

ACCEPTANCE LETTER NO: Minutes of CWC – I held on 07-10-2023

To
M/s. S.Vinayagamurthy
No. 1201, TNHB, Kakalur Scheme,
Thiruvallur – 602001.
Dear Sirs,

Type of work: Item Rate

Sub: REPAIRS TO THE ROOF OF MARKET AREA BUILDING, CIVIL ENGINEERING
GODOWN AND ELECTRICAL BUILDING AT HVF ESTATE

Ref i) Fy Tender No. HVF/TE/13025/CEO/2023-24/28., Dt.13.07.2023.
ii) Your Quotation ID 586415

1. For and on behalf of the President of India, I hereby the acceptance of your tender by the competent financial authority for the above mentioned work for a total value of Rs. 65,88,746.00 (Rupees Sixty Five Lakhs Eighty Eight Thousand Seven Hundred and Forty Six Only) and other 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/09/2023-24/Cap., Dt.26-10-2023 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.1,55,000.00 (Rupees One Lakh Fifty Five 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. G. Ananda Kumar, WM/IMS is nominated as Engineering-In-Charge and Shri. S.Arunachalam, CM / 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. G.Ananda Kumar, WM / IMS, Engineer-In-Charge
3. Shri. S.Arunachalam, CM / CE(Est), Site-In-Charge
4. Shri. Prempal Singh, AWM / MM(GA) & CEO, Technical Examiner

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

Work Order/Deviation Order No.	HVF/CE/09/2023-24/Cap., Dt.26-10-2023
Acceptance letter No.	Minutes of CWC-I held on 07-10-2023
Contractor's Name	S.Vinayagamurthy
Name of the work	REPAIRS TO THE ROOF OF MARKET AREA BUILDING, CIVIL ENGINEERING GODOWN AND ELECTRICAL BUILDING AT HVF ESTATE
CA amount	Rs.65,88,746.00

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 quotation in HVF/TE/13025/CEO/2023-24/28., Dt.13.07.2023 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	30/10/2023
b	Date of commencement of work	30/10/2023
c	Date of completion as per contract	29/10/2024
d	Date of completion shown in previous Orders	NA
e	Revised date of completion	NA
4.	Financial effect (Rs.)	
a	Present order	Rs.65,88,746.00
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.	4076/111/920/34
6.	Certified that no special rate is involved	
7.	Technical Examiner	Shri. Prempal Singh, AWM / MM(GA) & CEO
8.	Approved	Shri. Tulasi Rao, JT.GM / IMS, EO & GS
9.	Accepted	S.VINAYAGAMURTHY


(K. TULASI RAO)

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For CHIEF GENERAL MANAGER / HVF
For And On Behalf Of THE PRESIDENT OF INDIA

