

ACCEPTANCE LETTER No: MINUTES OF CWC - II HELD ON 17-10-2024

To

M/s. MSK CONSTRUCTION,
No. 120, FIRST STREET, SANIPOONDI,
TIRUVANNAMALAI TALUK,
TAMIL NADU - 606755

Dear Sirs,

Type of Work: ITEM RATE

Sub : **SPECIAL REPAIRS FOR DAMAGED / RENOVATION OF METALLURGICAL LABORATORY AT OLD FACILITY IN HVF, AVADI.**

Ref: (i) Fy Tender No.HVF/TE/13025/CEO/2024-25/14, dated 13-06-2024 with Tender ID:2024_AVNL_198307_1
(ii) Your Bid: 714452 in this tender, Price revision offered vide email & letter dated 17-10-2024 and Quality Confirmation offered vide letter dated 18-09-2024 received vide email dated 25-09-2024.

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. 1,15,77,659 /-** (Rupees One Crore Fifteen Lakhs Seventy Seven Thousand Six Hundred and Fifty Nine 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/18/2024-25/CAP., dated 01-11-2024** 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. 2,38,800 /- (Rupees Two Lakhs Thirty Eight Thousand and Eight Hundred Only) in favour of "The Chief General Manager, Heavy Vehicles 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 documents 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. G. Ananda Kumar, WM / IMS is nominated as Engineer-in-Charge for the subject work. Shri. E. UmaShankar, JWM/IMS/CE(Fy) 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)

GENERAL MANAGER

For CHIEF GENERAL MANAGER / HVF

For And On Behalf Of THE PRESIDENT OF INDIA

Copy to :

1. GM / HR, F&A, IMS, HVF, Avadi, Chennai – 600054
2. Shri. Pranjit Bhagabati, DGM / IMS - Technical Examiner
3. Shri. G. Ananda Kumar, WM / IMS - Engineer -In Charge
4. Shri. E. UmaShankar, JWM/IMS/CE(Fy) - Site -In Charge

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

Work Order/Deviation Order No	HVF/CE/18/2024-25/CAP., dated 01-11-2024
Acceptance letter No.	MINUTES OF CWC - II HELD ON 17-10-2024
Contractor's Name	M/s. MSK CONSTRUCTION
Name of the work	SPECIAL REPAIRS FOR DAMAGED / RENOVATION OF METALLURGICAL LABORATORY AT OLD FACILITY IN HVF, AVADI.
CA Amount	Rs. 1,15,77,659 /-
PARTICULARS	
1. Authority	CWC decision of Fy. LEVEL CWC - II
2. Brief Description of work to be carried out	As per details in sheet attached and adhering to your firm Bid No.714452 in this tender and Price revision offered vide email & letter dt 17-10-2024 and Quality Confirmation offered vide letter dt 18-09-2024 received vide email dt 25-09-2024 in HVF Tender; HVF/TE/13025/CEO/2024-25/14, dt 13-06-2024 with Tender ID:2024_AVNL_198307_1 for all Terms & Conditions therein & rate quoted in Schedule 'A' enclosed with tender documents.
3. Time effect	
a. Date of handing over of the site	14/11/2024
b. Date of commencement of work	14/11/2024
c. Date of Completion as per contract	14/11/2025
d. Date for completion shown in previous Orders	NA
e. Revised date of completion	NA
4. Financial effect (Rs.)	
a. Present order	Rs. 1,15,77,659 /-
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 (Under Capital Civil Works Grant)
6. Certified that no special rate is involved	
7. Technical Examiner	Shri. Pranjit Bhagabati, DGM / IMS
8. Approved	Shri. K. Tulasi Rao, General Manager
9. Accepted	M/s. MSK CONSTRUCTION



(K. TULASI RAO)

