

ACCEPTANCE LETTER No: MINUTES OF CWC - II HELD ON 22-08-2024

To

INTEX SPACE SOLUTIONS PRIVATE LIMITED,
No. 9, FIRST FLOOR, 2nd STREET, JAI GARDEN,
VALASARAVAKKAM,
CHENNAI – 600 087

Dear Sirs,

Type of Work: ITEM RATE

Sub : **SPECIAL REPAIRS TO DAMAGED ADMIN BLOCK, SHOP FLOOR AREA AND STEEL DOOR IN MBT ARJUN AT HVF, AVADI**

Ref: (i) Fy Tender No. HVF/TE/13025/CEO/2024-25/07, dated 29-05-2024 with Tender ID: 2024_AVNL_196801_1
(ii) Your Bid: 709312 in this tender and Price revision & Confirmation of Quality offered vide email and letter dated 30-07-2024 & 10-08-2024.

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. 1,91,99,163.50 /-** (Rupees One Crore Ninety One Lakhs Ninety Nine Thousand One Hundred and Sixty Three and Paise Fifty 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/13/2024-25/CAP., dated 06-09-2024** 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. 3,33,800 /- (Rupees Three Lakhs Thirty Three 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. UmaSankar, JWM/IMS/CE(Fy) and Shri. P. Dilli Babu, JWM/IMS/EE(Fy) are nominated as Site In-charges 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
For CHIEF GENERAL MANAGER / HVF
For And On Behalf Of THE PRESIDENT OF INDIA

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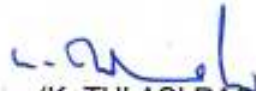
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|--|-----------------------|
| 1. GM / HR, F&A, IMS, HVF, Avadi, Chennai - 600054 | |
| 2. Shri. G. Ananda Kumar, WM / IMS | - Engineer -In Charge |
| 3. Shri. E. UmaSankar, JWM/IMS/CE(Fy) | - Site -In Charge |
| 4. Shri. P. Dilli Babu, JWM/IMS/EE(Fy) | - Site -In Charge |
| 5. Shri. Pranjit Bhagabati, DGM / IMS | - Technical Examiner |

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

Work Order/Deviation Order No	HVF/CE/13/2024-25/CAP., dated 06-09-2024
Acceptance letter No.	MINUTES OF CWC - II HELD ON 22-08-2024
Contractor's Name	INTEX SPACE SOLUTIONS PRIVATE LIMITED
Name of the work	SPECIAL REPAIRS TO DAMAGED ADMIN BLOCK, SHOP FLOOR AREA AND STEEL DOOR IN MBT ARJUN AT HVF, AVADI
CA amount	Rs. 1,91,99,163.50 /-

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. 709312 and Price revision & Confirmation of Quality offered vide email and letter dated 30-07-2024 & 10-08-2024 in HVF Tender; HVF/TE/13025/CEO/2024-25/07, dated 29-05-2024 with Tender ID: 2024_AVNL_196801_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	18/09/2024
b. Date of commencement of work	18/09/2024
c. Date of Completion as per contract	18/09/2025
d. Date for completion shown in previous Orders	NA
e. Revised date of completion	NA
4. Financial effect (Rs.)	
a. Present order	Rs. 1,91,99,163.50 /-
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 (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, Jt.GM / IMS
9. Accepted	INTEX SPACE SOLUTIONS PRIVATE LIMITED


 (K. TULASI RAO)
 JT. GENERAL MANAGER / IMS
 For CHIEF GENERAL MANAGER / HVF
 For And On Behalf Of THE PRESIDENT OF INDIA

Distribution to :-

- 1) INTEX SPACE SOLUTIONS PRIVATE LIMITED
- 2) GM / HR, F&A, IMS, HVF, Avadi, Chennai – 600054
- 3) Sr. Security Officer
- 4) Shri.G. Ananda Kumar, WM / IMS - Engineer -In Charge
- 5) Shri. E. UmaSankar, JWM/IMS/CE(Fy) - Site -In Charge
- 6) Shri. P. Dilli Babu, JWM/IMS/EE(Fy) - Site -In Charge
- 7) Shri. Pranjit Bhagabati, DGM / IMS - Technical Examiner
- 8) HOS/MBT Arjun Shop, 9) HOS/Safety, 10) HOS/Internal Audit cell, 11) HOS/Test Audit, 12) ALWC,
- 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 TO DAMAGED ADMIN BLOCK, SHOP FLOOR AREA AND STEEL DOOR IN MBT ARJUN AT HVF, AVADI
Contract Agreement No:	<u>HVF/CE/13/2024-25/CAP., dated 06-09-2024</u>

