

Government eProcurement System Created By: KATAM CHANDRA SEKHAR Created Date/Time: 09-Nov-2021 02:54 PM Tender Title: AAI TPT AGMC MISC NEW ROOM 2021 22 Tender ID: 2021_AAI_91721_1													
Tender Inviting Authority: AIRPORTS AUTHORITY OF INDIA													
Name of Work: Miscellaneous Civil works at Tirupati Airport S.H: Construction of New Room to Install UPS for Equipment Room Facilities													
TENDER ID: 2021_AAI_91721_1													
SCHEDULE OF WORK / ITEM(S)													
SI.No	Description of Work / Item(s)	No.of Qty	Units	Gunje Chinna(GSTN-37AFMPC2130C1Z3)		ARP ENTERPRISES(GSTN-37ARKEA0649Q1ZV)		Garrison Constructions(GSTN-NA)		NIRMAAN PROJECTS(GSTN-NA)		L1 Amount	L1 Vendor
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
1.00	Civil 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.	800.00	Kg	150.00	120000.00	101.00	80800.00	115.00	92000.00	91.00	72800.00	72800.00	NIRMAAN PROJECTS
2.00	Providing and fixing precoated 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 uard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be ixed 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 russes and including cutting to size and shape wherever required.	117.28	Sqm	345.00	40461.60	620.00	72713.60	670.00	78577.60	580.00	68022.40	40461.60	Gunje Chinna
3.00	Providing and laying Vitrified tiles in different sizes... using double charged vitrified tiles of 600 mm x 600 mm size. (thickness to be specified by the manufacturer) with water absorption less than 0.08 % and confirming to IS : 15622 of approved brand & manufacturer in all colors and shade, in skirting, dado, risers of steps laid on 12 mm thick cement mortar 1:3 (1 Cement : 3 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	32.40	Sqm	560.00	18144.00	965.00	31266.00	1100.00	35640.00	950.00	30780.00	18144.00	Gunje Chinna
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 fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	32.07	Kg	1600.00	51309.12	440.00	14110.01	470.00	15072.05	430.00	13789.33	13789.33	NIRMAAN PROJECTS

5.00	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) Powder coated aluminium (minimum thickness of powder coating 50 micron)	47.92	Kg	2000.00	95836.40	440.00	21084.01	550.00	26355.01	450.00	21563.19	21084.01	ARP ENTERPRIS ES
6.00	Providing and fixing M.S. grills of required pattern in frames of windowsetc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	51.84	Kg	250.00	12960.00	100.00	5184.00	180.00	9331.20	120.00	6220.80	5184.00	ARP ENTERPRIS ES
7.00	Providing and fixing in wall lining 12 mm thick cement sheet conforming to IS, with necessary fixing arrangement and screws etc. complete.	84.88	Sqm	500.00	42440.00	750.00	63660.00	880.00	74694.40	800.00	67904.00	42440.00	Gunje Chinna
8.00	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.	32.40	Sqm	1150.00	37260.00	1200.00	38880.00	1300.00	42120.00	1100.00	35640.00	35640.00	NIRMAAN PROJECTS
9.00	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.	1.00	Each	560.00	560.00	1200.00	1200.00	990.00	990.00	1000.00	1000.00	560.00	Gunje Chinna

10.00	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 5 mm thickness	5.32	Sqm	310.00	1649.20	1100.00	5852.00	1100.00	5852.00	1000.00	5320.00	1649.20	Gunje Chinna
11.00	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.	84.88	Sqm	250.00	21220.00	100.00	8488.00	110.00	9336.80	95.00	8063.60	8063.60	NIRMAAN PROJECTS
12.00	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	84.88	Sqm	265.00	22493.20	110.00	9336.80	100.00	8488.00	100.00	8488.00	8488.00	NIRMAAN PROJECTS, Garrison Constructio ns
13.00	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	84.88	Sqm	210.00	17824.80	35.00	2970.80	60.00	5092.80	40.00	3395.20	2970.80	ARP ENTERPRIS ES
14.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	29.00	Sqm	250.00	7250.00	85.00	2465.00	110.00	3190.00	80.00	2320.00	2320.00	NIRMAAN PROJECTS
15.00	Electrical 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 medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group -A	8.00	Point	500.00	4000.00	450.00	3600.00	650.00	5200.00	500.00	4000.00	3600.00	ARP ENTERPRIS ES
16.00	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	50.00	Mtr.	800.00	40000.00	250.00	12500.00	240.00	12000.00	210.00	10500.00	10500.00	NIRMAAN PROJECTS
17.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a) 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	40.00	Mtr.	750.00	30000.00	250.00	10000.00	220.00	8800.00	200.00	8000.00	8000.00	NIRMAAN PROJECTS
18.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	8.00	Each	1100.00	8800.00	500.00	4000.00	590.00	4720.00	560.00	4480.00	4000.00	ARP ENTERPRIS ES
19.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required	4.00	Each	825.00	3300.00	680.00	2720.00	750.00	3000.00	700.00	2800.00	2720.00	ARP ENTERPRIS ES
20.00	Supply of 34-36 W LED Recess/surface mounted panel fitting(2feet x 2 feet) including driver , with minimum total Lumen value of not less than 3600, suitable to work with 140-270V, 50 HZ AC , CCT of 5700K efficacy of minimum 100 Lm/W, P.F>0.95 and THD of <10% hanged with suitable steel strings (Suspension system included) to the ceiling and meeting the technical specifications as required.	6.00	Each	2000.00	12000.00	3100.00	18600.00	3500.00	21000.00	3150.00	18900.00	12000.00	Gunje Chinna
21.00	Supply of following size XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade confirming to relevant IS 1554 / IS 7098 with upto date amendments. a) 3.5 x 70 sq.mm. Al Armoured XLPE cable	80.00	Meter	450.00	36000.00	300.00	24000.00	400.00	32000.00	280.00	22400.00	22400.00	NIRMAAN PROJECTS