GENERAL MANAGER

For CHIEF GENERAL MANAGER / HVF

For And On Behalf Of THE PRESIDENT OF INDIA

Distribution to :--

- 1) M/s. MSK CONSTRUCTION
- 2) GM / HR, F&A, IMS, HVF, Avadi, Chennai – 600054
- 3) Sr. Security Officer
- 4) Shri. Pranjit Bhagabati, DGM / IMS - Technical Examiner
- 5) Shri. G. Ananda Kumar, WM / IMS - Engineer -In Charge
- 6) Shri. E. UmaShankar, JWM/IMS/CE(Fy) - Site -In Charge
- 7) HOS/IMS/CE(Fy), 8) HOS/Safety, 9) HOS/Internal Audit cell, 10) HOS/Test Audit, 11) ALWC, 12) HOS/QA(ML)
- 13) Chief Commissioner of Central Excise, 26/1, Mahatma Gandhi Road, Nungambakkam, Chennai – 600034.
- 14) Dy.Chief Labour Commissioner(c), No:26, III Block, 5thfloor,Shastri Bhavan, Haddows Road, Nungambakkam,Chennai – 600006.

Name of the work:	SPECIAL REPAIRS FOR DAMAGED / RENOVATION OF METALLURGICAL LABORATORY AT OLD FACILITY IN HVF, AVADI.
Contract Agreement No:	<u>HVF/CE/18/2024-25/CAP., dated 01-11-2024</u>