SCHEDULE – “A”					
Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
1	Demolition of Reinforced Cement Concrete/cement concrete structure of any description.	135.00	CuM	2012.00	271620.00
2	Surface excavation hard dense soil n.exc (not exceeding) 30 cm deep and averaging 15cm deep and getting out.	50.00	SqM	564.00	28200.00
3	Earth work excavation in hard/ dense soil for foundation width and depth not exceeding 1.50m and getting out.	100.00	CuM	322.00	32200.00
4	Material and labour for sand filling in foundation including watering and consolidation.	15.00	CuM	9662.00	144930.00
5	Supply and laying of P.C.C 1:4:8, D2 type using 40mm graded aggregated incl all bye works etc.,	20.00	CuM	6039.00	120780.00
6	Material and labour for cement concrete 1:2:4 Type B1 20mm graded aggregate in foundation filling and mass concrete.	70.00	CuM	6442.00	450940.00
7	M & L for R.C.C, A1 Type, 1: 1.5: 3 mix, 20mm graded aggregate in foundations, including rafts, footings, column, beam, plinth beams, roof slab etc.,	90.00	CuM	7247.00	652230.00
8	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.	40.00	CuM	4831.00	193240.00
9	Supply and fixing of TMT 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.	5000.00	Kg	81.00	405000.00
10	Supply and fixing of TMT Bars 6mm to 8mm dia, 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.	800.00	Kg	97.00	77600.00
11	M & L for form work to side and soffit of RCC Member such as foundation, plinth beam etc., and the finishing shall be of fair and smooth finished surface.	500.00	SqM	685.00	342500.00
12	Taking down Rolling Shutter/Steel door shutter of any size and handing over to CE Store.	10.00	Each	8052.00	80520.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
13	Supply and Fixing of structural steel of Fe 410-W (Gde-E- 250) Quality - A, for Framed work in doors or gates of angle or other section with gusset plates, rails, braces, stanchions built up of one beam etc., complete drilling for fixing of steel sheeting or other covering doors etc., to be prepared for handing or sliding with and including either hooks and hinges or steel hanging door fittings including steel sheeting and hanging also fastening and locking arrangements etc., and fixing complete all as directed by EIC.	26000.00	Kg	97.00	2522000.00
14	Material and labour for Polycarbonate sheet 2mm thick to suit the existing roof profile as in roof covering/cladding to wall self-drilling/self-tapping anti-corrosive screws with EPDM seal complete all as per manufacturers specification and instructions and as approved and as directed, by considering the dimension & including all necessary scaffolding and safety aspects complete. The height of work exceeding 10 meters from the average ground level.	225.00	SqM	1852.00	416700.00
15	M & L for applying MS polymer (modified selaine) based sealant / adhesive for application at leak joints of valley gutters, bolt holes, down take pipes (6mm depth and 10mm width) and as directed by considering the dimension and height above 10.00 meters height approx. including all safety aspects and scaffolding complete as required at site (Make: McKoy / soudal/ stanvac or equivalent).	500.00	RM	121.00	60500.00
16	Labour for cleaning valley gutters of any description and any size in AC sheet / Galvalume sheet roof (13m to 20m height) for removal of silt, leaves, fungus, debris, tree branches or any other debris lying in valley gutter by using wire brush, steel scrubber, cotton waste. The contractor should collect aforesaid silt, leaves, fungus, debris, tree branches in bags and lower the same to ground using pulley / rope etc., including removal of collected item to 1.5 km from site as per the directions of Engineer In Charge.	875.00	RM	81.00	70875.00
17	Material and Labour for Providing and injecting chemical emulsion for Post Constructional Anti-termite Treatment along external 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.	100.00	SqM	201.00	20100.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
18	Providing and fixing Commercial ply paneling, of 12mm thick ply finished with 4mm thick approved Veneer shade with matching grains and 8mm Aluminum channel section to achieve uniform groove between gypsum and paneling including melamine finish. Make: Euro / Greenlam / Century or Suitably Equivalent Make.	90.00	SqM	5233.00	470970.00
