and for stiffness in fencing and gate including cutting tops to shaping drilling holes.	1800.00	KG	95.00	171000.00
61	M & L for painting to steel surfaces of any description over 10cm width or girth with two coats of synthetic enamel paint over a coat of primer including preparing new surfaces.	45.00	m2	105.00	4725.00

Heavy Vehicle Factory Avadi
AVADI, CHENNAI, Tamil Nadu-600054

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
62	Material and labour for chain link fencing made of 8 gauge G.I. wire with 3" aperture and height as directed.	400.00	m2	325.00	130000.00
63	Material and labour for providing reinforcement cement concrete in footings, piles, plinth beam with cement concrete B1 Type 1:2:4 mix using 20 mm graded aggregated.	15.00	m3	5300.00	79500.00
64	Supply and fixing of twisted MS Bars 10mm dia and over, cut to length bent to shape required including cranking, bending, spiraling for hoping for columns, hooking ends and binding with MS Wire not less than 0.9mm dia or securing with clips.	600.00	KG	80.00	48000.00
65	Material and labour for Fe-410 deformed or twisted mild steel bars 6 mm to 8mm dia and over cut to length bent to shape required including cranking, bending spirally for hooping for columns, hooking ends and binding with and including mild steel wire not less than 0.9 mm dia or securing with clips	400.00	KG	82.00	32800.00
66	Material and labour for form work to sides of concrete foundation, bases of column, beam sides and soffits of foundation and plinth beams for Flat surfaces.	130.00	m2	290.00	37700.00
67	Dismantling existing damaged steel structure by gas cutting of the damaged structure and handing over the same to CE (estate) stores.	6.00	Quintal	600.00	3600.00
68	Removal of bushes/shrubs around of fencing works	210.00	m	5.50	1155.00
69	Dismantling of wall paneling boards(fibre, pulp, insulation etc.,) or insulation boards/slabs, blankets of any thickness and removing to CE Stores as directed	82.00	m2	40.00	3280.00
70	Taking down cement plastering on brick or stone walls, etc. including raking out joints, hacking for key, scrubbing down with water, etc.	82.00	m2	110.00	9020.00
71	M & L for plastering in CM 1:4, 15mm thick on fair faces of brick work and concrete surfaces.	82.00	m2	230.00	18860.00
72	Material and Labour for Dubbing out average 10mm thick on irregular face of walls in CM 1:4.	82.00	m2	140.00	11480.00
73	Material and labour for one coat of damp block paint on wall surfaces to arrest dampness on the wall surfaces after preparing the old wall surfaces.	290.00	m2	70.00	20300.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
74	Material and labour for Point wiring with 1.5sqmm FRLS PVC insulated sheathed single core cable 1100V grade confirming to IS 694 multi strand copper conductor along with 2mm thick PVC conduit accessories run on wall/ roof/L angle including M.S. switch box concealed in the wall(made out of 3mm thick sheet) and laminated sun mica sheet 3mm thick cover for housing the switches, regulators and plug socket etc. mount on a wall/roof etc. including 16SWG bare copper earth continuity wire. one light point controlled by one switch light/fan. (Make: Finolux/Havells/Polycab/ Kundan)	156.00	Point	950.00	148200.00
75	Material and labour for Point wiring with 1.5sqmm FRLS PVC insulated sheathed single core cable 1100V grade confirming to IS 694 multi strand copper conductor along with 2mm thick PVC conduit accessories run on wall/ roof/L angle including M.S. switch box concealed in the wall(made out of 3mm thick sheet) and laminated sun mica sheet 3mm thick cover for housing the switches, regulators and plug socket etc. mount on a wall/roof etc. including 16SWG bare copper earth continuity wire. One 3 pin plug socket with switches flush type 5A on same board with 2.5sqmm cable. (Make: Finolux/Havells/Polycab/ Kundan)	130.00	Point	275.00	35750.00
76	Material and labour for Point wiring with 1.5sqmm FRLS PVC insulated sheathed single core cable 1100V grade confirming to IS 694 multi strand copper conductor along with 2mm thick PVC conduit accessories run on wall/ roof/L angle including M.S. switch box concealed in the wall(made out of 3mm thick sheet) and laminated sun mica sheet 3mm thick cover for housing the switches, regulators and plug socket etc. mount on a wall/roof etc. including 16SWG bare copper earth continuity wire. One 3 pin plug socket with switches flush type 5A on Independent board with 2.5sqmm cable. (Make: Finolux/Havells/Polycab/ Kundan)	30.00	Point	1100.00	33000.00
77	Supply fixing and connecting to the system modular type switches 6A single pole one way (Make:,LEGRAND MYRIUS equivalent of Litaski/ Crabtree)	238.00	Each	210.00	49980.00
78	Supply, fixing and connecting to the system of socket, 6A-2/3 pin combined modular type 2 module (Make:,LEGRAND MYRIUS equivalent of Litaski/ Crabtree)	80.00	Each	310.00	24800.00
79	Supply, fixing and connecting to the system modular type switch one way 16A, 1 module (Make:,LEGRAND MYRIUS equivalent of Litaski/ Crabtree)	48.00	Each	305.00	14640.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
80	Supply, fixing and connecting to the system of socket, 6/16A-2/3 pin combined modular type 2 module (Make:,LEGRAND MYRIUS equivalent of Litaski/ Crabtree)	80.00	Each	480.00	38400.00
81	Supply, fixing & connecting of Fan step regulator modular type 120W, 2 module (Make:,LEGRAND MYRIUS equivalent of Litaski/ Crabtree)	20.00	Each	1000.00	20000.00
82	Material & Labour for ceiling rose, 3 Phase/PVC/polycarbonate, isolated body (ANCHOR / LEGRAND/ HAVELLS make).	70.00	Each	60.00	4200.00
83	supply & fixing of lamp holders PVC/polycarbonate type with cord grid cap suitable for pendant/straight / slanding fittings.	6.00	Each	120.00	720.00
84	Supply & fixing of modular white cover plate with frame 2 module	65.00	Each	195.00	12675.00
85	Supply & fixing metal flush box for 2 module plate	65.00	Each	110.00	7150.00
86	Supply & fixing of 4 module modular white cover plate with frame	14.00	Each	235.00	3290.00
87	Supply & fixing of metal flush box for 4 module plate	14.00	Each	165.00	2310.00
88	Supply & fixing of 6 module modular white cover plate with frame	24.00	Each	370.00	8880.00
89	Supply & fixing of metal flush box for 6 module plate	24.00	Each	265.00	6360.00
90	Supply & fixing of 8 module plate with frame	12.00	Each	380.00	4560.00
91	Supply & fixing of MCCB 3 pole 415 Volt, fixed type 125 Amps, with breaking capacity 16KA. Make:Legrand/ ABB / Schneider	2.00	Each	5000.00	10000.00
92	Supply and fixing 240V, 10 KA 'B' curve miniature circuit breaker (MCB) of single poles and current carrying capacity 5 to 32 AMP, in the MCB DB Complete with connection testing and commissioning. (Make:Legrand/ ABB / Schneider)	46.00	Each	260.00	11960.00