Distribution to :-

1. S.Vinayagamurthy
2. GM/HR & F&A, HVF Avadi
3. Sr. Security Officer
4. Shri. G.Ananda kumar, WM / IMS., Engineer-In-Charge
5. Shri. S. Arunachalam, CM / CE(Est), Site-In-Charge
6. Shri. Prempal Singh, AWM / MM(GA) & CEO, Technical Examiner
7. HOS/Safety, 9.HOS/ Internal Audit cell, 10. HOS/Test Audit, 11. ALWC.
12. The Chief Commissioner of Central Excise, 26/1. Mahatma Gandhi Road, Nungambakkam, Chennai - 600 034.
13. 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	Grubbing up tree of girth exceeding 100 cm and not exceeding 150 cm including cutting of trunk portion protruding over ground, digging out roots, filling holes and levelling off ground, stacking of serviceable material and removing of unserviceable material to a distance not exceeding 50m and clearing site as directed by EIC.	5.00	Each	2800.00	14000.00
2	Dismantling floor,hearth or wall tiling including cement mortar bedding (but not backing),removing serviceable tiles to store and rubbish off the premises	1000.00	m2	60.00	60000.00
3	Demolition of Cement concrete (unreinforced) in ground floors and pavings n exc 15cm thickness (below or above ground level) as directed by EIC.	65.00	m3	1200.00	78000.00
4	Dismantling structural steel work including doors , gates but excluding framed truss etc., & as directed by EIC.	3.00	Quintal	550.00	1650.00
5	Taking down window Shutters with frame of any description not exc 1.0 sq. m each and handing over the same to CE(E)/Store.	30.00	Each	120.00	3600.00
6	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.	25.00	Each	370.00	9250.00
7	Taking down plastering cement lime or cement mortar	300.00	m2	20.00	6000.00
8	M&L for dubbing in CM1:6, 10mm thick on faces of old brick work /concrete surfaces.	300.00	m2	145.00	43500.00
9	M & L for providing plastering in CM 1:4, 15mm thick on brick / concrete surface.	300.00	m2	280.00	84000.00
10	Excavating hard/dense soil in post holes (or similar holes) each n exc 0.5 cu.m getting out, returning, filling in and ramming earth or broken rubble mixed with earth around, in layers not exceeding 25cm as directed by EIC.	16.00	Each	310.00	4960.00
11	Material and labour for sand filling in foundation including watering and consolidation as directed by EIC.	60.00	m3	1872.00	112320.00
12	M&L for Cement concrete in foundations, filling and mass concrete PCC 1:4:8 D2 type using 40mm graded aggregated in flooring as directed by EIC.	65.00	m3	5325.00	346125.00
13	Material and labour fo PCC 1:2:4, B2 type using 20mm graded aggregated in foundation and flooring as directed by EIC.	65.00	m3	6307.00	409955.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Amount
14	Dismantling of single layer Mangalore pattern or similar type of tile in roofing as directed by EIC.	800.00	m2	40.00	32000.00
15	Dismantling of timber scantling 40sq.cm and over in section on any position in framed work as directed by EIC.	25.00	m3	1050.00	26250.00
16	Dismantling of AC sheet (corrugated, semicorrugated, etc.) in roofing covering as directed by EIC.	100.00	m2	37.00	3700.00
17	Supply and fixing of pre-painted galvaume aluminum zinc coating GI based plain steel sheet 0.50mm thick of a colour having tensile strength of 550 Mpa as in roof covering /cladding to wall fixed with self tapping screws as specified as directed by EIC.	65.00	m2	709.00	46085.00
18	Supply and fixing of pre-painted galvaume aluminum zinc coating GI based corrugated steel sheet 0.50mm thick of a colour having tensile strength of 550 Mpa as in roof covering /cladding to wall fixed with self tapping screws as directed by EIC.	1000.00	m2	751.00	751000.00
19	Supply and fixing of framed work using Fe410 W(Gde-E- 250) A quality mild rolled steel tube, angles, plates etc. Including cutting, welding etc complete as directed by EIC.	12500.00	KG	112.00	1400000.00
20	Material and labour for painting steel work with two coat of synethic enamel paint over one coat of red oxide including preparation of new steel surfaces as directed by EIC.	600.00	m2	132.00	79200.00
21	M & L Forming jambs Cement mortar 1:4,Making good under cills or over arches, lintels and bressummers including all pinning when necessary	100.00	m2	670.00	67000.00
22	Supply and fixing of holdfast made out of 25 X 6 mm flat fixed to Door frame.	25.00	KG	160.00	4000.00
23	M& L for brick work built in CM 1:6 using Sub-class"B" Bricks as per SSR & as directed by EIC.	5.00	m3	5150.00	25750.00
24	Labour charges including removal of existing damaged perforated board from aluminium grid work and realigning repositioning , levelling and replacement of supporting hanger, bolts, nuts etc if any required	140.00	m2	360.00	50400.00
25	Material and labour for Anodised aluminium snap grid frame work for false ceiling all as specified Size of grid 605 x 605mm	492.00	m2	475.00	233700.00
26	Supply and fixing of perforated particle board/ tiles for insulation and accoustic purposes . 60*60 cm in 12mm thick in size , fixed on snap grid as directed by EIC.	492.00	m2	510.00	250920.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Amount
27	Material and labour for applying two coat of interior emulsion on internal ceiling surfaces with one coat of primer including preparation of new surface	492.00	m2	143.00	70356.00
28	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 as directed by EIC	1.00	m3	83000.00	83000.00
29	S&F of glazed and skeleton door/window/ ventilator shutters made out of II class hard wood of 30 mm thickness open rebated and prepared to receive glass, wire mesh etc., (with sash bars) edges of framing plain, chamfered or rounded fitted with cut and mitered beads for securing glass, wire mesh etc., Size of members of shutters all complete.	35.00	m2	2100.00	73500.00
30	Supply and fixing sheet glass ordinary quality of 4.00mm thick and glazing with oil putty in square n exc 0.5 Sq.m in each pane.	20.00	m2	720.00	14400.00
31	Supply and fixing of Hook and eye of mild steel wire type I for 150mm size.	50.00	Each	31.50	1575.00
32	S/F of IInd class plain 40 mm thick , panelled shutter (any number of panels) with panels of timber flat on both sides and fitted to chowkats as per SSR & as directed by EIC	45.00	m2	2323.00	104535.00
33	Supply and Fixing of extruded Aluminium alloy with brass/bronze hinge pin type C-22 Butt hinges heavy weight 75mm length.	60.00	Each	102.00	6120.00
34	Supply and Fixing of Aluminium anodized skeleton tower bolts with plate of 100mm length.	60.00	Each	61.00	3660.00
35	Supply and Fixing of Aluminium handle fabricated type 100mm length.	60.00	Each	70.00	4200.00
36	S/F of butt hinges medium weight cold rolled mild steel and fixed to chowkats size of hinges shall be 125mm as directed by EIC	75.00	Each	91.00	6825.00
37	S/F of 200mm aluminum anodized barrel tower bolts of extruded section and fixed as per SSR & as directed by EIC.	50.00	Each	85.00	4250.00
38	S/F of 150mm extruded aluminium alloy handles fabricated type anodized as per SSR & as directed by EIC.	50.00	Each	85.00	4250.00
39	M & L for painting to wooden surfaces of any description over 10cm width or girth with two coats of synthetic enamel paint over a coat of pink primer including preparing new wooden surfaces as per SSR & as directed by EIC .	80.00	m2	122.00	9760.00
40	Cutting holes in brick walls built in cement mortar Exc. half brick work but not exc. one brick for inserting hold fasts and making good dismantled portion in cement mortar 1:3 or cement concrete 1:2:4 type B1 as required.	50.00	Each	138.00	6900.00

