



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
शिमला हवाई अड्डा, शिमला (हि. प्र.)
SHIMLA AIRPORT, SHIMLA (H.P.)



पत्र संख्या : भा.वि.प्रा./शिमला/ईजी – सिविल /2022-23/1478

दिनांक: 25.08.2022

कार्य आदेश / Work Order

सेवा में
मेसर्स एम एल ब्रदर,
एफ 22/117 सेक्टर 3,
रोहिणी 110085 दिल्ली.

To
M/s M L BROTHER,
F22/117 Sector 3,
Rohini 110085 Delhi.

विषय: Construction Of Office And Rest Room At First Floor Of Existing Office Block At Shimla Airport.

संदर्भ : 1. E-tender ID:- 2022_AAI_119940_1, dated:-22.06.2022.
2. Open Financial Bid on dated 28.07.2022.

महोदय,

- उपरोक्त कार्य हेतु आपका e-tender अध्यक्ष भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है आपके द्वारा कोट किए गए मद मूल्यों पर आपकी कुल राशि रु. **43,09,180/- (excluding GST)** (रु. केवल तैंतालीस लाख नौ हजार एक सौ अस्सी) है जो कि अनुमानित लागत रु. **46,25,540/- (excluding GST)** से **6.84%** कम है।

Your e-tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India at the items rates totaling to रु. **43,09,180/- (excluding GST)** (Rs. Fourty three lacs nine thousand one hundred eighty only), which is **6.84%** % below the estimated cost put to the tender of रु. **46,25,540/- (excluding GST)**

- संयुक्त महाप्रबंधक (ई.-सिविल), जुब्बरहट्टी विमानक्षेत्र, शिमला इस कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप करारनामे पर हस्ताक्षर करने हेतु कार्य आदेश के जारी होने से पंद्रह दिनों के अंतर्गत किसी भी कार्य दिवस में कार्यालय संयुक्त महाप्रबंधक (ई.-सिविल), जुब्बरहट्टी विमानक्षेत्र, शिमला, हिमाचल प्रदेश – 171011 पर उपस्थित हों एवं करारनामे को पूरा करें। ठेके का कारनामा रु. 100/- के नॉनजुडिशल स्टॉप पेपर पर निष्पादित किया जायेगा तथा पेपर का खर्च आपके द्वारा उठाया जायेगा।

Joint General Manager (E-C), Jubberhatti Airport, Shimla will be the Engineer-in-Charge of the work. You are requested to attend the Office, Joint General Manager (E-C), Jubberhatti Airport, Shimla, Himachal Pradesh -171011 to sign and complete the agreement within 15 days of issuing of this work order. The contract agreement shall be executed on a Non-Judicial Stamp paper of Rs. 100/- and the cost of the stamp paper shall be borne by you.

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Shimla Airport :- 171011 Tel. :- 0177-2736835 Fax :- 0177-2736673



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Contd.....2/-

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3. बैंक गारंटी के रूप में आपके ई-निविदा के साथ प्राप्त बयाना राशि 92,511/- (बयानवे हजार पांच सौ ग्यारह रुपये मात्र) की राशि को सुरक्षा जमा के हिस्से के रूप में माना जाएगा और परिवर्तित किया जाएगा। कृपया इस पत्र के जारी होने की तारीख से 10 दिनों के भीतर सुरक्षा जमा के रूप में रु. 3,38,407 (तीन लाख अड़तीस हजार चार सौ सात) जमा करें, ऐसा न करने पर खंड संख्या की शर्त के अनुसार कटौती की जाएगी। 1(ए) पेज नं. निविदा दस्तावेज का जीमीसी-16।

The earnest money amount of Rs 92,511/-(Rupees ninety two thousand five hundred eleven only) received only along with your e-tender in form of Bank Guarantee will be treated and converted as part of security deposit. Please deposit Rs.3,38,407 (Rupees Three lacs thirty eight thousand four hundred seven only) towards security deposit within 10 days from the date of issue of this letter failing which, the same will be deducted as per condition of clause no. 1(A) at page no. GCC-16 of tender document.

4. आपसे निवेदन है कि आप केंद्रीय एवं राज्य सरकारों के 1970 के अधिनियम अनुबंध श्रम नियम तथा 1971 के केंद्रीय नियम (नियमन तथा उन्मूलन) तथा केंद्र एवं राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन करें।

You are requested to comply with the Provisions of Contract Labor (Regulation & Abolition) Act of 1970 and Contract Labor (Regulation & Abolition) Central Rules 1971 and Minimum Wages Act & Rules there of Central and State Governments.