22.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. (a) Above 35 sq. mm and upto 95 sq. mm	40.00	Meter	500.00	20000.00	35.00	1400.00	30.00	1200.00	30.00	1200.00	1200.00	NIRMAAN PROJECTS, Garrison Constructio ns
23.00	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. (a) Above 35sq. mm and upto 95 sq. mm	36.00	Meter	660.00	23760.00	90.00	3240.00	85.00	3060.00	80.00	2880.00	2880.00	NIRMAAN PROJECTS
24.00	Supplying 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. (a) 3½ X 70 sq. mm (38mm)	12.00	Each	500.00	6000.00	350.00	4200.00	270.00	3240.00	300.00	3600.00	3240.00	Garrison Constructio ns
25.00	Supplying 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. (a) 3½ X 35 sq. mm (32mm)	4.00	Each	260.00	1040.00	250.00	1000.00	270.00	1080.00	200.00	800.00	800.00	NIRMAAN PROJECTS
26.00	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 6 way (8 + 18), Double door	2.00	Each	550.00	1100.00	12500.00	25000.00	14000.00	28000.00	12000.00	24000.00	1100.00	Gunje Chinna
27.00	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel having provision for 125A MCCB as incomer, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer MCCB) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 4 way (MCCB as I/c + 12), Double door	1.00	Each	8000.00	8000.00	12000.00	12000.00	11500.00	11500.00	11000.00	11000.00	8000.00	Gunje Chinna
28.00	Supply and fixing of 125A 4P, 25KA MCCB as Outgoing with inbuilt Over Current & Short Circuit protection with Thermal Magnetic Release in the TPN vertical DB with all accessories, providing necessary materials for interconnection, connection, earthing etc. as required.	1.00	Each	5000.00	5000.00	6000.00	6000.00	7500.00	7500.00	6500.00	6500.00	5000.00	Gunje Chinna
29.00	Supply, installation, testing and commissioning of On Load Changeover Switch of capacity 63A, 4-pole, 415V, 50Hz suitable front operated, Manual changeover type in Sheet Steel Enclosure with extended handle switch conforms to IEC 60947-3 upto date as amendment including fixing on existing wall rigidly and complete as required.	1.00	Each	3650.00	3650.00	6500.00	6500.00	6500.00	6500.00	6000.00	6000.00	3650.00	Gunje Chinna
30.00	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps, 10kA "C" curve, SP MCB, 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.	4.00	Each	5000.00	20000.00	900.00	3600.00	1050.00	4200.00	950.00	3800.00	3600.00	ARP ENTERPRIS ES