SCHEDULE – “A”					
Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
1	Removal of existing Roof treatment of any type including the weathering course of any depth provided in any type of concrete by demolition till the mother concrete old R.C.C Roof top is visible and removal of the top coating/bitumen/lime concrete track from the roof so that the old concrete top surfaces is fully clam/fresh to receive any further new treatment. This rate including complete work as specified above including removal of the debris from the roof top and cleaning the area neat & clean, removal of the debris to a location specified (not less than 1km from the site) and filing the low laying area including spreading the heaps to have uniform surface which will not affect the flow of water to nearly low being area/catchment area.	900.00	SqM	210.00	189000.00
2	Material and labour for providing a cement concrete layer average thickness 55mm using B0 type concrete and finishing the surface.	450.00	SqM	450.00	202500.00
3	Supply of liquid waterproofing compound for plastering in roof surfaces. The make of liquid waterproofing compound should be got approved by E-I-C.	25.00	Per Litre	275.00	6875.00
4	Protection of Membrane Providing and laying Protective layer of 210 GSM Geotextile before laying the protection screed.	900.00	SqM	95.00	85500.00
5	Supply and application of Polyurethane based sealant for filling of visible cracks up to 10mm width and 5mm depth. PU sealant material shall have elongation more than 700%. The contractor shall use Hyperseal expert 150 of Alchemica / sealArm PU of MYK Arment / SNF one plus P590 of Bostik / Masterseal NP 473 U of Master Builders Solutions / Cipoxy 16D of Dr. Fixit (or) Suitably Equivalent make as approved by EIC and finishing the top surface.	250.00	RM	260.00	65000.00
6	Supply and application of seamless Polyurethane (PU) based elastomeric coating exposable to atmosphere. The work consisting; a) Supply & Application of PU based primer minimum of 100gms per SQM b) Supply & application of seamless PU based elastomeric coating over a primer coat to achieve a thickness of 1.50mm DFT in two coats, with an application rate of minimum 2.1 kg/Sq.M, having minimum solid content(ASTM 836) of more than 85% and elongation also more than 400% c) Supply & application of Protective UV top coat @ 0.25 kg/sq.m (The Contractor Shall use the material from the reputed manufacturers such as" Master Builders Solution" "MYK Arment", Dr. Fixit", Alchimica", "Bostik" and "Tecnopol" (or) Suitably Equivalent make as approved by EIC).	900.00	SqM	1100.00	990000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
7	Demolition of cement Concrete in ground floors and pavings n exc 15 cm thickness (below or above ground level).	80.00	CuM	1450.00	116000.00
8	Demolition of brickwork or stone/boulder masonry, built in cement motor.	8.00	CuM	620.00	4960.00
9	Dismantling of asbestos cement (corrugated, semi corrugated, etc.,) sheets in roof coverings.	80.00	SqM	37.00	2960.00
10	Dismantling of floor, hearth or wall tiling including cement mortar bedding (but not backing), removing serviceable tiles to store and rubbish off the premises.	1200.00	SqM	95.00	114000.00
11	Dismantling boarding, any description, fixed in any position with nails.	60.00	SqM	37.00	2220.00
12	Dismantling structural steel work including doors, gates but excluding framed truss etc.,	2.00	Quintal	650.00	1300.00
13	Taking down wooden door frame with shutter exc 1sq.m and n.exc 2 sq.m each and handing over the same to CE(STORES).	16.00	Each	95.00	1520.00
14	Taking up or down steel tubing 25 or 32 mm dia pipe and connections, including cleaning for refixing or removal to store.	75.00	RM	42.00	3150.00
15	Taking up or down steel tubing of bore 20mm and connection including cleaning for refixing or removal to CE/E store. (Including all accessories).	75.00	RM	38.00	2850.00
16	Taking up or down steel tubing of bore 15mm and connection including cleaning for refixing or removal to CE/E store. (Including all accessories).	50.00	RM	32.00	1600.00
17	Cutting chases, pinning in making good to facing where required and pointing in cement mortar 1:3 for water tubing etc., and making good, cutting not exceeding 10cm girth in brick wall.	200.00	RM	52.00	10400.00
18	S & F of mild steel bars (6 TO 8 MM) dia TMT bars dia, 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 (annealed) not less than 0.9mm dia or securing with clips.	100.00	KG	90.00	9000.00