19	Providing and fixing in true horizontal level modular false ceiling using hot dipped galvanised steel sections. Exposed surface chemically cleaned capping prefinished in baked polyester paint. Shilloute / Black Reveal grids and approved wall angle of size 3000 mm x 19 mm x 19 mm used in the periphery of the ceiling fixed to the partition, R.C.C. column and walls using screws at 600mm c/c.	125.00	SqM	1690.00	211250.00
20	Providing and fixing roller blinds with drive unit end plug support brackets roller tube bottom rail ball chains all described as below but with fabric of approved shade colour and sample. Make - Vista/ Marvel or Suitably Equivalent Make.	25.00	SqM	2012.00	50300.00
21	Dismantling of false ceiling boards (fibre, pulp, insulation etc.,) or insulation boards/slabs. blankets of any thickness and removing to CE Stores as directed.	120.00	SqM	201.00	24120.00
22	Supply and fixing of Anodised aluminium snap grid frame work for false ceiling all as specified.	120.00	SqM	725.00	87000.00
23	Material and Labour for exposed metal frame ceiling with calcium silicate board of siliceous and calcareous material reinforced with cellulose fibre for fixing in 600 mm x 600 mm grid (Frame work for ceiling shall be measured and paid separately) 6mm.	120.00	SqM	644.00	77280.00
24	Material and Labour for painting calcium silicate board in ceiling with one coat of primer over two coat of synthetic enamel paint including paint including preparation of new surfaces.	120.00	SqM	160.00	19200.00
25	Demolition of Brick tiles or terracing tiles, single layer on roofs.	1100.00	SqM	201.00	221100.00
26	Demolition lime concrete of any description and in any position not otherwise specifically provided.	60.00	CuM	1488.00	89280.00
27	Material and Labour for providing a cement concrete layer average thickness 40mm using B0 type concrete and finishing the surface.	900.00	SqM	362.00	325800.00
28	Protection of Membrane Providing and laying Protective layer of 210 GSM Geotextile before laying the protection screed.	500.00	SqM	564.00	282000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
29	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 / Seal Arm PU of MYK Arment / SNF one plus P590 of Bostik / Master seal NP 473 U of Master Builders Solutions / Cipoxy 16 D of Dr. Fixit makes are only acceptable as approved by EIC and finishing the top surface.	600.00	RM	322.00	193200.00
30	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 1.5mm 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 Builder Solution", "MYK Arment", "Dr. Fixit", "Alchimica", "Bostik" and "Tecnopol" or Suitably Equivalent Make as approved by EIC).	1100.00	SqM	242.00	266200.00
31	S & F of Anodised aluminium frame for Partition, doors, windows, ventilators with one or more rebates including joining cleat for fixing etc., complete all as specified.	800.00	Kg	403.00	322400.00
32	S & F of Anodised aluminium door shutters, aluminium section weighing 0.55 kg/m including necessary joining cleats, glazing clips, rubber neoprene packing, handles 2 Nos in each door, hinges, anodised aluminum snap beading screws etc., complete all as specified.	35.00	SqM	3623.00	126805.00
33	Supply and fixing of pre-laminated particle board of 12mm thick with both sides with decorative choice lamination.	180.00	SqM	1208.00	217440.00
34	S & F of 5.5mm thick sheet glass ordinary quality and glazing with oil putty in square not exceeding 0.50 Sq.m in each pane.	160.00	SqM	1598.00	255680.00
35	S & F of Anodised aluminium window and ventilator shutters, 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, etc., complete all as specified.	80.00	SqM	2818.00	225440.00
36	Material and Labour for solar control film 25 micron reflective type stucked to glass panes as per instructions of manufacturers.	80.00	SqM	778.00	62240.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
37	S & F of Aluminium Door closer hydraulically regulated, designation No. 3, universal type, suitable for door shutters of 851 to 1000 mm in width and of weight between 61 to 80 kg and fixed.	10.00	Each	3623.00	36230.00
38	Taking down door and window frame with shutter exceeding 1.50 SQM and not exceeding 4.0 SqM and removing to CE Stores.	35.00	Each	1208.00	42280.00
