

Government eProcurement System Created By: UJAWAL KATHALE Created Date/Time: 06-Apr-2023 01:13 PM Tender Title: Modification works in existing ATS Complex and Sky Tower. Tender ID: 2023_AAI_146371_1										
Tender Inviting Authority: AGM (E-C), O/o. ATS Complex, Andheri (East) Mumbai-400099										
Name of Work: Civil & Electrical Works for New Automation System at Mumbai Airport. SH - Modification works in existing ATS Complex & Sky Tower. (Phase - I)										
Contract No: AAI/WR/MUM/ATS/E-C/155/2023										
SCHEDULE OF WORK / ITEM(S)										
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estima ted Rate	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD(GSTN-		K N RAI(GSTN-NA)			
					Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor
1.00	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum moisture resistant board	1922.00	sqm		1009.00	1939298.00	1600.00	3075200.00	1939298.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD

2.00	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. 75mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum plaster board conforming to IS: 2095: (part I): 2011 (Board with BIS certification marks)	1625.00	sqm
3.00	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 fixed portion :Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	757.00	kg
4.00	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) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	706.00	kg
5.00	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	110.00	sqm
6.00	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width.	330.00	m

1271.00	2065375.00	1740.00	2827500.00	2065375.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
621.00	470097.00	550.00	416350.00	416350.00	K N RAI
621.00	438426.00	550.00	388300.00	388300.00	K N RAI
8342.00	917620.00	3450.00	379500.00	379500.00	K N RAI
1164.00	384120.00	210.00	69300.00	69300.00	K N RAI

7.00	Providing and fixing in position wall panelling at all heights with integral densified calcium silicate panels/tiles of size 595 x 595mm, having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. This same channel is then to be fixed in horizontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound and fiber joint tape roll 50mm wide (90 metre)roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete. With 15 mm thick fully perforated square/butt edge light weight calcium silicate panels / tiles.	970.00	sqm
8.00	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	64.00	each
9.00	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area beyond 3 sq. metres	11.00	each
10.00	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	1698.00	sqm
11.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.Granite stone slab of colour black, Cherry/Ruby red.Area of slab over 0.50 sqm	3.00	sqm
12.00	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	44.00	cum
13.00	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	200.00	sqm
14.00	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.	1213.00	sqm
15.00	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.Two coats.	2057.00	sqm
16.00	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.One coat.	1794.00	sqm
17.00	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).	10.00	cum
18.00	12 mm cement plaster of mix :1:4 (1 cement: 4 coarse sand)	43.00	sqm
19.00	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	25.00	sqm

3104.00	3010880.00	1800.00	1746000.00	1746000.00	K N RAI
485.00	31040.00	400.00	25600.00	25600.00	K N RAI
485.00	5335.00	425.00	4675.00	4675.00	K N RAI
116.00	196968.00	200.00	339600.00	196968.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
5374.00	16122.00	7500.00	22500.00	16122.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
747.00	32868.00	500.00	22000.00	22000.00	K N RAI
970.00	194000.00	450.00	90000.00	90000.00	K N RAI
92.00	111596.00	120.00	145560.00	111596.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
223.00	458711.00	130.00	267410.00	267410.00	K N RAI
160.00	287040.00	130.00	233220.00	233220.00	K N RAI
8730.00	87300.00	7000.00	70000.00	70000.00	K N RAI
747.00	32121.00	400.00	17200.00	17200.00	K N RAI
970.00	24250.00	450.00	11250.00	11250.00	K N RAI

20.00	Refixing of dismantled aluminium partitions and doors including cutting of required size, lifting to all leads, fixing of aluminium sections, partition sheets, glasses all complete as per the directions of Engineer- in - charge.	207.00	sqm
21.00	Providing & fixing Vertical blinds of make Vista 3M, Garware or equivalent of approved fabric, colour, design etc. with supporting system (Roller type) and operating fixture etc. all complete as per the directions of Engineer-in-charge	288.00	sqm
22.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	13.00	cum
23.00	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	20.00	cum
24.00	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm 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. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.Glazed vitrified floor tiles polished finish of size. Size of Tile 600 x 600 mm	612.00	sqm
25.00	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.	35.00	each
26.00	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 8 mm thickness (weight not less than 20 kg/sqm)	48.00	sqm
27.00	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.Pre-laminated particle board with decorative lamination on both sides	17.00	sqm
28.00	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	26.00	each
29.00	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1204.00	sqm