5. आपको निर्देश दिया जाता है कि आप प्रबंधक (ई.-सिविल), शिमला विमानक्षेत्र से मिलें और वह साइट सौंपने की व्यवस्था करेंगे। कृपया नोट करें कि कार्य का निर्धारित समय 02 महीना है, जो कि इस पत्र के जारी होने के दिनांक से 10 वे दिन से गिना जाएगा।

You are directed to contact Manager (E-C), Shimla Airport who will arrange to handover the site to you. Please note the time allowed for carrying out the work is 02 months which shall be reckoned from 10th day of issue of this letter.

6. इस ठेके के सम्बन्ध में आगे का कोई भी पत्राचार वरिष्ठ प्रबंधक (ई.-सिविल), ए.ए.आई. जुब्बरहट्टी विमानक्षेत्र, शिमला, हिमाचल प्रदेश - 171011 के पते पर किया जाए।

Any further correspondence in connection with this contract should normally be addressed to Joint General Manager (E-C), AAI, Jubberhatti Airport, Shimla, Himachal Pradesh -171011.

7. आपको रनिंग बिल भुगतान की अनुमति दी जाएगी। किए गये कार्य के कुल मूल्य का दस प्रतिशत बिल से सुरक्षा भुगतान के रूप में काट लिया जायेगा। सरकार के दिशा निर्देशों के अनुसार कोई अन्य कटौतियां (यदि हो तो) की जाएगी।

You will be allowed for Running Bill payment. Ten percent of total value of work done shall be deducted as security deposit from the bill. Any other deductions (if any) as per govt. guidelines will be done

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Contd.....3/-

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8. उपरोक्त संदर्भित सभी पत्र इस ठेके का भाग होंगे।
All the letters referred above shall form part of contract.
9. ठेके की त्रुटि दायित्व अवधि 6 महीने की है जो कि कार्य समाप्ती की तिथि से गिना जाएगा।
The defect liability period is 6 months after the actual date of completion.
10. यदि अंग्रेजी और हिन्दी के पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जाएगा।
If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

कृपया पावती भेजें।

Please acknowledge the receipt.

(भूदेब सरकार/Bhudeb sarkar)

संयुक्त महाप्रबंधक (ई.-सिविल)/Jt. General Manager (Engg.-Civil)

कृते तथा की ओर से, अध्यक्ष भारतीय विमान पत्तन प्राधिकरण

For and on Behalf of Chairman, Airports Authority of India

शिमला विमान क्षेत्र / Shimla Airport.

संलग्न/ Enclosed: शेड्यूल आफ क्वांटिटी /Schedule of Quantity

SCHEDULE OF QUANTITIES

Name of Work : - Construction of offices and rest room accommodation for AAI officials above existing office building at Shimla Airport.

Sr. No.	Description of Item.	Unit	Qty.	Rate	Amount (in Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed. a) All kind of soil	cum	75	200	15000
2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20mm nominal size)	Cum	3	6000	18000
3	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality, H.D. - 20, Circular shape 560 mm internal diameter	each	2	3000	6000
4	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	12	300	3600
5	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	3.5	6000	21000
6	12 mm cement plaster of mix : (a) 1:6 (1 cement : 6 fine sand)	sqm	576	220	126720
7	15 mm cement plaster on the rough side of single or half brick wall of mix (a) 1:6 (1 cement : 6 fine sand)	sqm	217	250	54250
8	6 mm cement plaster of mix. (a) 1:3 (1 cement : 3 fine sand)	sqm	127	220	27940
9	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	792	80	63360
10	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives. (a) New work (Two or more coats applied @ 1.43 litre/10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm	sqm	217	120	26040
11	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. (a) Two coats	sqm	576	100	57600
12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. (a) Thermo-Mechanically Treated bars	Kg	236	120	28320
13	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. (a) Hot finished welded type tubes	Kg	9774	140	1368360
14	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : (a) Two or more coats on new work	Sqm	3338	80	267040
15	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	375	650	243750
16	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : North light curves	m	35	600	21000
17	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	Sqm	154	800	123200
18	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	Sqm	66	800	52800
19	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Each	11	1000	11000

20	Providing and fixing aluminium sliding door bolts, ISI marked anodised anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete a) 300x16 mm	Each	16	200	3200
21	Providing and fixing aluminium sliding door bolts, ISI marked anodised anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete a) 250x16 mm	Each	6	200	1200
22	Providing and fixing bright finished brass door latch with necessary screws etc. complete : 300x16x5 mm	each	11	600	6600
23	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodiccoating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : a) 250x10 mm	Each	22	100	2200
24	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodiccoating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : a) 200x10 mm	Each	40	80	3200
25	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : a) 125 mm	Each	16	100	1600
26	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : a) 75 mm	Each	6	80	480
27	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady] the frame.	Meters	15	700	10500
28	Providing and fixing to existing door frames. 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS : 14856, including fixing to frames.	Sqm	5	4000	20000
29	Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately). a) Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	Sqm	8	1000	8000
30	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross 'T' of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x16 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK	sqm	208	1000	208000
31	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : a) W.C. pan with ISI marked white solid plastic seat and lid	Each	3	5000	15000
32	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. Brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: a) White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	each	3	3000	9000