39	S/F of plain solid straight chowkats and frames, wrought framed rebated on the solid rounded or chamfered put together, with glue pinned at joints of 2nd class hard wood.	1.10	CuM	80515.00	88566.50
40	Supply and fixing of 40 mm thick Flush door shutter solid core construction with block board core and plywood face panels, commercial type of both sides.	70.00	SqM	2415.00	169050.00
41	S & F for 125mm Butt hinges, extruded brass, with mild steel hinge pin, bright polished and fixed, type B-11.	30.00	Each	403.00	12090.00
42	S & F of 375mm Brass, sliding door bolt with sand or die-cast brass hasp, staple (bolt type) and fixing bolt with rolled or drawn brass bolts and fixed.	10.00	Each	3623.00	36230.00
43	S & F of 200mm Brass barrel tower bolts, with cast or sheet barrel and rolled or cast bolts and fixed.	20.00	Each	282.00	5640.00
44	S & F of 150mm Extruded brass handles, fabricated type polished.	20.00	Each	282.00	5640.00
45	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.	20.00	SqM	6039.00	120780.00
46	Supply and fixing of granite 12 mm thick of approved colour used for urinal partition including fixing with stainless steel clamps over the tiles as required at site	10.00	SqM	3600.00	36000.00
47	Rounding to edges of stone slabs one edge, such as in steps, cooking platform and other similar situations	55.00	RM	81.00	4455.00
48	Supply & fixing of 150mm Aluminum anodized barrel tower bolts of extruded section and fixed.	60.00	Each	121.00	7260.00
49	S & F of 125mm butt hinges, extruded Aluminum alloy type B-21 with galvanised mild steel hinge pin.	80.00	Each	161.00	12880.00
50	S & F of 150 mm Aluminum Handles cast rod type, anodized	60.00	Each	125.00	7500.00
51	Supply and fixing of 250mm mild steel sliding door bolts, plate type, stove enameled black, with bright bolt not less than 12mm dia with and including a minimum of 6 bolts and nuts, four on bolt plate and two on staple plate and fixed.	25.00	Each	4025.00	100625.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
52	Taking down cement plaster on brick or stone walls/tiles etc., including raking out joints, hacking for key, scrubbing down with water, etc.,	700.00	SqM	201.00	140700.00
53	M & L for Dubbing in CM 1:4, 10mm thick on faces of old brick work and concrete surfaces.	700.00	SqM	322.00	225400.00
54	Material and Labour for plastering with CM 1:4, 15mm thick on fair faces of brick work/ concrete surfaces work.	820.00	SqM	387.00	317340.00
55	M & L for plastering in CM 1:3, on fair faces of ceiling to 12mm thick.	50.00	SqM	443.00	22150.00
56	M & L for Brick work built in CM.1:6 using Sub-Class "B" Bricks.	18.00	CuM	9260.00	166680.00
57	M & L for dismantling floor, hearth or wall tiling including cement mortar bedding (but not backing), removing serviceable tiles to store and rubbish off the premises.	600.00	SqM	154.00	92400.00
58	Supply and Fixing of Vitrified Ceramic tiles (Dark Shade) 10 mm thick (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 and screed bed or bedding layer in CM1:3, 20mm thick for laying floor finishes.	388.00	SqM	1369.00	531172.00
59	Supply and Fixing of Vitrified Ceramic tiles (Dark Shade) 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.	550.00	SqM	1369.00	752950.00
60	Hacking out plaster 15cm vide on either side of the crack cutting of 6mm 'V' groove by inserting chicken mesh in the gaps of wall and applying pressure grouting the cracks with a mixture of CERA POLY CRACK FILLER, crack fill of Bostik or equivalent in STP, BASF, CIPY and finishing to the original shape.	150.00	RM	885.00	132750.00
61	Supply and fixing of EWC with "P" or "S" trap including bedding valveless syphonic action type flushing cistern low level white with inlet ball valve float and handle including bracket etc., complete and dismantling the existing EWC.	4.00	Each	6039.00	24156.00
62	Supply and fixing of vitreous China squatting pan of pattern "long pan", size 580 mm white with 'P' or 'S' trap, front or back inlet and foot rests, any pattern including provision of lime concrete bedding PVC valveless 10 litre, syphonic action type, flushing cistern, low level, white, with inlet, ball valve, float and handle including brackets Flush pipe of polyethylene of low or high density or PVC. 32 mm dia, for low level cistern.	8.00	Each	5900.00	47200.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
63	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.	20.00	Each	3623.00	72460.00