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

Item Code	Item Description	Quantity	Unit	Rate/Unit	Amount
41	Material and labour for colour washing two coat including preparation of Old de corateed surface as directed by EIC.	500.00	m2	20.00	10000.00
42	M & L for OBD two coats on old plastered walls including preparing the old plastered surfaces as directed by EIC.	820.00	m2	72.00	59040.00
43	Material and Labour for glazed ceramic colour tiles in vertical surfaces 350x 250x 7 mm/ 450X 350X 7mm 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.	150.00	m2	1200.00	180000.00
44	M& L for Virifield ceramic tiles 10mm thick (sq/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 bed in CM 1:4 15mm thick complete as directed by EIC.(Light shade).	850.00	m2	1349.00	1146650.00
45	Material and labour for Point wiring with 1.5sqmm 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 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.a)one light point or one fan point controlled by one switch with cables 1.5 sqmm size.	236.00	Point	948.00	223728.00
46	Material and labour for Point wiring with 1.5sqmm 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 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.b)One 3 pin socket outlet 5 amps on the same board with other switches, with cables 1.5 sqmm size.	100.00	Point	235.00	23500.00
47	Material and labour for Point wiring with 1.5sqmm 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 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.c)One 3 pin socket outlet 5 amps independent, with cables 2.5 sqmm size.	40.00	Point	1160.00	46400.00

Item Code	Item Description	Quantity	Unit	Rate/Unit	Amount
48	Supply & fixing of switch piano, flush type single pole one way 6 amps. (ANCHOR / LEGRAND/ HAVELLS make).	305.00	Each	55.00	16775.00
49	Supply & fixing of switch piano, flush type single pole one way 16 amps. (ANCHOR / LEGRAND/ HAVELLS make).	47.00	Each	70.00	3290.00
50	Supply & fixing of Socket outlet 2 in 1, 3 pin, 6 amp flush type (ANCHOR / LEGRAND/ HAVELLS make).	90.00	Each	72.00	6480.00
51	Supply & fixing of Socket outlet 2 in 1, 3 pin, 6 and 16 amp flush type (ANCHOR / LEGRAND/ HAVELLS make).	47.00	Each	88.00	4136.00
52	Supply & Fixing of wiring for circuit/sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed as required. 2x2.5sqmm + 1x2.5sqmm earth wire	540.00	m	193.00	104220.00
53	Supply & Fixing of wiring for circuit/sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed as required. 2x4.0sqmm + 1x4.0sqmm earth wire	320.00	m	210.00	67200.00
54	Supply & Fixing of wiring for circuit/sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed as required. 2x6.0sqmm + 1x6.0sqmm earth wire	300.00	m	255.00	76500.00
55	Material & Labour for ceiling rose, 3 Phase/PVC/polycarbonate, isolated body (ANCHOR / LEGRAND/ HAVELLS make).	183.00	Each	42.00	7686.00
56	supply & fixing of lamp holders PVC/polycarbonate type with cord grid cap suitable for pendant/straight/slanding fittings.	50.00	Each	135.00	6750.00
57	Supply & Fixing of stepped type electronic fan regulator flush type on the existing phenolic laminated sheet etc. (ANCHOR / LEGRAND/ HAVELLS make).	65.00	Each	320.00	20800.00
58	Supply & fixing sheet metal enclosures for DB's when MCBs to be use, 8 way with 200 amps rated bus bar, single door. Make:STANDARD / LEGRAND / HAVELLS.	6.00	Each	1620.00	9720.00
59	Supply and fixing amp rating 240V, 10KA 'C' curve miniature circuit breaker (MCB) of following poles and current carrying capacity in the MCB DB complete with connection testing and commissioning. SPN 32 AMP (Make: Legrand/ABB/ Schneider)	6.00	Each	850.00	5100.00
60	Supply and fixing 240V, 10 KA 'B' curve miniature circuit breaker (MCB) of single poles and current carrying capacity 6 to 32 AMP, in the MCB DB Complete with connection testing and commissioning. (Make:Legrand/ ABB / Schneider)	36.00	Each	295.00	10620.00

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

Item Code	Item Description	Quantity	Unit	Rate/Unit	Amount
61	Material and labour for Brick walls cutting chases, pinning in, making good to facing where required and pointing in cement mortar 1:3 to ends and cutting chases for concealed conduit wiring, etc., and making good, cutting exc. 10 cm but not exc. 20 cm grith.	32.00	m	60.00	1920.00
62	Material and labour for preparing new surfaces plastered, on this first coat and subsequent coat of distempering walls with distempering oil emulsion as same existing colour.	29.00	m2	65.00	1885.00
63	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 etc. removing materials to store for keeping in safe custody for taking credit and making good disturbed surfaces of wall, floors, etc.	150.00	Point	140.00	21000.00
64	LESS CREDIT Dismantled items of 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 etc.	150.00	Point	-9.00	-1350.00
Total of Items Rs.					6588746.00
Add Taxes as applicable Rs.					0.00
Gross Total Rs.					6588746.00