1794.00	371358.00	400.00	82800.00	82800.00	K N RAI
1271.00	366048.00	3000.00	864000.00	366048.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
8342.00	108446.00	7000.00	91000.00	91000.00	K N RAI
8342.00	166840.00	3000.00	60000.00	60000.00	K N RAI
1358.00	831096.00	1000.00	612000.00	612000.00	K N RAI
5723.00	200305.00	2000.00	70000.00	70000.00	K N RAI
1271.00	61008.00	1950.00	93600.00	61008.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
1445.00	24565.00	956.00	16252.00	16252.00	K N RAI
1794.00	46644.00	1200.00	31200.00	31200.00	K N RAI
75.00	90300.00	60.00	72240.00	72240.00	K N RAI

30.00	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	100.00	sqm
31.00	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	4615.00	kg
32.00	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 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. All kinds of soil.	20.00	cum
33.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	7.00	cum
34.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	2.00	cum
35.00	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	100.00	kg
36.00	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.Anodized (AC 15) aluminium tubular handle bar	104.00	each
37.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	10.00	sqm
38.00	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	10.00	sqm
39.00	Dismantling of existing Light fittings,switch & socket, etc. including proper shifting to nearby store location as per required.	365.00	Nos.
40.00	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modulat switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper stranded conductor single core cable etc. as required.(Group C)	150.00	Point
41.00	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit,and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.(Group C)	275.00	Point
42.01	Wiring for circuit/ sub-main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core stranded cable in surface/ recessed Steel conduit as required. i) 2x1.5 sq.mm+ 1x 1.5 sq.mm earth wire.	75.00	Mtr
42.02	2x2.5 sq.mm+ 1x 2.5 sq.mm earth wire.	350.00	Mtr

1445.00	144500.00	1650.00	165000.00	144500.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
136.00	627640.00	85.00	392275.00	392275.00	K N RAI
1513.00	30260.00	200.00	4000.00	4000.00	K N RAI
9215.00	64505.00	9000.00	63000.00	63000.00	K N RAI
8342.00	16684.00	6000.00	12000.00	12000.00	K N RAI
378.00	37800.00	100.00	10000.00	10000.00	K N RAI
1445.00	150280.00	100.00	10400.00	10400.00	K N RAI
1794.00	17940.00	1800.00	18000.00	17940.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
160.00	1600.00	400.00	4000.00	1600.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
97.00	35405.00	200.00	73000.00	35405.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
780.00	117000.00	1823.00	273450.00	117000.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
485.00	133375.00	1094.00	300850.00	133375.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
214.00	16050.00	233.00	17475.00	16050.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
398.00	139300.00	275.00	96250.00	96250.00	K N RAI

42.03	2x4 sq.mm + 1x 4 sq.mm earth wire	180.00	Mtr
42.04	4x2.5 sq.mm + 2 x 2.5 sq.mm earth wire	100.00	Mtr
43.00	Wiring for light/power plug with 2 x 4 sqmm FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit along with 1 No 4 sqmm FRLS PVC insulated copper conductor, single core stranded cable for loop earthing as required.	240.00	Mtr
44.00	Wiring for light/power plug with 4 x 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface. Recessed steel conduit along with 2 nos. 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	80.00	Mtr
45.01	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. i) 3 Module (100mmX75mm)	40.00	Each
45.02	6 Module (200mmX75mm)	20.00	Each
45.03	12 Module (200mmX150mm)	12.00	Each
46.01	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. i) 5/6 A switch	50.00	Each
46.02	15/16 A switch	24.00	Each
46.03	5 pin 5/6 A socket outlet	50.00	Each
46.04	6 pin 15/16 A socket outlet	24.00	Each
47.00	Supply and fixing modular blanking plate on the existing modular plate and switch box excluding modular plate as required.	15.00	Each
48.00	Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	10.00	Each
49.01	Supply and fixing following ways surface/recess mounting, vertical type, 415 volts, TPN MCB distribution board of steel sheet, 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 without MCB's and incomer) as required. Note :- Vewrtical type MCB TPDB is normally used where 3 phase outlets are required. i) 8 way (4+24) Double door	8.00	Each
49.02	12 way (4+36) Double door	4.00	Each
50.01	Supplying and fixing 5 A to 32 A rating, 240/415 V, 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. i) SP	40.00	Each
50.02	DP	24.00	Each
51.01	Supplying and fixing of following rating 240/415 V, 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. i) 40 A, TP	12.00	Each
51.02	63 A, TPN	8.00	Each
51.03	100 A, TPN	4.00	Each
52.01	Supplying and fixing of following rate, four pole TP &N 415 V, Residual current circuit Breaker (RCCB) having sensitivity current up to 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. i) 25 A, Four Pole, 415 V	3.00	Each
52.02	40 A, Four Pole, 415 V	5.00	Each