64	Supply and Fixing of Vitreous China urinals, bowl type flat back of size 465X355X265mm 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 15mm and waste pipe and removing old damaged urinal etc., complete.	15.00	Each	4831.00	72465.00
65	Material and Labour Providing and fixing in position Inbuilt automatic sensing Urinals having Integrated EFS - Smart -DC and the make shall be approved by EIC.	6.00	Each	12077.00	72462.00
66	Supply and fixing of counter sunk wash basin, waste coupling, bottle trap, angle valve, teflon tape etc., and the make shall be approved by EIC.	6.00	Each	4830.00	28980.00
67	Supply and fixing of wall mounted coupled closet including soft seat cover, concealed flush tank etc., and the make shall be approved by EIC.	6.00	Each	14492.00	86952.00
68	Material and Labour Providing and fixing in position Toilet Piller cock and the make shall be approved by EIC.	6.00	Each	3623.00	21738.00
69	Material and Labour Providing and fixing in position Toilet Health Facet with chromed flexible hose & Wall Bracket and the make shall be approved by EIC.	6.00	Each	745.00	4470.00
70	Material and Labour Providing and fixing in position Toilet Bottle Trap of 32mm Size with 330mm & 110mm long connection pipes and the make shall be approved by EIC.	6.00	Each	2013.00	12078.00
71	Material and Labour Providing and fixing in position Toilet Nahni Trap.	6.00	Each	1610.00	9660.00
72	Material and Labour Providing and fixing in position Toilet Paper Holder with Flap and the make shall be approved by EIC.	6.00	Each	723.00	4338.00
73	Supply and fixing of roob hook brass coated with chromium plated / gold plated.	6.00	Each	723.00	4338.00
74	Providing and fixing in position liquid soap dispenser of approved shade and the make shall be approved by EIC. Cost to be inclusive of Liquid soap pouch.	4.00	Each	2013.00	8052.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
75	Supply and fixing of frosted Glass Sheet glass (5.50mm thick), ordinary quality and glazing with oil putty in square exc 0.5 sq. m in each pane ground or obscured or frosted, on one side.	3.00	SqM	2013.00	6039.00
76	Providing and fixing factory made uPVC white colour casement (openable) window made of extruded profiles with wall thickness of 2.3 mm (± 0.2 mm) window profile with hollow section with multi chamber. Frame(60mm x 58 mm)-sash (60mm x73mm T profile one vertical length in between two shutters), (60 mm x 74 mm) Glazing bead(35mm x 20 mm) will be mitered cut and fusion welded at all corners including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing hardware EPDM gasket 1.2 ± 0.2 mm thick galvanised steel frame(28mm x 21.5mm) sash (31mm x 27.5 mm), T profile (27 mmx 17 mm) to be inserted in required profile. Frame will be fixed to the wall with 8 mm x 100 mm long fasteners. Hardware casement handle made of zinc alloyed (white powder coated). butt hinges of zinc alloyed (white powder coated) transmission gear made of mild steel with multi point locking system and 5mm thick glazing with selected quality glass. (Note The unit rate quoted by contractor excludes cost of glass and includes all other connected accessories. Net opening will be measured for payment purpose. (a) area n exc 1.00 Sqm each).	4.00	SqM	8857.00	35428.00
77	Supply and fixing of bevelled mirror of area exceeding 0.27 Sqm to not exceeding 0.72 Sqm of selected quality glass mounted on commercial ply wood and fixed to wooden frame work or metal frame work with chromium plated brass screws and cup washers.	6.00	Each	6039.00	36234.00
78	Supply and fixing of 600mmx450mm bevelled 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.	16.00	Each	4026.00	64416.00
79	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.	22.00	Each	1450.00	31900.00
80	Supply and fixing of 750 capacity in Litres of plastic water tank, approved quality with all fitting and fixed complete to roof.	20.00	Each	6442.00	128840.00
81	Supply and fixing of soap dish fixed to plugs with chromium plated brass screws.	22.00	Each	400.00	8800.00
82	Taking down 20mm steel tubing and connection including cleaning for refixing or removal to stores.	250.00	RM	62.00	15500.00
83	Taking down 25mm or 32mm steel tubing and connection including cleaning for refixing or removal to stores.	170.00	RM	68.00	11560.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