(K. TULASI RAO)

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For CHIEF GENERAL MANAGER / HVF
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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)



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ANNEXURE-A

SAFETY POINTS TO BE CONFIRMED AND FOLLOWED BY THE CONTRACTORS:

1	Working with Safety is the responsibility of every worker individually and collectively. The contractor will be fully responsible for safe working at site.
2	Contractors should ensure that workers under his control do not come to work under the influence of intoxicants. Any worker found on duty under the influence of liquor or of intoxicating drugs, will be liable to severe disciplinary action / removal from site.
3	The contractor shall ensure of necessary shut- down where ever there are hazards of gases, electricity, moving machineries etc., by the executing department & also ensure that these shutdown clearances are taken in writing before sending workers to such locations.
4	Height Pass (Permit for working at heights) and Safety permit must be obtained by the contractor from Safety Section / HVF, before commencement of the work and the same shall be handed over to Engineer In-Charge (EIC).
5	Every worker who is to be deployed for working at height must submit a certificate from a Government Doctor that he has been examined for physical and mental fitness and certified to be fit. This certificate is to be produced every six months. The fitness will include freedom from (1) Epilepsy (2) High BP (3) Obesity (4) Vertigo along with general fitness and good eye sight.
6	The persons engaged by the contractor must have the training certificate of working at heights issued by a reputed institution.
7	All work at height must be carried out under the supervision of an Experienced and Trained Supervisory Team wherein the workers and Supervisory staff are well conversant with use of Personnel Protective Equipments (PPE's).
8	There must be one supervisor to exclusively monitor the activities of workers at the roof to ensure that all people are adhering to all safety precautions like laying of net at top of roof, safety belt and fall arrestor tied with lifeline in addition to the supervisor at ground work spot.
9	List of PPEs proposed to be used along with Test Certificate of the same must be submitted by the Contractor to EIC before start of work.
10	The safety of Men and Material is the entire responsibility of the Contractor. The Workers must limit their movement to the designated work areas and not loiter around.
11	The contractor must take Insurance policy for workman covering workman's compensation act and submit the copy of the same to EIC before commencement of work.
12	The Contractor should commence the work only after clearance for starting the work is given by EIC / SIC / Safety Section representative / User Section representative / Service section representative (if involved) in writing after ensuring compliance of all safety instructions, safe work conditions and regulations. It must be ensured that all safety requirements like use of Safety belts, full body harness, Life line Protection, Helmets, Safety nets etc., in place and ready to be used by their labours.
13	The Contractor must use BOOM lift for Climbing up / down from heights.
14	Before Commencement of work at height all moving equipments under roof sheet where work is to be carried out shall be shut.
15	Workers should be conversant with the use of Retractable fall arrestor, life line, safe work ladder, duck ladder, crawling board , Helmets etc., The work of fixing safety net must be carried out by experienced person and precaution be taken so that net is fixed to a structural member sufficiently strong to bear at least one ton load and on sagging under the load of fall the net must not strike a machine structure or part of building or crane.
16	Ladders, if used, must have a nylon rope for tying on top and bottom with suitable self locking hooks, screws, rings etc.,
17	Use of Anchor plates to fix the lifeline etc must be done wherever necessary / feasible
18	In case the site conditions demands, a Safety Net may be fixed firmly on the fragile roof with the help of J-Bolts and this must be used for taking a life line. Proper training for the above must be imparted by the contractor to workers working on fragile roof and in any case fragile roof must not be taken for granted as safe.

19	During climbing on roof or on electrical pole using ladder or otherwise precautions must be taken to use two self locking hooks with lifelines and as climbing these hooks should be alternatively attached and detached with the cross bars / foot bars to prevent any eventual fall due to slippage. After reaching the roof of the top end of the ladder must be tied to the pole / fixed structure on top of the roof and work should be started thereafter.
20	The workers working at height must be cautioned not to allow leaving of loose items like broken sheets over the roof after completion of work.
21	Before starting the work, the area of work at height must be clearly defined and accordingly safety net of sufficient size should be put covering an area of 2.5 meters beyond the working area on all sides. The area of work at height and the approach also to be earmarked. The workers must specifically follow the specified route to reach the work area. If approach route is not firm than appropriate PPE as mentioned above must be used to ensure safety at work.
22	The Engineer in-charge executing the contract upon his satisfaction that the Contractor is not performing as per the safety requirements may direct stoppage of work. The contractor shall not proceed with the work until he has complied with such directions to the satisfaction of concerned Engineer in-charge.
23	On getting a Verbal intimation from Safety Section representatives / User Section representative regarding in any lapses in safety by the Contractor or his workers, the work should be stopped immediately. The verbal intimation must be followed up with written statement to civil section (Executing Section). After receiving the written statement from above representative, the EIC may pass orders wherein the contractor shall be liable for penalty of Rs.5000/- for the first violation, Rs. 10000/- for the second violation and Rs. 20000 /- for the Third Violation. For the Fourth violation his contract shall be liable cancelled and to be debarred from further contracts. The penalty / fine amounts will have to be deposited by Contractor in the form of MRO and the MRO will be handed over by the contractor to the EIC.
24	Suitable scaffolding should be provided for workmen for all works that cannot be safely be done from the ground or from solid construction.
25	While standing on the valley gutter, the safety belt should be worn and the life line should be tied to the purlin of the adjacent bay
26	In case the Contractor need to engage material handling equipments from outside, the following documents are required to be submitted to HVF without fail ; - Competent person certificate issued by Competent Person approved by the Directorate of Industrial Safety and health. - Registration certificate of the equipments - Lifting tackles like wire rope, slings are also to be certified by the Competent person as they are part of the lifting material handling equipments. - The valid driving licenses of the driver who operates the material handling equipments.