19	Material and labour for cement concrete 1:2:4 Type B2 20mm graded aggregate in foundation filling and mass concrete.	220.00	CuM	8500.00	1870000.00
20	M & L for form work to side and soffit (circular / curved) of RCC Member such as foundation, plinth beam, RCC wall etc., and the finishing shall be of fair finished surface.	250.00	SqM	480.00	120000.00
21	M & L for Moorum/red bajri filling in floors or pavings, laid in layers n exc. 15 cm thick, spread, levelled and rammed including watering.	20.00	CuM	1300.00	26000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
22	Material and Labour for forming 10mm thick Expansion joints with High Resilient Non Bituminous Joint Filler Board filled with either of the polysulphide or Polyurethane joint sealant from approved source shall be used in new rigid pavement. The criteria for selection of the joint sealant will depend on the minimum performance guarantee of ten years offered by the firm, provided.	20.00	10 RM	4200.00	84000.00
23	Surface excavation soft/disintegrated n. exc (not exceeding) 30 cm deep and averaging 15cm deep and getting out.	1300.00	SqM	180.00	234000.00
24	Dismantling structural steel work including door, gates but excluding frame truss etc.	5.00	Quintal	650.00	3250.00
25	Supply and fixing of framed work using Fe 410 -W A quality mild rolled steel tube, angles, plates etc., including cutting, welding etc., complete.	500.00	KG	130.00	65000.00
26	Material and labour for painting steel surfaces of any description over 10cm width or grith with two coats of synthetic enamel paint over a coat of primer including preparing new surfaces.	60.00	SqM	19.00	1140.00
27	Material and labour for brick work built in CM 1:6 using sub-class "B" bricks, straight or curved on plain exc 6m mean radius.	8.00	CuM	5100.00	40800.00
28	Taking down cement plaster on brick or stone walls, tiles etc., including raking out joints, hacking for key, scrubbing down with water, etc.,	600.00	SqM	100.00	60000.00
29	M & L for Dubbing in CM 1:4, 10mm thick on faces of old brick work and concrete surfaces.	600.00	SqM	165.00	99000.00
30	M & L for plastering in CM 1:3, on fair faces of ceiling to 12mm thick.	80.00	SqM	270.00	21600.00
31	M & L for plastering in CM 1:4, 15mm thick on fair faces of brick work, concrete surfaces and Door & Window Jamb plastering.	800.00	SqM	275.00	220000.00
32	Supply and Fixing of Vitrified Ceramic tiles (Dark Shade) 10 mm thick (square / rectangular) polished, area of each tile not exceeding 0.36 sqm, 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.	600.00	SqM	1720.00	1032000.00
33	Supply and Fixing of dark shade Vitrified Ceramic tiles 10 mm thick (square / rectangular) polished, area of each tiles not exceeding 0.36 sqm, in floors/wall etc. 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.	650.00	SqM	1710.00	1111500.00
34	Material and labour for Acid resistant tiles 15mm thick vitreous ceramic, unglazed, set, jointed and pointed in chemical resistant mortar, resin type, in floors.	100.00	SqM	2950.00	295000.00
35	S&F Pre-painted galvalume aluminum zinc coating GI based corrugated steel sheet 0.50mm thick of colour having tensile strength of 550 Mpa as in roof covering/cladding to wall, fixed with self-tapping screws as specified.	150.00	SqM	800.00	120000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
36	S&F Plain, Solid, Straight, Chowkats and Frames, Wrought, framed rebated on the solid, rounded or chamfered, put together with glue pinned at joints, supplied and fixed. (2nd Class Hardwood).	1.00	CuM	124999.00	124999.00
37	S&F of Flush, door shutters 30mm thickness, solid core construction with block, board core and plywood face panels, commercial type on both sides.	35.00	SqM	1700.00	59500.00
38	S & F of frame size 65X100mm factory made single extruded WPC (wood polymer composite) solid door/ window/ clerestory window & desertory other frames/chowkat comprising of virgin PVC polymer of k value 58-60 (suspension grade), calcium carbonate and natural fiber(wood power) /rice husk / wheat husk and non-toxic additives (maximum toxicity index of 12 for 100mgs) fabricated with miter joints after applying PVS solvent cement screwed with full body threaded star headed SS screws having minimum frame density of 750kg/cum, screw withdrawal strength of 2200 N (face) & 1100 N (edge) minimum compressive strength of 58 N/mm ² , modulus of elasticity 900 N/mm ² and resistance to spread of flame of class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with MS hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of engineer-in-charge. (MS holdfast / lugs or SS fasteners shall be paid for separately).	25.00	RM	1700.00	42500.00