84	Taking down 40mm or 50mm steel tubing and connection including cleaning for refixing or removal to stores.	150.00	RM	81.00	12150.00
85	Demolition and breaking drain (Salt glazed ware AC or reinforced concrete) 100mm dia set in cement mortar.	350.00	RM	200.00	70000.00
86	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	200.00	40000.00
87	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.	150.00	RM	200.00	30000.00
88	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.	170.00	RM	145.00	24650.00
89	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.	250.00	RM	120.00	30000.00
90	Supply and laying of CPVC pipes 16 mm outer diameter SDR 11 & Plain CPVC SDR 11 fittings on walls/ceiling or laying in floors complete all as specified.	100.00	RM	96.00	9600.00
91	Supply and fixing of chromium plated cast copper alloy bib cock of size 15mm.	90.00	Each	966.00	86940.00
92	Supply and fixing of cast copper alloy screwed down, high pressure stop cock /angle cock fancy type chromium plated concealed type of size 15mm.	70.00	Each	966.00	67620.00
93	M & L of PVC gully trap 125/110mm setting and jointing with chromium plated grating plate.	20.00	Each	420.00	8400.00
94	M & L of PVC (SWR) floor trap plain of size 75mm with grating including jointing with solvent cement.	22.00	Each	385.00	8470.00
95	Supply and fixing of Aluminium Coat Hooks of solid body of size 175mm to 250mm.	22.00	Each	116.00	2552.00
96	S & F of 110mm PVC (SWR) Pipes single socketed, in any length with rubber ring joints, laid in trenches or in floor.	250.00	RM	322.00	80500.00
97	Supply and fixing of 110mm SWR PVC pipe single socketed in any length with rubber ring joints fixed in walls.	150.00	RM	322.00	48300.00
98	Fixing of 75mm SWR PVC pipe single socketed in any length with rubber ring joints fixed in walls.	50.00	RM	150.00	7500.00
99	Fixing of 75mm SWR PVC pipe single socketed in any length with rubber ring joints fixed in floor.	110.00	RM	280.00	30800.00
100	S & F of PVC Bend with door 110mm dia any radius.	40.00	Each	300.00	12000.00
101	S & F of PVC Bend with door 75mm dia any radius.	15.00	Each	250.00	3750.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
102	S & F of PVC Tee with door 110mm dia any radius.	15.00	Each	483.00	7245.00
103	S & F of PVC Tee with door 75mm dia any radius.	12.00	Each	362.00	4344.00
104	S & F of PVC Y with door 110mm dia any radius.	4.00	Each	483.00	1932.00
105	Supply and fixing of 110mm PVC (SWR) vent cowl.	15.00	Each	196.00	2940.00
106	Complete removal of existing treatment on external wall surfaces.	14400.00	SqM	72.00	1036800.00
107	Material and Labour for applying two coats of internal emulsion on internal wall surfaces all complete.	6102.70	SqM	120.00	732324.00
108	Material and Labour for applying two coat of exterior plastic emulsion on external wall surfaces (two storey building) all complete (MAKE:- ASIAN Paint (Apex Ultima), NEROLAC (Excel Total), BERGER (Weather Coat Long Life 7) or Suitably Equivalent Make as approved by EIC.	7700.00	SqM	120.00	924000.00
109	Material and Labour for white washing on ceiling with two coats including preparation of new ceiling surfaces.	600.00	SqM	120.00	72000.00
110	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.	1500.00	SqM	160.00	240000.00
111	Material and Labour for painting two coats of synthetic enamel paint on old steel surfaces including preparation of untreated surfaces.	100.00	SqM	160.00	16000.00
112	Material and Labour for painting two coats of synthetic enamel paint on old wood surfaces including preparation of old surfaces.	3570.00	SqM	160.00	571200.00
113	S & F of PVC (SWR) pipe of 160 mm dia to walls / roof or in trenches including all fittings like clamps, bend, Tee etc.as directed and as approved complete as required at site.	100.00	RM	480.00	48000.00
114	Dismantling expanded metal, any thickness or mesh, fixed with steel or wood fillets, if any	50.00	SqM	400.00	20000.00
115	S & F of galvanised mild steel wire cloth, 0.56mm nominal dia of wire and average width of aperture 1.18mm and fixed with tinned tacks, or galvanised wire staples.	50.00	SqM	480.00	24000.00
116	M & L for precast slabs for drains in cement mortor 1:4 using Type B1 1:2:4: (20mm graded aggregate)	2.00	CuM	12077.00	24154.00
117	Removal of excavated rocks exceeding 250m but not exceeding 500m and depositing where directed.	135.00	CuM	885.00	119475.00