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For CHIEF GENERAL MANAGER / HVF

For And On Behalf Of THE PRESIDENT OF INDIA

**NAME OF THE WORK : REPAIRS TO THE ROOF OF MARKET AREA BUILDING, CIVIL ENGINEERING
GODOWN AND ELECTRICAL BUILDING AT HVF ESTATE**

GENERAL SPECIFICATIONS

1. Sand : Fine aggregate for concrete work shall conform to materials specifications and grading within the limits of grading zones II or III all as specified in clauses 4.4 to 4.4.7.3 of MES Schedule Part-I. Contractor may without any extra cost in lieu of river sand use manufactured sand (crushed stone sand) produced from hard granite/basalt/black trap stone, having cubical shaped particles with ground edges of ground gradation zone II / III as per IS 383 – 1970 as applicable. In the market it is known as M-sand / Robo sand / I-sand etc. For pricing deviations, SSR rates shall only be applicable without any price adjustment for manufactured sand. However manufactured sand shall be used only in concrete, Cushioning and masonry works. For plastering, river sand shall only be used.
2. The brick to be used for the work shall be of well burnt, good quality bricks free from cracks, flaws, wraps and nodules of free lime and shall be of uniform sizes and shape.
3. The aggregates to be used for the concrete shall be of black or blue hard granite aggregate free from quarry dust, earth etc. The size of the aggregate shall be of uniform size as per the requirement. Flaky & elongated pieces over sizes shall be avoided.
4. The cement to be used shall be of OPC (Ordinary Portland Cement) of 43 Grade and 53 grade in accordance with IS8112-1989 only of **The Associated Cement Companies Ltd.,** Grasim Industries Ltd, Ultra Tech Cement, The India Cement, Dalmia Cement, Andhra cement Ltd., Century Cements, Saurashtra Cement, Madras Cement, Mangalam Cement, Birla Cement, Orient Cement, Lafarge Cement, Shree Cement, J.K. Cement, Jaypee Rewa Cement, Binani Cement, Lakshmi cement, Gujrat Ambuja Cement and Bangur Cement, age not more than six months from date of manufacture.
5. All the Mass concrete work should be of Ready Mix Concrete (RMC). RMC shall be procured by the contractor from the producers whose RMC plants are fully Automatic plants and conform to the IS 4926-2003 and IS 4925-2004.
6. The concrete test certificate for samples taken at RMC plant should be submitted to E-I-C.
7. The contractor should cast 3 Nos. of concrete cube per 200 CUM of concrete at site. The testing of concrete cubes to be done by the contractor at his own cost at government approved testing lab. The relevant test certificate should be submitted to E-I-C.
8. All the cement works shall be cured for at least 21 Days.
9. The normal concrete shall be of machine mixed and no manual mixing shall be allowed and the materials required for the concrete and the cement work shall be measured by means of weigh batching/ measurement boxes only as directed by E-I-C and no other mode of measurement shall be allowed.
10. All the concrete work shall be compacted using mechanical vibrator or surface vibrator as required.
11. The tiles for the work to be used shall be of JHONSON / KAJARIA / NITCO make
12. The Structural Steel to be used shall be of RINL – VIZAG Steel / SAIL / TATA – TISCON / " BIS" Marked Primary manufacturers.
13. The primer to be used on steel and wooden surface must be of first quality ASIAN / NEROLAC / BERGER make only
14. The enamel paint / External Emulsion / Internal Emulsion / OBD to be used must be first quality ASIAN / NEROLAC / BERGER make only. The Cement Paint to be used must be first quality SUPERCEM / DUROCEM / SNOWCEM
15. All the materials must be approved by E-I-C before incorporation into the work and shall have ISI / BIS Mark.
16. All Sanitary fitting make shall be of Make – Parryware / Hindware / Nycer / Johnson
17. Wherever make of any item is specifically mentioned in the description of the BOQ Items, the items/material of that specified make must be supplied/fixed by the contractor with the approval of E-I-C