39	S&F of 30mm thick factory made single extruded WPC (wood polymer composite) solid plain flush door shutter of required size, comprising of virgin polymer of k value 58-60 (suspension grade), calcium carbonate and natural fiber(wood powder)/rice husk/wheat husk and non-toxic additives (maximum toxicity index of 12 for 100mgs) having minimum density of 650kg/cum, screw withdrawal strength of 1800 N (face) & 900 N (edge) minimum compressive strength of 50N/mm ² , modulus of elasticity 850N/mm ² and resistance to spread of flame of class A category with property of being termite / borer proof, water / moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star head counter sunk SS screws, all as per direction of engineer-in-charge.	8.00	SqM	1260.00	10080.00
40	Supply and fixing of holdfast made out of 25 X 6 mm flat fixed to window frame.	40.00	KG	190.00	7600.00
41	S/F of Aluminium anodised, Barrel tower bolts (150mm) of extruded section and fixed.	15.00	Each	80.00	1200.00
42	S/F of butt hinges (125mm) cast, brass with stainless steel hinge pin, bright polished and fixed but type B-12.	45.00	Each	285.00	12825.00
43	S/F of Aluminium handles (150 mm), cast type, anodised	29.00	Each	80.00	2320.00
44	S&F aluminium alloy, anodised, sliding door bolt 200 mm with hasp, staple (bolt type) and fixing clips of sheet, cast or extruded sections and fixing bolts and sliding bolts of extruded sections or cast-aluminium alloy and fixed.	11.00	Each	80.00	880.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
45	Supply and Fixing of 600 mm x 450 mm beveled edge mirror of selected quality glass, mounted on 6mm thick AC building board or commercial plywood and fixed to wooden plugs with chromium plated brass screws and cup washers.	4.00	Each	580.00	2320.00
46	S & F of Anodised aluminium window and ventilator shutters, side fixed type without sash bars, aluminium sections weighing 0.55 kg/m including necessary joining cleats, glazing clips, rubber packing, anodised aluminium snap beading, screws, complete all as specified.	20.00	SqM	1350.00	27000.00
47	S & F of 5.5 mm thick sheet glass ordinary quality and glazing with oil putty in square not exceeding 0.50 Sq.m in each pane.	15.00	SqM	970.00	14550.00
48	S & F of aluminium grill fixed with 'F' type aluminium channel complete.	40.00	KG	490.00	19600.00
49	Cutting out cracks to V-section in existing roofs or terracing, cleaning out, wetting, grouting with cement and sand slurry 1:3	100.00	RM	100.00	10000.00
50	Supply and laying of CPVC pipes 40 mm outer diameter SDR 11 & Plain CPVC SDR 11 fittings on walls/ceiling or laying in floors complete all as specified.	50.00	RM	650.00	32500.00
51	Supply and laying of CPVC pipes 25 mm outer diameter SDR 11 & Plain CPVC SDR 11 fittings on walls/ceiling or laying in floors complete all as specified.	75.00	RM	345.00	25875.00
52	Supply and laying of CPVC pipes 20 mm outer diameter SDR 11 & Plain CPVC SDR 11 fittings on walls/ceiling or laying in floors complete all as specified.	75.00	RM	230.00	17250.00
53	Supply and Fixing of Vitreous China urinals, bowl type flat back of size 465 X 355 X 265 mm white including providing and fixing plugs, bedding urinal against wall in cement mortar 1:2, securing urinal to plugs with and including 60mm long brass screws, pointing around urinal back in cement; including connector pipe, stop cock 15 mm and waste pipe and removing old damaged urinal etc., complete.	3.00	Each	2320.00	6960.00
54	Supply and Fixing of swivel shower of PTMT any colour for fixing with 15mm pipe. (Minimum weight 40gms)	3.00	Each	120.00	360.00
55	Supply and fixing of vitreous China wash basin, white, flat back, size 580 x 450 Wash basins, Vitreous China (flat back or angle back type) any size, including cutting for and pinning in ends of brackets or erecting stand fixed in repair Waste fittings, brass, chromium plated for glazed ware sinks, basins, etc. with long screwed shanks and fly-nuts, flange end bedded in red lead cement and other end fixed Pillar taps, cast copper alloy, with capstan heads, chromium plated, screwed down high pressure, with or without lettered 'Hot' or 'Cold' with long screwed shanks and fly-nuts, screwed for iron pipe and fixed.	4.00	Each	2540.00	10160.00