118	Returning / refilling of soil / loose including spreading, leveling, watering and well ramming in layers not exceeding 25cm.	50.00	CuM	725.00	36250.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
119	Material and Labour for Point wiring with 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 or roof including MS 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. a)one light point or one fan point controlled by one switch with cables 1.5 sq mm size.	147.00	Point	600.00	88200.00
120	Material and Labour for Point wiring with 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 or roof including MS 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. b) One 3 pin socket outlet 5 amps on the same board with other switches, with cables 1.5 sq mm size.	47.00	Point	485.00	22795.00
121	Supply & fixing of wiring with two runs of 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 run of copper cable as earth wire. (Make: Finolux / Havells / Polycab or Suitably Equivalent make). a) 2x2.5 sq.mm+1x2.5 sq.mm earth wire.	500.00	RM	160.00	80000.00
122	Supply & fixing of wiring with two runs of 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 run of copper cable as earth wire. (Make: Finolux / Havells / Polycab or Suitably Equivalent make). b) 2x4 sq.mm+1x 4.0 sq mm earth wire	500.00	RM	322.00	161000.00
123	Supply & fixing of wiring with two runs of 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 run of copper cable as earth wire. (Make: Finolux / Havells / Polycab or Suitably Equivalent make). c)2x6 sq.mm+1x 6.0 sq.mm earth wire	200.00	RM	440.00	88000.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
124	Material & Labour for brick wall cutting chases, pinning in, making good to facings where required and pointing in cement mortar 1:3 to ends and cutting chases for concealed conduit wiring, etc., and making good, cutting exceeding 20cm girth.	120.00	RM	90.00	10800.00
125	Material & Labour for fixing of switch piano, flush type single pole one way 6 amps.	78.00	Each	73.00	5694.00
126	Material & Labour for fixing of switch socket combination 2 in 1, 6 A flush type universal.	15.00	Each	242.00	3630.00
127	Material & Labour for switch socket combination 3 pin 6A/16A, 5 in 1 flush type universal.	16.00	Each	362.00	5792.00
128	Supply & fixing of stepped type electronic fan regulator flush type on the existing phenolic laminated sheet etc., as required.	8.00	Each	362.00	2896.00
129	Material & Labour for ceiling rose, 3 Phase / PVC / Polycarbonate, isolated body.	51.00	Each	100.00	5100.00
130	Material & Labour for fixing PVC rectangular block for mounting, switches, sockets, fan regulator etc., with 3 mm thick plastic laminated sheet cover of size 350 x 300 x 50mm deep.	8.00	Each	295.00	2360.00
131	Material & Labour for fixing PVC rectangular block for mounting, switches, sockets, fan regulator etc., with 3 mm thick plastic laminated sheet cover of size 200 x 150 x 50mm deep.	16.00	Each	220.00	3520.00
132	Supply & fixing 240 Volt, 10KA 'C' curve MCB of single pole 6 to 32 Amps in the MCB DB complete with connection testing and commissioning. Make: Standard / Legrand / Havells or Suitably Equivalent make.	54.00	Each	200.00	10800.00
133	Supply & fixing 240 Volt, 10KA 'C' curve MCB of SPN 32Amps in the MCB DB complete with connection testing and commissioning. Make: Standard / Legrand / Havells or Suitably Equivalent make.	10.00	Each	4860.00	48600.00
134	Supply & fixing 415 Volt, 10KA 'C' curve MCB of TPN 40 To 100 Amps in the MCB DB complete with connection testing and commissioning. Make: Standard / Legrand / Havells or Suitably Equivalent make.	2.00	Each	4000.00	8000.00
135	Supply, fixing & connecting the single pole and neutral enclosure with two pin & earth plug & socket complete with one single pole 20 amps MCB (Make: Legrand/ Anchor/ Havells or Suitably Equivalent make.	20.00	Each	2012.00	40240.00
136	Material & Labour for connecting to the system modular type switches 6A single pole one way. Make: LEGRAND / ANCHOR / HAVELLS or Suitably Equivalent make.	116.00	Each	80.00	9280.00
137	Supply, fixing and connecting to the system of socket, 6A-2/3 pin combined modular type 2 module. Make: LEGRAND/ ANCHOR/ HAVELLS or Suitably Equivalent make.	32.00	Each	242.00	7744.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