Heavy Vehicle Factory Avadi
AVADI, CHENNAI, Tamil Nadu-600054

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
93	Supply and fixing 240V, 10 KA 'B' curve miniature circuit breaker (MCB) of single poles and current carrying capacity 40 AMP, in the MCB DB Complete with connection testing and commissioning. (Make:Legrand/ ABB / Schneider)	5.00	Each	700.00	3500.00
94	Supply and fixing 415V 10KA 'B' curve miniature circuit breaker (MCB) of following poles and current carrying capacity in the DB complete with connection testing and commissioning. TP (Triple pole) 25 To 63 AMP (Make:Legrand/ ABB / Schneider)	8.00	Each	1500.00	12000.00
95	Supply and fixing 415V 10KA 'B' curve miniature circuit breaker (MCB) of following poles and current carrying capacity in the DB complete with connection testing and commissioning. TPN/FP (Four pole) 40 To 100 AMP (Make:Legrand/ ABB / Schneider)	2.00	Each	1970.00	3940.00
96	Material & Labour for wiring with two/four runs of FRLS PVC insulated sheathed single core copper cable upto 1100 volts grade confirming to IS 694 multistrand with copper conductor along with PVC conduit and conduit accessories run on wall/roof one/two run of copper cable as earth wire. 2x1.5 sq.mm+1x1.5 sq.mm earth wire. (Make: Finolux/Havells/ Polycab/ Kundan)	100.00	m	125.00	12500.00
97	Material & Labour for wiring with two/four runs of FRLS PVC insulated sheathed single core copper cable upto 1100 volts grade confirming to IS 694 multistrand with copper conductor along with PVC conduit and conduit accessories run on wall/roof one/two run of copper cable as earth wire. 2x2.5 sq.mm+1x2.5 sq.mm earth wire. (Make: Finolux/Havells/ Polycab/ Kundan)	545.00	m	170.00	92650.00
98	Material & Labour for wiring with two/four runs of FRLS PVC insulated sheathed single core copper cable upto 1100 volts grade confirming to IS 694 multistrand with copper conductor along with PVC conduit and conduit accessories run on wall/roof one/two run of copper cable as earth wire. 2x4.0 sq.mm+1x4.0 sq.mm earth wire. (Make: Finolux/Havells/ Polycab/ Kundan)	685.00	m	205.00	140425.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
99	Material & Labour for wiring with two/four runs of FRLS PVC insulated sheathed single core copper cable upto 1100 volts grade confirming to IS 694 multistrand with copper conductor along with PVC conduit and conduit accessories run on wall/roof one/two run of copper cable as earth wire. 2x6.0 sq.mm+1*6.0 sq.mm earth wire. (Make: Finolux/Havells/ Polycab/ Kundan)	30.00	m	245.00	7350.00
100	Material & Labour for wiring with two/four runs of FRLS PVC insulated sheathed single core copper cable upto 1100 volts grade confirming to IS 694 multistrand with copper conductor along with PVC conduit and conduit accessories run on wall/roof one/two run of copper cable as earth wire. 4x10.0 sq.mm + 1x10.0 sq.mm earth wire. (Make: Finolux/Havells/ Polycab/ Kundan)	40.00	m	525.00	21000.00
101	Material and labour for Brick walls cutting chases,pining in, making good to facing where required and pointing in cement mortor 1:3 to ends and cutting chases for concealed conduit wiring, etc., and making good,cutting exc. 10 cm but not exc. 20 cm girth.	685.00	m	75.00	51375.00
102	Demolition of cement concrete of any description and in any position	2.00	m3	1050.00	2100.00
103	Material and labour for cement concrete 1:2:4 Type B1 using 20mm graded aggregate in foundations, filling and mass concrete.	4.50	m3	4750.00	21375.00
104	Excavating in trenches hard dense soil not exceeding 1.5 m wide and not exceeding 1.5 m in depth for laying cable.	50.00	m3	490.00	24500.00
105	Material & labour for sand filling for cushioning on U.G cable	12.00	m3	1800.00	21600.00
106	Material &labour for Bricks; common burnt clay building bricks sub class B designation 75, Old size bricks for protection to U.G cable	2.50	Per 1000 Numbers	6000.00	15000.00
107	Returning, refilling of hard dense soil in the excavated trench after laying of power cable including spreading levelling, watering and well ramming in layers not exc 25 cm.	50.00	m3	105.00	5250.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