GENERAL CONDITIONS

- 1 All the works are to be carried out as per the Standard Procedure laid in SSR '2009 Part-I
- 2 All the materials, tools etc , required for the work shall be the responsibility of the Contractor.
- 3 The safety of men and materials shall be the responsibility of the contractor. CGM/HVF will not have any responsibility in this account. The contractor will be solely responsible for any accidents occurring during execution of the work
- 4 All the materials shall be got approved by E-I-C before incorporation into the work and shall have ISI Mark. Original cash vouchers of materials purchased and used by contractor on the work shall be submitted to EIC/ Site in-charge for record. Inward gate pass of all materials being brought by contractor are to be made on a pucca bound register and got it checked along with cash vouchers from the E-I-C/Site-In-Charge at the time of its entry in the Factory/Estate.

- 5 The contractor should take Workmen compensation, Insurance Policy as per Workmans Compensation Act for the workers in this work and copies of the same shall be handed over to E-I-C before commencement of the work. Further, in case of the death of the contractor person, the contractor will have to arrange for the compensatory payment after meeting the legal heir of the deceased and obtain the necessary acknowledgement for having made the payment. A copy of the same should be submitted to the Principal employer (CGM) within 30 days of the accident. If any failure in this regard happens on the contractors part, the recovery of the amount shall be arranged from the contractors bill.
- 6 The entire work shall be carried out as per the relevant clauses/ specifications of **MES SSR 2020 and SOP for Civil Works in AVNL – 2021.**
- 7 The contract period shall be '**TWELVE MONTHS**' (365 DAYS) from the date of handing over the site.
- 8 The maintenance period shall be '**TWELVE MONTHS**' from the date of completion of the work.
- 9 The contractor may visit the site before quoting their rates with prior appointment with Divisional Officers of CE / EE
- 10 The safety norms shall be strictly followed and any deviation will lead to cancellation of the contract agreement.
- 11 All the workmen should confine to their work spot only and should not venture into areas other than the work spot.
- 12 The work shall be completed within the stipulated period, failing which liquidity damages shall be deducted from the Contract amount as per **IAFW 2249 and SOP for Civil Works in AVNL - 2021**
- 13 Any damages to Government property, shall be made good free of cost by the contractor
- 14 The dismantled materials except credit item if any shall be returned to CE / EE stores intact.
- 15 The order is for complete work and on completion of the job; the work shall be jointly inspected by the Contractor and CE / EE representatives.
- 16 Adequate safety precautions are to be adopted by the Contractor while working at height such as i) Safety Helmets to all the personnel, ii) Roof ladder shall be arranged for roof work, iii) Full Body harness safety belt shall be arranged for the workmen, iv) Retractable fall arrestor to be arranged by the contractor's workmen working at height, v) Life line to be arranged for the personnel working at height, vi) Safety net to be tied as per safety norms.
- 17 Safety permit shall be obtained by the contractor from safety section /HVF before commencement of the subject work and same shall be handed over to EIC.
- 18 The contractor shall engage skilled labourers only, for the works such as Roof Work, Masonry, plumbing, plastering, Painting and electrical works etc.
- 19 The contractor shall engage a qualified site supervisor and his relevant qualification certificate shall be produced before commencement of work to E-I-C to maintain all the relevant records and documents.
- 20 All Xerox copies of material pass in slips shall be handed over to CE / EE
- 21 The demolished debris shall be disposed off from the site as per the directions of E-I-C
- 22 The Labours to be employed for roof work shall be insured and the copy of the insurance shall be handed over to the Engineer-In-Charge before the commencement of work.
- 23 The order is for complete work and any minor material/minor civil work required for completing the work is deemed to have been included in the quotation, if not specifically stated otherwise.
- 24 The contractor must submit the Certificates / documentations obtained from the Original Manufacturer / Authorised Dealers to prove the genuineness / Authenticity of the branded - materials / chemicals / products being supplied / used during execution as per scope of work of the Contract Agreement. These documents must be submitted to E-I-C before using the materials.
- 25 In view of the safety of Man and Materials, the Contractor is advised to use Boom Lift for doing all the work involving working at height including all types of roof works, under the roof works and roof related works.
- 26 The contractor are advised to visit the work site with prior permission of Divisional Officers of CE / EE for inspection of the site for seeing the suitability of Using Boom Lift for all types of work involving working at height including all types of roof works, under the roof works and roof related works.