33	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	each	3	2000	6000
34	Providing and fixing white vitreous china battery based infrared sensor operated unival of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge	Each	2	4000	8000
35	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : (a) Rectangular shape 453x357 mm	Each	5	1000	5000
36	Providing and fixing soil, waste and vent pipes : a) 100 mm dia Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Mtr	150	1000	150000
37	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.	Each	6	500	3000
38	Providing and fixing plain bend of required degree : a) 100 mm dia	Each	10	500	5000
39	Providing and fixing heel rest sanitary bend a) 100 mm dia	Each	4	500	2000
40	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work exposed on wall a) 20 mm dia nominal bore	Meter	30	400	12000
41	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : a) 15 mm dia nominal bore	Meter	50	400	20000
42	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. - External work.	Meter	50	500	25000
43	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. - External work. A) 50 mm dia nominal bore	mtr.	50	800	40000
44	Providing joints to spun iron or C.I. pipes and specials with Drip seal including testing of joints etc complete as per satisfaction of Engineer -in- charge. a)100 mm dia	Each	50	1100	55000
45	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
	(a) 15 mm nominal bore	each	2	200	400
	(b) 20 mm nominal bore	each	2	300	600
	(c) 50 mm nominal bore	each	2	500	1000
46	Providing and fixing C.P. brass bib cock of approved quality conforming to IS.8931 (a) 15 mm nominal bore	Each	3	600	1800
47	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	Each	6	600	3600
48	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design a) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	8000	16000
49	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	517	400	206800
50	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item). With float glass panes of 5 mm thickness	sqm	90	1000	90000
51	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc. by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry	Sqm	40	500	20000

52	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	44	130	5720
53	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness. Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade. 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Gutter (600 mm over all girth)	mtr.	78	600	46800
54	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Ltr	2000	10	20000
55	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	sqm	51	3000	153000
56	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed with steel conduit as required.				
	a) 2 X 1.5 sq. mm	Meter	1000	150	150000
	b) 2X2.5 sq. mm	Meter	500	200	100000
	c) 2X4 sq. mm	Meter	550	250	137500
57	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.	Meter	40	120	4800
58	Supply of Modular GI boxes along with base & Cover plate of following sizes				
	a) Modular along with modular base & cover plate of GI box for 12 Module	Each	35	500	17500
	b) Modular along with modular base & cover plate of GI box for 8 Module	Each	10	500	5000
	c) modular along with modular base & cover plate of GI box for 3 Module	Each	20	500	10000
59	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	50	100	5000
60	Supplying following modular switch/ socket and fan regulator				
	a) One way Modular Switch 5/6 Amps	Each	150	300	45000
	b) One way Modular Switch 15/16 Amps	Each	60	150	9000
	c) 3 pin 5/6 Amps socket outlet	Each	110	200	22000
	d) 6 pin 15/16 Amps socket outlet	Each	60	100	6000
61	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	10	500	5000
62	Supplying and fixing of following ways surface/recess mounting, vertical type, 415 volts, TPN MCB distribution board of steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but with out MCB's and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)	Each	1	10000	10000
63	a) 12 Way (4+36), TPN, vertical type, MCB DB, Double Door				
	Supplying and fixing 5 amps rating, 240/415 volts, 10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required	Each	20	300	6000
64	a) 6-32 Amps. Rating, SP MCB, "C" curve, 10 KA breaking capacity				
	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	1	4500	4500
65	a) 100A 4 pole isolator				
	Installation, testing and commissioning of prewired, fluorescent fittings(LED'S) / compact fluorescent fitting of all types, complete with all accessories etc. directly on ceiling/ wall/ false ceiling, including connections with 1.5 Sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	29	500	14500
66	Ceiling Fan 1400 mm	Each	8	3000	24000
	a) Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 Sq. mm. FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	8	200	1600
67	Supply of Exhaust Fan 300 mm	Each	3	3500	10500
	a) Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. [Upto 450 mm Dia]	Each	3	200	600
				Total Cost	4309180
	Total amount in words: Forty Three Lakhs Nine Thousand One Hundred Eighty Only				


Joint Gen. Manager (Engg.-Civil)
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