108	Supply, laying or fixing with suitable clamps or passing through pipe, PVC insulated, armoured, heavy duty electric cable with aluminium conductor, 1100 volts grade, cross sectional area 35 sqmm, 4 core.(Make: Finolux/Havells /Polycab /orbit / Gloster)	90.00	m	220.00	19800.00
109	Supply, laying or fixing with suitable clamps or passing through pipe, PVC insulated, armoured, heavy duty electric cable with aluminium conductor, 1100 volts grade, cross sectional area 70 sqmm, 3.5 core.(Make: Finolux/Havells/ Polycab / Gloster)	55.00	m	315.00	17325.00
110	Supply & fixing of galvanised steel tubes, medium grade 150mm dia	24.00	m	750.00	18000.00
111	Supply & fixing of galvanised steel tubes, medium grade 32mm dia	24.00	m	210.00	5040.00
112	Taking down copper/aluminium point wiring (light,fan,socket or power) complete, including fixture and fittings such as switches, ceiling roses, pendants, regulators, sockets, light fitting, exhaust fan etc removing materials to store for keeping in safe custody .	130.00	Each	45.00	5850.00
113	Supply, fixing & connecting to the system of Sheet metal enclosures with double door DB's when MCB'S to be used single pole & neutral 8 way with 200 Amps rated busbar, (Make:Legrans/ ABB / Schneider)	4.00	Each	1650.00	6600.00
114	Supply, fixing & connecting to the system of Sheet metal enclosures with double door DB's when MCB'S to be used Triple pole & neutral 4 way with 200 Amps rated busbar, (Make:Legrans/ ABB / Schneider)	2.00	Each	2400.00	4800.00
115	Supply and fixing LED lights fitting 1x 20W, 220V, AC decorative box type with driver, holder including LED tube light connecting up with three core flexible copper conductor cable of suitable size from ceiling rose complete. Make: PHILIPS / CG /Havells / Wipro.	84.00	Each	1200.00	100800.00
116	Supply and fixing LED light fitting mirror type with high output diffuser 2 feet, 10 watt 220 V AC decorative type with driver holder and LED lamp including connecting up with three core flexible copper conductor cable of suitable size complete. Make: PHILIPS / CG /Havells / Wipro.	2.00	Each	1315.00	2630.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
117	Supply and fixing of exhaust fan, steel body AC single Phase. 230V of size 300mm sweep with, blades, and frame and louvers Make : Almonard / Kaithan / Usha / CG	4.00	Each	3090.00	12360.00
118	Supply & fixing of MCBDB 4 way(DPX160+12) legrand make asper legrand 2010 catalogue No.607790 or Equivalent model of ABB/Schneider	2.00	Each	10500.00	21000.00
119	Supply and fixing of LED ceiling/Recessed mounting fitting complete with suitable LED lamp and accessories, Wattage 24 to 30 watts and minimum system output 1800 lumens. Make: PHILIPS / Bajaj /CG /Havells / Wipro.	6.00	Each	3150.00	18900.00
120	Supply of Recessed Mounted circle type Luminarie, 15 Watts with suitable LED lamp and accessories, minimum system output: 1000 lumens. Make: PHILIPS or equivalent of Bajaj/CG/Havells/Wipro.	22.00	Each	1300.00	28600.00
121	Supply, fixing and connecting to the system modular type switch one way 20A, Single pole 2 module. ((Make:LEGRAND MYRIUS or equivalent of LITASKI / CRABTREE)	32.00	Each	225.00	7200.00
122	Supply & fixing metal flush box for 8 module plate	12.00	Each	175.00	2100.00
123	Supply & fixing of 12 module plate with frame and metal flush box	18.00	Each	365.00	6570.00
124	Supply & fixing of 16 module plate with frame and metal flush box	10.00	Each	425.00	4250.00
125	Supply & fixing of modular type Dummy plate	105.00	Number	22.00	2310.00
126	Supply, fixing & connecting of the system cable end termination of size 35 sqmm 4 core including with suitable cable gland & lugs.	12.00	Set	200.00	2400.00
127	Supply, fixing & connecting of the system cable end termination of size 70 sqmm 3.5 core including with suitable cable gland & lugs.	6.00	Set	490.00	2940.00
128	Supply and fixing of ceiling fan of 1200mm size. (Make: Orient/USHA/Crompton Greaves).	20.00	Each	2200.00	44000.00