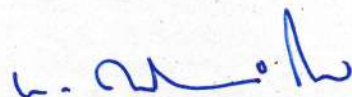
PARTICULAR SPECIFICATION

- a) All the materials shall be got approved before incorporation into the work from E - I - C.
- b) Galvalume sheet shall be 0.50mm thick (total coated thickness), 550 Mpa minimum yield strength. It shall be coated with hot dip alloy of 55%, Aluminium 43.5%, Zinc 1.5% Silicon and finished with resin coat on both surfaces @ 150gm/sqm of coating (total both surfaces) having overall width and laid width as specified and shall be fixed using hot dip galvanized, self drilling and self tapping screws neoprene and EPDM washers. Penetrations and laps in sheet shall be sealed by using proper sealant profile. HDPE filters shall be provided wherever required to close voids between sheets, sheet & fasteners etc., Fixing system shall be as per manufacturers instruction and shall be safe against effects of wind velocity. And the galuvalume sheets shall be of "TATA BLUE SCOPE BUILDING SOLUTIONS", "JSW ISPAT STEEL LTD", "LLOYD INSULATIONS", "KIRBY BUILDINGS SYSTEMS", "MULTI COLOUR STEELS", "ZAMEL STEEL BUILDING INDIA PVT LTD", "BHUSHAN STEEL LIMITED", "META TECH COMSTN PVT LTD", "COLOUR ROOF INDIA LTD", "CENTURY WELLS ROFFING INDIA LTD", "ISPAT INDUSTRIES LTD" Makes only. Fixing system shall be as per manufacturers instructions.

- c) Valley Gutters shall be provided with proper slope over the MS brackets and joints has to be soldered /fixed with leak proof paste and connected to the existing down take pipe with seamless joint.
- d) Dismantling and re-fixing of the lightening conductors has to be done carefully without damaging the aluminum straps and lightning receivers any damage occurs should be replaced by the contractor at free of cost.
- e) After completion of the work lightening conductors has to be checked to ensure the proper functioning.
- f) The contractor should visit the site before quoting the tender. The Galvalume / Asbestos Cement Sheet / Non Asbestos high impact polypropylene reinforced cement corrugated sheet profile should match the existing / damaged sheets profile. The profile / Colour of the Galvalume sheet shall be approved by EIC.
- g) The Asbestos Cement sheet make shall be of "RAMCO, VISAKA, ACC, EVEREST. The make shall be approved by EIC.
- h) The Non Asbestos high impact polypropylene reinforced cement corrugated sheet make shall be of "RAMCO, VISAKA, ACC, EVEREST, HIL or equivalent. The make shall be approved by EIC.
- i) The MS Flat shall be fixed on top of existing galvalume sheet / Asbestos Cement Sheet / Non Asbestos high impact polypropylene reinforced cement corrugated sheet according to the existing alignment of the purlin below the galvalume sheet with anti corrosive self tapping screws with EDPM washers and "J" bolt with required washer(to prevent the leakage of water) at the rafter portion. The flat shall be fixed with anti corrosive self tapping screws with EDPM washers over crest of Galvalume sheet and the screw heads shall be applied with MS polymer (modified selaine) based sealant / adhesive to seal drilling holes in MS Flat / Galvalume sheet.
- j) The structural Mild Steel to be used for the work shall be of SAIL, VIZAG, JINDAL STEEL, JSL Ispat, TATA

ELECTRICAL PARTICULAR SPECIFICATION

- 1 All the materials shall be got approved before incorporation into the work from E-I-C.
- 2 The material used should conform to relevant I.S specification with ISI mark.
- 3 Wiring work should confirm to IS 732 code of practice for electrical wiring installations.
- 4 Wiring should be done block wise and shall be completed in all respect so as to restore the supply in the evening.
- 5 Earthing work should confirm to IS 3043 strictly.
- 6 All steel parts should be painted with one coat of red oxide and two coats of synthetic enamel/ aluminum paint as directed.
- 7 All nuts, bolts, screws etc., used for the works will be galvanized/cadmium plated.
- 8 On completion of work, the contractor should carry out all the tests and submit all the documents (IR & ER values) specified including drawing/layout of the work done.
- 9 The work is for complete work and any minor material/minor civil work required for completing the work is deemed to have been included in the quotation, if not specifically stated otherwise.
- 10 While selecting concealed boxes of sun mica top sheet sizes should be 90x90mm, 130x130mm, 130x180mm or 230x330mm and box depth to be maintained 65mm (minimum). Box should have proper fixing arrangement for earth lid and sun mica top.
- 11 The Contactor shall take shut down with the knowledge of Concerned Shop and deploy their workmen. All safety precautions shall be taken while working.