31.00	Supply of 1.5TR Inverter type Split Air-Conditioner of BEE 5 Star rating Hi-wall split 1.5 Ton non ductible fan coil unit (Indoor Unit), Copper Condensing unit (Outdoor Unit) with fan and High Energy Efficiency Ratio Rotary compressor, with cord less remote controller and works with R410A/R32/R 134A gas, suitable for operation on 1 Phase, 230 +/- 10%V, 50Hz AC supply etc. complete as required. The supply of unit shall include the copper pipings, Interconnecting Power cables between the Indoor and Outdoor Unit as per the standard manufacturer design (i.e. Copper pipings of not less than 3 Mtrs) including drain pipe and initial charge of gas etc. complete as required.	2.00	Each	3200.00	6400.00	35000.00	70000.00	42000.00	84000.00	34000.00	68000.00	6400.00	Gunje Chinna
32.00	Supply of 1.0TR Inverter type Split Air-Conditioner of BEE 5 Star rating Hi-wall split 1.0 Ton non ductible fan coil unit (Indoor Unit), Copper Condensing unit (Outdoor Unit) with fan and High Energy Efficiency Ratio Rotary compressor, with cord less remote controller and works with R410A/R32/R 134A gas, suitable for operation on 1 Phase, 230 +/- 10%V, 50Hz AC supply etc. complete as required. The supply of unit shall include the copper pipings, Interconnecting Power cables between the Indoor and Outdoor Unit as per the standard manufacturer design (i.e. Copper pipings of not less than 3 Mtrs) including drain pipe and initial charge of gas etc. complete as required.	2.00	Each	6000.00	12000.00	28000.00	56000.00	32000.00	64000.00	27000.00	54000.00	12000.00	Gunje Chinna
33.00	Installation, Testing and commissioning of 1.0/1.5 TR wall mounted/Hi-wall type Split Air-Conditioner by making required structures of suitable size MS stand/PCC work as per site requirement i/c balancing of Liquid & Gas, Gas charging the system with R410A/R32/R 134A refrigerent if any extra gas required due to increase in length of Copper piping, including covering the Copper piping (i/c Copper pipe came along with the units) with suitable size casing capping/PVC pipe Lifting / Shifting of Outdoor & Indoor units upto site location etc., complete as required.	4.00	Job	6000.00	24000.00	2000.00	8000.00	3300.00	13200.00	2500.00	10000.00	8000.00	ARP ENTERPRIS ES
34.00	Supply, Laying and connecting of OEM recommended copper refrigerent Piping (Liquid and Gas) with Nitrile Rubber insulation of thickness not less than 13mm and with all other accessories suitable for 1 phase, 1.0/1.5TR split AC including covering the Copper piping with suitable size casing capping/PVC pipe etc. complete as required (Length of Liquid and gas line will be measured as single measurement).	6.00	Meter	2500.00	15000.00	900.00	5400.00	1100.00	6600.00	950.00	5700.00	5400.00	ARP ENTERPRIS ES
35.00	Supply, installation, testing and commissioning of wall mounting type, 4 KVA Capacity, single phase, automatic line voltage stabilizer, suitable operation on 170 volts to 270 volts AC input, 200 volts to 240 volts AC output, single phase, 50Hz AC power supply with built in time delay, high voltage cut off, and low voltage cut off at 145 volts and input/output/trip indications and suitable for application of 1.5 TR Air conditioning unit etc. as required (As per list of approved makes).	4.00	Each	3815.00	15260.00	1000.00	4000.00	1600.00	6400.00	1500.00	6000.00	4000.00	ARP ENTERPRIS ES
36.00	Supply and laying/fixing of ISI marked UPVC pipe of 25mm dia with required bends/connectors on surface/suspension for draining out the water including interconnection of drain pipe etc. complete as required.	10.00	Meter	2525.00	25250.00	120.00	1200.00	220.00	2200.00	150.00	1500.00	1200.00	ARP ENTERPRIS ES
37.00	Supplying and fixing 5 amps to 32 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. Single Pole	12.00	Each	3489.00	41868.00	150.00	1800.00	220.00	2640.00	200.00	2400.00	1800.00	ARP ENTERPRIS ES

38.00	Supplying and fixing 5 amps to 32 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. Triple pole	10.00	Each	4200.00	42000.00	900.00	9000.00	1050.00	10500.00	850.00	8500.00	8500.00	NIRMAAN PROJECTS
39.00	Supplying and fixing 63 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. Triple pole	3.00	Each	4100.00	12300.00	1100.00	3300.00	1550.00	4650.00	1200.00	3600.00	3300.00	ARP ENTERPRISES
40.00	Supplying and fixing 63 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. Four pole	2.00	Each	3000.00	6000.00	1100.00	2200.00	1550.00	3100.00	1200.00	2400.00	2200.00	ARP ENTERPRISES
41.00	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	2.00	Meter	180.00	360.00	4500.00	9000.00	7500.00	15000.00	5000.00	10000.00	360.00	Gunje Chinna
42.00	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	30.00	Meter	1500.00	45000.00	35.00	1050.00	35.00	1050.00	30.00	900.00	900.00	NIRMAAN PROJECTS

Total in Figures

957496.32

667320.22

773079.86

649166.52

Lowest Amount Quoted BY: NIRMAAN PROJECTS(649166.52)

BOQ Summary Details Tender Title: AAI TPT AGMC MISC NEW ROOM 2021 22 Tender ID: 2021_AAI_91721_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	NIRMAAN PROJECTS	649166.52	L1
	2	ARP ENTERPRISES	667320.22	L2
	3	Garrison Constructions	773079.86	L3
	4	Gunje Chinna	957496.32	L4