Item code	Item Description	Quantity	Unit	Rate/Unit	Amount
129	Supply and fixing of LED Bollard light fitting complete with 11 watts LED lamp and accessories. Height 500MM Make:Klite circo cutoff Bollard Cat.no.6964 or equivalent model in Philips/ CG/ Havells)	60.00	Each	5150.00	309000.00
130	Supply and fixing of LED Gate light fitting complete with 30 watts LED lamp and accessories. (dia.425mm x 325mm) Make: Klite. (Cat.no.4975 or equivalent model of HAVELLS, PHILLIPS, CG, WIPRO)	10.00	Each	8500.00	85000.00
131	Supply & fixing of LED, street light fitting with pipe and clamps complete, minimum 7000 Lumens, power consumption 72 watts(maximum). Make: PHILIPS /GE/ WIPRO /CG/OSRAM /BAJAJ/ HAVELLS/ SYSKA	10.00	Each	7000.00	70000.00
132	Supply, laying or fixing with suitable clamps or passing through pipe, PVC insulated, armoured, heavy duty electric UG cable with copper conductor, 1100 volts grade, cross sectional area 2.5 sqmm, 4 core. (Make: Havells / Gloster / Polycab)	625.00	m	115.00	71875.00
133	Supply and fixing of LED Flood light fitting, 200W, cool day white,min 18000 lumens output, IP65 protection make: phillips model BVP184XX200WPSU or equivalent or wipro/havells/CG /KLite	8.00	Each	23500.00	188000.00
134	Supply & Fixing of OUT DOOR FPB consisting of 200A MCCB-1 No for incoming, outgoing feeders are 63A MCCB-4 Nos. Specification sheet enclosed as annexure - 1(1.0.1 to 1.0.9.5).	1.00	Set	215000.00	215000.00
Gross Total of Items in Rs.					52,56,922.00