441.00	79380.00	334.00	60120.00	60120.00	K N RAI
625.00	62500.00	410.00	41000.00	41000.00	K N RAI
398.00	95520.00	433.00	103920.00	95520.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
625.00	50000.00	662.00	52960.00	50000.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
291.00	11640.00	327.00	13080.00	11640.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
398.00	7960.00	402.00	8040.00	7960.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
441.00	5292.00	547.00	6564.00	5292.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
210.00	10500.00	103.00	5150.00	5150.00	K N RAI
291.00	6984.00	156.00	3744.00	3744.00	K N RAI
349.00	17450.00	150.00	7500.00	7500.00	K N RAI
466.00	11184.00	197.00	4728.00	4728.00	K N RAI
111.00	1665.00	40.00	600.00	600.00	K N RAI
4307.00	43070.00	4150.00	41500.00	41500.00	K N RAI
19691.00	157528.00	10200.00	81600.00	81600.00	K N RAI
24929.00	99716.00	13000.00	52000.00	52000.00	K N RAI
815.00	32600.00	260.00	10400.00	10400.00	K N RAI
1862.00	44688.00	660.00	15840.00	15840.00	K N RAI
3026.00	36312.00	1600.00	19200.00	19200.00	K N RAI
3608.00	28864.00	3200.00	25600.00	25600.00	K N RAI
12804.00	51216.00	8200.00	32800.00	32800.00	K N RAI
2910.00	8730.00	3240.00	9720.00	8730.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
3608.00	18040.00	3360.00	16800.00	16800.00	K N RAI

53.00	Supply of 36 W LED recessed type (600 mm x 600 mm) fitting with extruded aluminium luminaire with heat sink installed back side all accesories, lockable holders and including connection etc. as required. As per AAI Specification	180.00	Each
54.00	Supply of 15 W LED recess type downlighter ROUND extruded luminaire with heat sink installed back side, high quality diffuser fix in front frame all accesories, lockable holders and including connection etc. as required. As per AAI Specification	100.00	Each
55.00	Supply of 400 MM, 2100 RPM wall mounting swinging fan suitable for single phase 230 Volt, 50 Hz AC supply complete with motor, capacitor, mounting clamps etc. with all accessories as required complete.	25.00	Each
56.00	Supply of following sizes of 1380 RPM heavy duty exhaust fan suitable for single phase 230 volt, 50 HZ AC supply complete with motor, capacitor, louvers/ shutters and all accussories as required complete. 300 mm, Sweep with louvers.	5.00	Each
57.00	Installation, testing and commissioning of pre-wired LED fitting luminaries etc. of all types (surface/Recessed), complete with all accessories. Directly on ceiling/ wall , including connection with 1.5 sq.mm FRLS PVC insulated, stranded, copper conductor single core cable with flexible conduits and coupler and earthing etc. as required.	280.00	Each
58.00	Installation of Wall mount fan/exhaust fan in the existing opening including making good the damage, connections, testing and commissioning etc. as required. Upto 450mm sweep.	30.00	Each
59.01	Supply of 1.1 KV grade, stranded copper, XLPE insulated, PVC Innersheated, armoured copper Conductor Cable confirming to IS 7098 (Part-I) 1988 amended upto date of following sizes : i) 4C x6 sqmm	100.00	Mtr
59.02	4C x16 sqmm	170.00	Mtr
59.03	3.5C x25 sqmm	150.00	Mtr
59.04	3.5x50 sqmm	240.00	Mtr
59.05	3.5x70 sqmm	320.00	Mtr
60.00	Supply of 1.1 KV grade, stranded Aluminium, XLPE insulated, PVC Innersheated, armoured aluminium Conductor Cable confirming to IS 7098 (Part-I) 1988 amended upto date of following sizes : i) 3.5C x400 sqmm	440.00	Mtr
61.01	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. i) Upto 35 sq. mm (Clamped with 1 mm thick saddle)	180.00	Mtr
61.02	Above 35 Sq. mm and upto 95 Sq. mm (Clamped with 25x3 mm MS flat Clamp)	60.00	Mtr
61.03	Above 185 Sq. mm and upto 400 Sq. mm (Clamped with 40 x3 mm MS flat Clamp)	300.00	Mtr
62.01	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on cable tray as required. i) Upto 35 sq. mm (Clamped with 1 mm thick saddle)	240.00	Mtr
62.02	Above 35 Sq. mm and upto 95 Sq. mm (Clamped with 25x3 mm MS flat Clamp)	400.00	Mtr
62.03	Above 185 Sq. mm and upto 400 Sq. mm (Clamped with 40 x3 mm MS flat Clamp)	80.00	Mtr
63.01	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in existing RCC/Hume/Metal Pipe as required. i) Above 35 Sq. mm and upto 95 Sq. mm	100.00	Mtr
63.02	Above 185 Sq. mm and upto 400 Sq. mm	60.00	Mtr
64.01	Supply and making end termination with brass compression gland i/c proper socketing etc. as reqd for 1.1 KV grade XLPE Copper cond.cable of following sizes. i) 4C x 16 sqmm (28 mm)	16.00	Set
64.02	3.5C x 25 sqmm (28 mm)	20.00	Set
64.03	3.5C x 50 sqmm (35 mm)	16.00	Set