56	Supply and Fixing of vitreous china Squat pan Orissa pattern size 580 x 440 mm with "P" or "S" trap including provision of lime concrete bedding high level flushing cistern 10 litres flush out pipes etc., complete and dismantling existing IWC complete.	5.00	Each	5700.00	28500.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
57	Supply and fixing of EWC with "P" or "S" trap including bedding valveless syphonic action type flushing cistern 10 liter low level white with inlet ball valve float and handle including bracket etc., complete and dismantling the existing EWC.	3.00	Each	7300.00	21900.00
58	Supply & Fixing of PTMT health faucet with 1.5 M long hose and approved colour.	3.00	Each	710.00	2130.00
59	S & F of 15mm Bib Taps, cast copper alloy with crutch or butterfly handle, screwed for iron pipe or for brass ferrule fancy type and chromium plated.	8.00	Each	625.00	5000.00
60	S & F of 20mm Angle/Stop Taps, cast copper alloy with crutch or butterfly handle, screwed for iron pipe or for brass ferrule fancy type and chromium plated.	15.00	Each	420.00	6300.00
61	M & L for PVC gully trap 125/110mm setting and jointing with grating plate.	5.00	Each	280.00	1400.00
62	M & L for PVC floor trap 75mm dia outlet of with grating and connecting PVC extension pipe including jointing with solvent cement etc., complete	5.00	Each	235.00	1175.00
63	S & F of PVC 75mm dia Pipes single socketed, in any length with rubber ring joints laid in trenches or in floors.	75.00	RM	170.00	12750.00
64	S & F of PVC (SWR) 110mm dia Pipes single socketed, in any length with rubber ring joints laid in trenches or in wall.	100.00	RM	200.00	20000.00
65	S & F of PVC (SWR) 160 mm dia Pipes single socketed, in any length with rubber ring joints laid in trenches or in wall.	150.00	RM	500.00	75000.00
66	S & F of PVC Bend with door 75 mm dia any radius.	25.00	Each	150.00	3750.00
67	S & F of PVC Bend with door 110mm dia any radius.	25.00	Each	180.00	4500.00
68	S & F of PVC Tee with door 110mm dia any radius.	10.00	Each	575.00	5750.00
69	S & F of Gun-metal (32mm), globe or gate valves, with iron wheel head, screwed both ends for iron pipe and fixed.	2.00	Each	700.00	1400.00
70	S & F of Gun-metal (25mm), globe or gate valves, with iron wheel head, screwed both ends for iron pipe and fixed.	2.00	Each	610.00	1220.00
71	S & F of 20mm Ball valves set Ball valves high pressure of PTMT with epoxy coated Aluminium rod & high density plastic ball screwed for iron pipe and fixed. (Minimum weight 20mm - 210 gms).	4.00	Each	450.00	1800.00
72	M & L for Machine pressed precast concrete interlocking paver block any shape and size confirming to IS 15658-2006 of 60 mm thickness, M-35 Grade with Grey Cement and Pigment.	110.00	SqM	810.00	89100.00
73	S&F of Rotational moulded polyethylene water storage tanks (cylindrical vertical with closed top) hoisted and fixed in position all as specified (750 litres)	4.00	Each	6600.00	26400.00
74	Dismantling Wall and ceiling boards (fibre, pulp, insulation, etc.) or insulation boards/slabs/ blankets, any thickness, including cover fillets.	380.00	SqM	45.00	17100.00
75	Supply and fixing of Anodised aluminium snap grid frame work for false ceiling all as specified.	380.00	SqM	510.00	193800.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
76	Material and Labour for exposed metal frame ceiling with calcium silicate board (8mm) of siliceous and calcareous material reinforced with cellulose fibre for fixing in 600 mm x 600mm grid (Frame work for ceiling shall be measured and paid separately)	380.00	SqM	420.00	159600.00
77	Material and labour for painting calcium silicate board in ceiling with one coat of primer over two coat of internal emulsion preparation of new surfaces.	380.00	SqM	150.00	57000.00
78	Material and labour for applying two coats of internal emulsion paint with one coat primer on internal wall of old painted surfaces all complete.	300.00	SqM	150.00	45000.00
79	Material and labour for applying two coat of exterior plastic emulsion on external wall surfaces (two storey building) all complete. MAKE:- (ASIAN Paint (ACE), Equivalent in NEROLAC, BERGER (Weather coat) (or) Suitably Equivalent make.	300.00	SqM	150.00	45000.00
80	Material and labour for white washing on ceiling with two coats including preparation of new ceiling surfaces.	100.00	SqM	25.00	2500.00