(K. TULASI RAO)

JT. GENERAL MANAGER / IMS, EO & GS

For CHIEF GENERAL MANAGER / HVF

For And On Behalf Of THE PRESIDENT OF INDIA

TERMS & CONDITIONS:

1. Special condition: The material required for the subject work which be brought inside the factory by contractors should be noted along with challan / vouchers etc., and a copy of the same are to given to the engineering office for record and copy to be submitted to the contractors along with the bill while claiming the payment.
2. Payment clause: The contractor has to pay the minimum daily wages to the skilled/semi skilled/unskilled labourers engaged in their work as has been specified by the Government, latest rate and displayed in the wages notice Board at factory.
3. Safety Clause: Annexure-A of MES Safety Code, IAFW2249 must be observed in general, Work permit shall be obtained for overhead/hazardous work condition. All the safety precautions/measures have to be taken by the contractor. However, a few points of safety measures to be followed for working at height and on the roof are mentioned hereby:

Use of safety belt and helmet of proper quality is mandatory for all workers working on roofs at height of above 5.00 meters and also in the underground areas. Safety belt with life line should be properly tied at some firm support in.

- (i) In case any difficulty is faced in proper fastening and securing of safety belt, a safety net may be provided below the work spot so that in case of accident fall, there might not be any fatality.
- (ii) A crawling ladder or roof walker must be used for movement on Asbestos/CGI roofing.
- (iii) Work permit system should be followed in proper spirit. Contractors shall start the work after obtaining the Work permit. Wherever applicable, Contractor's supervisor and site-in-charge should brief on safety precautions to be observed by the workmen before start of the work. The workers should be clearly explained about the danger of standing or sitting on an apparently stout & new and neat looking asbestos/CGI sheet which is intrinsically weak.
- (iv) The contractor shall clear the site after completion of work.
- (v) The contractor must employ the labour force duly insured life risk.
- (vi) The contractors shall ensure compliance of all applicable statutory rules and regulations.

4 DEVIATION CLAUSE:

- (i) $\pm 25\%$ of value of individual item other than freakishly rate quoted items.
- (ii) For freakishly higher or lower rate quoted items it shall be $\pm 5\%$.
- (iii) 20% of work order value (Contract value maximum Rs.10 lakhs)
- (iv) 10% of work order value (Contract value exceeding Rs.10 lakhs)



(K. TULASI RAO)

JT. GENERAL MANAGER / IMS, EO & GS

For CHIEF GENERAL MANAGER / HVF

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