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INSTRUCTIONS TO CONTRACTOR

- 1 The work is to be completed within the period (in accordance within the phasing, if any, indicated in the tender) from the date of handing over of the site, which will on or about.
- 2 Execution of the subject work shall be carried out strictly as per the specifications mentioned in MES SSR-2009 Part-I and the materials shall be used as per IS Specifications and also as instructed/directed by Site In Charge/ Engineer-In-Charge of the work from time to time.
- 3 All good quality of materials shall be brought by the contractor for incorporation in the work shall be got checked & approved by EIC/SIC before incorporating in the work. All ISI marked/ EIC approved materials for Building materials and approved branded Electrical materials as directed by EIC shall be supplied by the Contractor for incorporation in the work.
- 4 The Contractor shall follow and execute all works as per the instructions of SIC/ EIC with the approval at every stage and then progress the work. The progress of the work shall be recorded day-to-day basis in the prescribed work diary for checking.
- 5 The Plant & Machineries like concrete mixer, vibrator & other machineries like tools, tackles, welding arrangement, Gas cutting equipments etc., has to be arranged by the contractor of his own and shall be in good condition.
- 6 PVC-Verification Report for the workers to be deployed on work inside the Factory shall be arranged by the Firm on their own.
- 7 Water & Electricity will be supplied by HVF at the prescribed /prevailing charges and the same will be deducted from the Contractors Bill. And electrical charges given by EE Section should be deposited as directed in Cash office and submit the acknowledgement.
- 8 The copies of relevant documents showing the work done of similar nature of work shall be enclosed /mentioned to enable verification by HVF.
- 9 The contractor shall give details of Engineers, Technical persons skilled persons with their qualifications & experience along with the details of Plant & Machineries, Trucks & other machineries owned by him for execution of the work.
- 10 The Contractor shall submit a Bar Chart/ PERT Chart showing the completion of the work showing the simultaneous progress of independent works at the same time so as to complete the work within the stipulated time. The chart shall indicate the planning of the work with progress and completion in time. The Contractor shall give PDCs for various stages of work to enable monitoring of work progress.
- 11 The Contractor shall have to adhere to all the safety rules/ regulations laid down by safety section /HVF & General safety instructions from time to time.
- 12 The Contractor has to follow all the rules and regulations laid down by the IAFW-2249, MES (Defence Services Rules & Regulations) and SOP for Civil works in AVNL- 2021.
- 13 The Contractor shall make arrangement to clear the area in and around the work site and remove all debris emerged out from the site shall be cleared as per instruction of EIC/SIC and as per the contract conditions.
- 14 The contract will be executed as per the General Conditions of Contract IAFW-2249 and SOP for Civil works in AVNL- 2021.
- 15 All Government Taxes as applicable from Time to Time, including GST for Civil / Electrical works, shall be borne by the Contractor and the quotation / offer shall be inclusive of all taxes including GST. It will be the duty of the contractor to completely update himself about prevailing taxes and rates and this office will not issue any certificate regarding taxes.
- 16 The offer should confirm to technical specification and general conditions of contract.
- 17 Agreed-for execution of work inside the factory (Restricted Area) by adhering all Factories, Security & Safety Rules & regulations which are in force.

- 18 Agreed for bringing material for incorporation in the work as specified/ as directed/ as per IS specified and approved.
- 19 Terms & Conditions of payment mentioned in Contract is Acceptable.
- 20 Agreed for Condition No.25 under sub Para (c) of IAFW-2249 regarding Contractors Supervision.
- 21 Agreed for inspection of work at every stage of work.
- 22 Agreed for deploying only Police verified (PVR) Workers.
- 23 The Contractor shall be solely responsible for the soundness of the structure including lean period. The contractor shall guarantee satisfactory performance of the work for a period of 12 months from the date of successful completion of the work.
- 24 The firm shall undertake to rectify any defect including replacement of defective parts resulting from faulty design, poor workmanship, bad materials etc., during the erection as well as within guarantee period free of charge.
- 25 Agreed for submission of Security Deposit as mentioned in the contract.
- 26 Compensation for delay in completion of the work/ Liquidated damage clause is accepted.
- 27 Arbitration Clause: All disputes & differences arising out of or in any way touching or concerning this agreement (except these for which specific provision has been made therein) shall be referred to Sole Arbitrator to be appointed by CMD/AVNL, Government of India. The Arbitrator so appointed shall be a Government servant who had not dealt with matters to which this agreement relates and in course of this duties had not expressed views on all or any of the matter in disputes or differences. The award of the Sole Arbitrator shall be final and binding on the parties.
- 28 Dispute subject to Tamilnadu Jurisdiction accepted.
- 29 The firm is agreed the clause of compensation as well as Risk and Cost and it is hereby agreed the same.
- 30 No worker less than eighteen years of age on the date of employment shall be engaged by the contractor for the work.
- 31 Contractor has to obtain a Certificate from Labour Commissioner (C), Tamilnadu if he employ more than 10 workmen or less than 20 workmen under Building & Construction Works (RE-CS) Act 1996 & Central Rules 1998.
- 32 The workers shall be paid as per the Minimum Wages Act 1948 and to be followed as per the notification issued from Ministry of Labour from time to time
- 33 The workers engaged above 3 mtr. Height shall be medically checked and necessary medical certificate shall be produced.
- 34 The contractor must carefully study the safety provisions as mentioned in Annexure "A" of the tender and must follow the safety precautions and measures totally. By confirming compliance to this point, the contractor submits his compliance to follow all the safety provisions mentioned in the Annexure.
- 35 The contractor must carefully study all files listed in the tender attachment (in pdf) and must follow the same. By confirming compliance to this point, the contractor submits his compliance to follow all the provisions / clauses mentioned in the tender attachments.
- 36 In Accordance with condition No.22 of the General Conditions of the Contract (IAFW-2249), the Security Deposit must be deposited within 30 days from the date of issuance of order covering the execution period and maintenance period, drawn in favour of Chief General Manager / HVF, Avadi, Chennai in the form of FDR/TDR/BG from any Nationalised Bank.



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