3346.00	602280.00	1560.00	280800.00	280800.00	K N RAI
834.00	83400.00	540.00	54000.00	54000.00	K N RAI
3977.00	99425.00	3000.00	75000.00	75000.00	K N RAI
6208.00	31040.00	1920.00	9600.00	9600.00	K N RAI
70.00	19600.00	786.00	220080.00	19600.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
3783.00	113490.00	5323.00	159690.00	113490.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
572.00	57200.00	750.00	75000.00	57200.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
858.00	145860.00	840.00	142800.00	142800.00	K N RAI
1600.00	240000.00	1200.00	180000.00	180000.00	K N RAI
2473.00	593520.00	2160.00	518400.00	518400.00	K N RAI
3977.00	1272640.00	3120.00	998400.00	998400.00	K N RAI
2037.00	896280.00	1920.00	844800.00	844800.00	K N RAI
600.20	108036.00	60.00	10800.00	10800.00	K N RAI
1301.60	78096.00	114.00	6840.00	6840.00	K N RAI
3504.00	1051200.00	240.00	72000.00	72000.00	K N RAI
600.20	144048.00	60.00	14400.00	14400.00	K N RAI
1301.60	520640.00	120.00	48000.00	48000.00	K N RAI
3504.00	280320.00	240.00	19200.00	19200.00	K N RAI
1445.00	144500.00	72.00	7200.00	7200.00	K N RAI
3504.00	210240.00	168.00	10080.00	10080.00	K N RAI
815.00	13040.00	300.00	4800.00	4800.00	K N RAI
698.00	13960.00	420.00	8400.00	8400.00	K N RAI
2212.00	35392.00	540.00	8640.00	8640.00	K N RAI

64.04	3.5C x 70 sqmm (38 mm)	8.00	Set
65.00	Supply and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. i) 3.5C x 400 sqmm (82 mm)	4.00	Set
66.01	Supply and installing following size of perforated Hot dipped Galvanised Iron cable trays with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from the ceiling with M.S suspenders including bolts & nuts painting suspenders etc as required. i) 150mm width x 50 mm depth x 1.6 mm thickness.	100.00	Mtr
66.02	300mm width x 50 mm depth x 1.6 mm thickness.	50.00	Mtr
67.00	Supply, installation, testing and commissioning of 80 Ltr Storage with minimum 60 LPH cooling capacity Water Cooler with inbuilt UV and RO and other accessories complete as required.	3.00	Nos.
68.00	Supply, installation, testing and commissioning of analogue addressable type control module with base and other accessories.	12.00	Nos.
69.00	Supply, installation, testing and commissioning of flasher sounder unit	6.00	Nos.
70.00	Supply, installation, testing and commissioning of remote response indicators.	26.00	Nos.
71.00	Supply, installation, testing and commissioning of resettable analogue addressable manual call point complete with surface box.	7.00	Nos.
72.00	Supply of 1.5 sq. mm x 2 cores armoured FRLS cable complete with all accessories.	3000.00	Mtrs.
73.00	Supply, installation, testing and commissioning of 2 loop analogue addressable fire alarm control panel complete with loop cards, auto dailer, battery backup etc.	1.00	Nos.
74.00	Supply, installation, testing and commissioning of Short Circuit Isolator complete with all mounting accessories.	13.00	Nos.
75.00	Supply, installation, testing and commissioning of multi-criteria type detector complete with all mounting accessories.	130.00	Nos.
76.00	Supply, installation, testing and commissioning of 4.5 kg CO2 fire extinguisher with ISI mark.	7.00	Nos.
77.00	Dismantling of existing smoke detectors, sprinklers and other accessories complete as required at Sky tower as per site requirement or as directed by Engineer Incharge	1.00	Job
78.00	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories and providing mansory enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/coke and salt as required.	5.00	Set
79.00	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	80.00	Mtr
80.00	Providing and fixing 25 mm X 5 mm GI strip on surface or in recess for connections etc. as required.	120.00	Mtr
81.00	Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing as required.	250.00	Mtr