81	Material and labour for painting two coats of synthetic enamel paint with one coat primer on new wood surfaces including preparation of new surfaces.	100.00	SqM	150.00	15000.00
82	M & L for Providing and injecting chemical emulsion for Post Constructional Anti-termite Treatment along external / internal wall where the apron is not provided using chemical emulsion at the rate of 7.5 litres per sq.m of the vertical surface of the sub-structure to a depth of 300mm including excavating channel along the wall and rodding etc., complete.	400.00	SqM	295.00	118000.00
83	Material and labour for granite (of any type) tiles 20mm thick machine cut, bedded and jointed with grey cement slurry and pointed with white cement with admixture of pigment to match the shade of granite stone including grinding and polishing complete.	39.00	SqM	2500.00	97500.00
84	M & L at points of contact of wood work by chemical emulsion (in oil or kerosene based solution) @ 0.5 litre/hole by drilling 6mm dia holes at a downward angle of 45 degree at 150mm centre to centre and sealing the same.	200.00	RM	85.00	17000.00
85	Removal of excavated rocks exceeding 250m but not exceeding 500m and depositing where directed.	350.00	CuM	340.00	119000.00
86	Material and labour for aluminium composite panel 3mm thick with wooden finish/plain colour fixed on aluminium section of size 50 x 25 mm.	5.50	Per Sqm	780.00	4290.00
87	Supply and fixing of acrylic letters 300mm height with LED lights.	49.00	Each	8950.00	438550.00
88	M & L for plastering in CM 1:6, 20mm thick on fair faces of brick work, concrete surfaces and Door & Window Jamb plastering.	1010.00	SqM	310.00	313100.00
89	Supply & Fixing of One light point or one fan point wiring controlled by one switch with PVC single core cables 1.5 sq. mm size in PVC conduit.	160.00	Per Point	1300.00	208000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
90	Supply & Fixing of Wiring for circuit / sub main wiring along with earth wire 2 x 2.5 Sq.mm PVC insulated copper conductor single core cable surface/recessed as required in PVC conduit along with earth wire size 1 x 2.5 Sq.mm including PVC conduit & accessories.	700.00	RM	195.00	136500.00
91	Supply & Fixing of Wiring for circuit / sub main wiring along with earth wire 2 x 4.0 Sq.mm PVC insulated copper conductor single core cable surface / recessed as required in PVC conduit along with earth wire size 1 x 4.0 Sq.mm including PVC conduit & accessories.	600.00	RM	225.00	135000.00
92	Material & Labour for PVC rectangular block for mounting, switches, sockets, fan regulator etc. with 3mm thick plastic laminated sheet cover of size 350 x 300 x 50 mm deep.	100.00	Each	180.00	18000.00
93	Material & Labour for switch socket outlet 2 in 1, 6 amp, flush type, 240 volts, AC.	30.00	Each	390.00	11700.00
94	Material & Labour for Switch socket combination 6A/16A, 5 in 1, flush type.	320.00	Each	310.00	99200.00
95	Material & Labour for switch piano flush type, 6 amps, single pole, one way. Make: ANCHOR/ HAVELS/ Legrand/ Schneider/GM (or) Suitably Equivalent make.	160.00	Each	125.00	20000.00
96	Supply and fixing LED luminaire 600 mm x 600 mm, 35/36 watt, 220 V AC recessed type with high efficiency PMMA diffuser soft glare free light complete with driver, holders & LED lamp suitable for roof ceiling including connecting up with driver three core flexible copper conductor cases of suitable size complete. Make: Philips/ Havells/ Osram (or) Suitably Equivalent make.	75.00	Each	4500.00	337500.00
97	Material & Labour of 3 Phase PVC/Polycarbonate, isolated ceiling rose. Make: ANCHOR/ HAVELS/ ZEN/ KUNDAN (or) Suitably Equivalent make.	190.00	Each	70.00	13300.00
98	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 exc 20 cm girth (Brick Wall).	500.00	RM	60.00	30000.00
99	Supply & fixing Double pole enclosure with a two pin and earth plug and socket complete with one single pole MCB 240 V 20amp.	60.00	Each	2200.00	132000.00
100	Supply & fixing of Four pole Isolator, 415V, 100A	20.00	Each	2300.00	46000.00
101	Supply & fixing of 240V Isolator SP 40A, Make: STANDARD/ HAVELLS/ SIEMENS/ LEGREND (or) Suitably Equivalent make.	150.00	Each	380.00	57000.00
102	SHEET METAL ENCLOSURES FOR DB'S WHEN MCBs Double Door Supplied & fixed Triple pole & neutral 12 way.	4.00	Each	2800.00	11200.00