138	Material & Labour for fixing and connecting to the system of switch socket combination, 16A-6 pin 3 module. Make: LEGRAND /ANCHOR/ HAVELLS or Suitably Equivalent make.	16.00	Each	362.00	5792.00
139	Supply, fixing & connecting of Fan step regulator modular type 120W, 2 module. Make: Anchor /Havells/ Legrand or Suitably Equivalent make.	20.00	Each	362.00	7240.00
140	Supply & fixing of 3 module, polycarbonate modular white cover plate with frame. Make: Anchor/ Havells/ Legrand or Suitably Equivalent make.	16.00	Each	65.00	1040.00
141	Supply & fixing of metal flush box for 3 module plate.	16.00	Each	96.00	1536.00
142	Supply & fixing of 6 module, polycarbonate modular white cover plate with frame. Make: Anchor/ Havells/ Legrand or Suitably Equivalent make.	25.00	Each	145.00	3625.00
143	Supply & fixing of metal flush box for 6 module plate.	25.00	Each	200.00	5000.00
144	Supply & fixing of 8 module, polycarbonate modular white cover plate with frame. Make: Anchor/ Havells/ Legrand or Suitably Equivalent make.	17.00	Each	280.00	4760.00
145	Supply & fixing LED light fitting 1X10W bulkhead luminaires including LED light driver holder connecting up with three core flexible copper conductor cable of suitable size. Make: Philips/ Wipro/ Havells / C&S/ Panasonic or Suitably Equivalent make. Warranty: 2 yrs.	22.00	Each	1200.00	26400.00
146	Supply and fixing of LED luminaire 600mmx600mm, 40watts, 220v AC recessed type with high efficiency PMMA diffuser soft glare cool day 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/ Wipro/ Panasonic or Suitably Equivalent make. Warranty: 2 yrs.	54.00	Each	2820.00	152280.00
147	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/ Havells/ Wipro/ Panasonic or Suitably Equivalent make. Warranty: 2 Yrs.	14.00	Each	1450.00	20300.00
148	Supply and fixing round shape 12 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. Warranty: 2 Yrs.	14.00	Each	1200.00	16800.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Total Cost
149	Taking down carefully copper/aluminium point wiring (light, fan, socket or power) complete, including fixture and fittings such as switches, ceiling roses, pendants, regulators, sockets, light fitting etc. removing materials to store for keeping in safe custody for taking credit and making good disturbed surfaces of wall, floors, etc.	243.00	Point	160.00	38880.00
150	Supply & fixing of galvanised steel tubes, medium grade 20mm dia for ceiling fan down rod.	70.00	RM	96.00	6720.00
151	Supply and fixing of ceiling fans, complete with three blade, down rod, accessories 230V, 1200mm sweep, with Squirrel cage induction motor and BEE Star Rating: 5 Star & ISI Marking. Make: Orient/ USHA/ Havells or Suitably Equivalent make. Warranty: 2 Yrs.	20.00	Each	2800.00	56000.00
152	Taking down fan, sealing cable end, dismantling blades and removing fan and blades to store.	43.00	Each	200.00	8600.00
153	Supply and fixing of exhaust fan, steel body AC single phase 230 v of size 300mm sweep with blades and frame and louvers. Make: Almonard/ Khaitan/ Havells or Suitably Equivalent make. Warranty: 2 Yrs.	15.00	Each	5233.00	78495.00
154	Material & Labour for Painting of ceiling fans complete with synthetic enamel paint by spraying including filling cavities with filler, one coat after cleaning all dust etc.,	8.00	Each	440.00	3520.00
155	Hanging only ceiling fan (M.D. supply) and connecting up including provision of cable from ceiling rose or connector to fan.	8.00	Each	290.00	2320.00
156	Supply & fixing of metal flush box for 8 module plate.	17.00	Each	322.00	5474.00
157	Supply & fixing of 12 module, polycarbonate modular white cover plate with frame and metal flush box. Make: Anchor/ Havells/ Legrand or Suitably Equivalent make.	2.00	Each	430.00	860.00
158	Supply & fixing of modular type Dummy plate	90.00	Number	30.00	2700.00
159	Supply and fixing of 10 Nos. of 1.5 Ton Inverter Type Hi-Wall Split Air Conditioner unit with 5 Star Rating, Copper Coil and with all accessories including Copper Pipe.	10.00	Set	40000.00	400000.00
Gross Total of Items			Rs. 1,91,99,163.50 /-		


(K. TULASI RAO)

JT. GENERAL MANAGER / IMS
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)

JT. GENERAL MANAGER / IMS

For CHIEF GENERAL MANAGER / HVF

For And On Behalf Of THE PRESIDENT OF INDIA