3259.00	26072.00	720.00	5760.00	5760.00	K N RAI
3608.00	14432.00	3840.00	15360.00	14432.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
921.00	92100.00	420.00	42000.00	42000.00	K N RAI
1280.00	64000.00	600.00	30000.00	30000.00	K N RAI
44135.00	132405.00	55000.00	165000.00	132405.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
74690.00	896280.00	6480.00	77760.00	77760.00	K N RAI
4074.00	24444.00	9000.00	54000.00	24444.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
815.00	21190.00	420.00	10920.00	10920.00	K N RAI
4307.00	30149.00	5400.00	37800.00	30149.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
204.00	612000.00	1824.00	5472000.00	612000.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
109610.00	109610.00	279348.00	279348.00	109610.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
757.00	9841.00	2880.00	37440.00	9841.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
2473.00	321490.00	3828.00	497640.00	321490.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
3259.00	22813.00	9480.00	66360.00	22813.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
29100.00	29100.00	100000.00	100000.00	29100.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
18430.00	92150.00	9000.00	45000.00	45000.00	K N RAI
170.00	13600.00	250.00	20000.00	13600.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
160.00	19200.00	300.00	36000.00	19200.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
58.00	14500.00	96.00	24000.00	14500.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD

82.00	Design, Supply, Installation, Testing & Commissioning of Indoor Type, Floor Mounted compartmentalized cubical type panel board of 415 Volt (Nominal), fabricated out of 2 mm thick MS Sheet, free standing and totally enclosed, IP42, Weather proof / dust proof / vermin proof with top cable entries and cable alleys. The switch board shall be suitable for operation on 3 Phase, 4 wire, 50 Hz AC Supply and with suitable size busbar, earth bar and following switchgear instrumentation and protection devices etc. complete with connections, interconnection, earthing, painting and marking etc. complete as required as per the specifications. Incomer : - a) 630 A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle and spreaders - 02 Nos. b) Multi function meter (Shows Voltage, Current & Frequency) with 3 line LCD Display of size 96 x 96 mm. - 02 Nos. c) Indication Lamp R, Y & B (LED Type) -02 set Automatic transfer switch with bypass switch arrangement for manual operation : a) 630A, 4P, 415V,50 Hz Automatic transfer switch. Outgoing : a) 400A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle - 02 Nos. b) 250A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle - 04 Nos. c) 100A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle - 02 Nos. c) 63A, MCCB, 4P, 25 KA (Icu= 100% lcs) with extended rotary handle - 02 Nos. d) Indication Lamp R & G (LED type) - 10 Set Other : a) 800A Copper busbar, 3 Phase and Neutral b) Necessary CT & PT Control wiring arrangement c) Power terminal and other accessories	1.00	Set
83.00	Design, Supply, Installation, Testing & Commissioning of Indoor Type, Floor Mounted compartmentalized cubical type panel board of 415 Volt (Nominal), fabricated out of 2 mm thick MS Sheet, free standing and totally enclosed, IP42, Weather proof / dust proof / vermin proof with top cable entries and cable alleys. The switch board shall be suitable for operation on 3 Phase, 4 wire, 50 Hz AC Supply and with suitable size busbar, earth bar and following switchgear instrumentation and protection devices etc. complete with connections, interconnection, earthing, painting and marking etc. complete as required as per the specifications. Incomer : - a) 250 A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle and spreaders - 02 Nos. b) Multi function meter (Shows Voltage, Current & Frequency) with 3 line LCD Display of size 96 x 96 mm. - 02 Nos. c) Indication Lamp R, Y & B (LED Type) -02 set Automatic transfer switch with bypass switch arrangement for manual operation : a) 250A, 4P, 415V,50 Hz Automatic transfer switch. Outgoing : a) 125A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle - 02 Nos. b) 100A, MCCB, 4P, 35-37 KA (Icu= 100% lcs) with extended rotary handle - 04 Nos. a) 63A, MCCB, 4P, 25 KA (Icu= 100% lcs) with extended rotary handle - 02 Nos. b) Indication Lamp R & G (LED type) - 08 Set Other : a) 300A Copper busbar, 3 Phase and Neutral b) Necessary CT & PT Control wiring arrangement c) Power terminal and other accessories	1.00	Set