103	Supply and fixing ceiling fans complete with blades, down rods, electronic regulator and accessories, 230 V, 1200 mm sweep. Min air delivery 210 CFM with service value 6.00 BEE. Five star rated with brushless direct current motor (BLDC)	55.00	Each	2800.00	154000.00
104	Supply & fixing of GI Pipes heavy class, 25 mm dia.	55.00	RM	360.00	19800.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
105	Supply and fixing of Double door sheet metal enclosure for DB's when MCB 's to be used Triple pole and neutral 8 way, 415 volt, AC. Make: STANDARD/ HAVELLS/ SIEMENS/ LEGREND (or) Suitably Equivalent make.	4.00	Each	2775.00	11100.00
106	Supply and fixing of Double door sheet metal enclosure for DB's when MCB 's to be used Triple pole and neutral 6 way, 415 volt, AC. Make: STANDARD/ HAWELS/ SIEMENS/ LEGREND (or) Suitably Equivalent make.	8.00	Each	2775.00	22200.00
107	Supply and fixing of Double door sheet metal enclosure for DB's when MCB 's to be used Triple pole and neutral 4 way, 415 volt, AC. Make: STANDARD/ HAWELS/ SIEMENS/ LEGREND (or) Suitably Equivalent make.	40.00	Each	2775.00	111000.00
108	Supply and fixing of exhaust fan, steel body AC single Phase. 230V of size 300mm sweep with, blades, and frame and louvers. Make: USHA/ HAVELLS/ BAJAJ/ CROMPTON (or) Suitably Equivalent make.	15.00	Each	3750.00	56250.00
109	Taking down carefully copper / aluminum point wiring (light, fan, socket or power) complete, (fittings such as switches, ceiling roses, pendants, regulators, sockets etc., to be measured separately), removing materials to store for keeping inside safe custody for reuse at site and making good disturbed surfaces of walls, floors, etc.,	140.00	Per Point	250.00	35000.00
110	Taking down carefully unscrewing from boards/outlet boxes, fittings and fixtures such as switches sockets, ceiling roses, lamp holders, brackets, ceiling fittings, bulk head fittings, tube light fittings and regulators, etc. for reuse at site or carrying to the store (To be measured only when found serviceable in all respects complete for reuse).	140.00	Per Point	37.00	5180.00
111	Supply and fixing of single door sheet metal enclosure for DB's when MCB 's to be used single pole and neutral 2 way without bus bar, 240 volt, AC. Make: STANDARD/ HAWELS/ SIEMENS/ LEGREND (or) Suitably Equivalent make.	10.00	Each	553.00	5530.00
112	Supply & fixing of isolator single pole with neutral upto 40A 240V A.C. Make: STANDARD/ HAWELS/ SIEMENS/ LEGREND (or) Suitably Equivalent make.	20.00	Each	450.00	9000.00
113	Supply and fixing round shape 15 watt 220 volts AC recessed type with high efficiency PMMA diffuser soft glare free light complete with drivers, holders, LED lamp suitable for roof ceiling including connecting up with three core flexible copper conductor cable of suitable size complete.	6.00	Each	1100.00	6600.00
114	Supply and fixing LED lights fitting 1x 22W, 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. ®PHILLIPS/ BAJAJ/ HAWELS/ CROMPTON (or) Suitably Equivalent make.	15.00	Each	1400.00	21000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
115	Supply and fixing LED street light fitting 100 watt 230 V AC outdoor type with high pressure die cast aluminum housing and heat resistant complete with driver, lamp bracket with impact and corrosion resistant including thermal management in multiple optics complete with IP 65/66 protection complete.	6.00	Each	9100.00	54600.00
116	Supply and Install 1.5 Ton Hi-Wall Split units Indoor / Outdoor complete with cordless remote control unit and with in-built air ioniser and Plasma filter for better indoor air quality with minimum 5 Star rating and EER 3.2 of capacity. The rate is inclusive of supply and fixing of copper tube for a length of 5m and with power cable. The Make shall be of (Bluestar / Daikin / Carrier / Voltas) (or) Suitably Equivalent make.	4.00	Each	55000.00	220000.00
Gross Total of Items			Rs. 1,15,77,659.00		



(K. TULASI RAO)

GENERAL MANAGER

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 the contractors, should be noted along with challan / vouchers etc., and a copy of the same are to be 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-B of MES Safety Code, IAFW 2249 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.

(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 against 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)
10% of Work Order value (Contract value exceeding Rs.10 lakhs)

(K. TULASI RAO)

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