242500.00	242500.00	1000000.00	1000000.00	242500.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
242500.00	242500.00	525000.00	525000.00	242500.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD

84.00	Design, Supply, Installation, Testing & Commissioning of Indoor Type, Floor Mounted compartmentalized cubical type panel board of 415 Volt (Nominal), fabricated out of 2 mm thick MS Sheet, free standing and totally enclosed, IP42, Weather proof / dust proof / vermin proof with top cable entries and cable alleys. The switch board shall be suitable for operation on 3 Phase, 4 wire, 50 Hz AC Supply and with suitable size busbar, earth bar and following switchgear instrumentation and protection devices etc. complete with connections, interconnection, earthing, painting and marking etc. complete as required as per the specifications. Incomer : - a) 200 A, MCCB, 4P, 35-37 KA (Icu= 100% Ics) with extended rotary handle and spreaders - 02 Nos. b) Multi function meter (Shows Voltage, Current & Frequency) with 3 line LCD Display of size 96 x 96 mm. - 02 Nos. c) Indication Lamp R, Y & B (LED Type) -02 set Automatic transfer switch with bypass switch arrangement for manual operation : a) 200A, 4P, 415V,50 Hz Automatic transfer switch. Outgoing : a) 100A, MCCB, 4P, 35-37 KA (Icu= 100% Ics) with extended rotary handle - 04 Nos. b) 63A, MCCB, 4P, 25 KA (Icu= 100% Ics) with extended rotary handle - 02 Nos. c) Indication Lamp R & G (LED type) - 06 Set Other : a) 250A Copper busbar, 3 Phase and Neutral b) Necessary CT & PT Control wiring arrangement c) Power terminal and other accessories	2.00	Set
85.00	Design, Supply, Installation, Testing & Commissioning of Double door mounted on MS angle stand of suitable size, totally enclosed, compartmentalized, cubical, dust, vermin proof and outdoor type panel IP-65 fabricated out of 2 mm thick cold rolled carbon anealed, sheet steel, internally strengthened with angle iron frame work with following incoming and outgoing feeders (fabricated out of 2 mm CRCA Sheet steel) including supplying and mounting including making connections/inter-connections with lugs / glands crimping tools etc complete as required. Incomer : - a) 250 A, MCCB, 4P, 35-37 KA (Icu= 100% Ics) with extended rotary handle and spreaders - 02 Nos. b) Multi function meter (Shows Voltage, Current & Frequency) with 3 line LCD Display of size 96 x 96 mm. - 02 Nos. c) Indication Lamp R, Y & B (LED Type) -02 set Automatic transfer switch with bypass switch arrangement for manual operation : a) 250A, 4P, 415V,50 Hz Automatic transfer switch. Outgoing : a) 125A, MCCB, 4P, 35-37 KA (Icu= 100% Ics) with extended rotary handle - 02 Nos. b) 100A, MCCB, 4P, 35-37 KA (Icu= 100% Ics) with extended rotary handle - 04 Nos. a) 63A, MCCB, 4P, 25 KA (Icu= 100% Ics) with extended rotary handle - 02 Nos. b) Indication Lamp R & G (LED type) - 08 Set Other : a) 300A Copper busbar, 3 Phase and Neutral b) Necessary CT & PT Control wiring arrangement c) Power terminal and other accessories	1.00	Set

194000.00	388000.00	450000.00	900000.00	388000.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD
194000.00	194000.00	550000.00	550000.00	194000.00	MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD

Total in Figures

25749538.00

27957141.00

Lowest Amount Quoted BY: MAHENDRA REALTORS AND INFRASTRUCTURE PVT LTD(25749538.00)