

Comparative Statement											
Name of work : Construction of Security hut and barriers for double access entry of gate no 8 & 9 at Rajahmundry Airport SH: Civil Works											
Sl.No	Description of Item	Qty	unit	Justified		Dondapati Srinivas		Suman Fabricators and Contractors		CIS Global Infratech Pvt Ltd	
				Rate	amount	Rate	Amount	Rate	Amount	Rate	amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) : 286.00 m in manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	286.00	CUM	325.00 ✓	92950.00	222.00 ✓	63492.00	130.00 ✓	37180.00	245.00 ✓	70070.00
2	Providing and laying in position cement concrete of specified grade: 21.00 excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	21.00	CUM	5370.00 ✓	112770.00	5460.00 ✓	114660.00	4990.00 ✓	104790.00	5800.00 ✓	121800.00
3	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 20 mm nominal size)	46.00	CUM	6929.00 ✓	318734.00	6600.00 ✓	303600.00	6650.00 ✓	305900.00	7500.00 ✓	345000.00
4	Reinforced cement concrete work in beams, suspended floors, roofs: 54.00 having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand/zone-III) : 3 graded stone aggregate 20 mm nominal size).	54.00	CUM	8425.00 ✓	454950.00	6900.00 ✓	372600.00	8650.00 ✓	467100.00	7500.00 ✓	405000.00
5	Reinforced cement concrete work in walls (any thickness), including: attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand/zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	10.00	CUM	8062.00 ✓	80620.00	7200.00 ✓	72000.00	9000.00 ✓	90000.00	9000.00 ✓	90000.00

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6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size)	14.00	CUM	5128.00 ✓	71792.00	4900.00 ✓	68600.00	4850.00 ✓	67900.00	5600.00 ✓	78400.00
7	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	219.00	CUM	152.00 ✓	33288.00	240.00 ✓	52560.00	150.00 ✓	32850.00	180.00 ✓	39420.00
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	40.00	CUM	1340.00 ✓	53600.00	960.00 ✓	38400.00	1953.00 ✓	78120.00	1800.00 ✓	72000.00
9	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20mm nominal size).	26.00	SQM	369.00 ✓	9594.00	450.00 ✓	11700.00	400.00 ✓	10400.00	420.00 ✓	10920.00
10	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone - III) : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	71.00	SQM	483.00 ✓	34293.00	600.00 ✓	42600.00	275.00 ✓	19525.00	610.00 ✓	43310.00
11	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns, etc. for mass concrete	201.00	SQM	228.00 ✓	45828.00	510.00 ✓	102510.00	285.00 ✓	57285.00	290.00 ✓	58290.00
12	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	158.00	SQM	438.00 ✓	69204.00	555.00 ✓	87690.00	510.00 ✓	80580.00	570.00 ✓	90060.00
13	Centering and shuttering including strutting, propping etc. and removal of form for :Columns, Piers, Abutments, Posts and Struts	70.00	SQM	563.00 ✓	39410.00	585.00 ✓	40950.00	650.00 ✓	45500.00	750.00 ✓	52500.00
14	Centering and shuttering including strutting, propping etc. and removal of form for :Weather shade, Chajjas, corbels etc., including edges	30.00	SQM	595.00 ✓	17850.00	585.00 ✓	17550.00	685.00 ✓	20550.00	600.00 ✓	18000.00

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15	Centering and shuttering including strutting, propping etc. and removal of form for :Suspended floors, roofs, landings, balconies and access platform	159.00	SQM	591.00 ✓	93969.00	585.00 ✓	93015.00	750.00 ✓	119250.00	700.00 ✓	111300.00
16	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.Thermo-Mechanically Treated bars of grade Fe-500D or more.	4134.00	KG	104.00 ✓	429936.00	105.00 ✓	434070.00	84.00 ✓	347256.00	90.00 ✓	372060.00
17	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.Thermo-Mechanically Treated bars of grade Fe-500D or more.	5675.00	KG	104.00 ✓	590200.00	105.00 ✓	595875.00	84.00 ✓	476700.00	90.00 ✓	510750.00
18	Brickwork with common burnt clay F.P.S (non modular) bricks of class designation 3.5 in superstructure above plinth level upto floor V level in all shapes and sizes in : cement mortar 1:6 (1 cement: 6 coarse sand)	99.00	cum	6838.73 ✓	677034.27	6630.00 ✓	656370.00	7591.00 ✓	751509.00	6000.00 ✓	594000.00
19	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)	94.00	KG	582.00 ✓	54708.00	510.00 ✓	47940.00	423.00 ✓	39762.00	450.00 ✓	42300.00

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20	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	104.00	KG	656.00 ✓	68224.00	510.00 ✓	53040.00	513.00 ✓	53352.00	450.00 ✓	46800.00
21	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 (weight not less than 12.50 kg/ sqm)	32.00	SQM	1101.00 ✓	35232.00	1320.00 ✓	42240.00	1297.00 ✓	41504.00	1250.00 ✓	40000.00
22	Providing and fixing 12 mm thick pre-laminated particle board flat, pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium 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.	5.00	SQM	752.00 ✓	3760.00	1050.00 ✓	5250.00	750.00 ✓	3750.00	950.00 ✓	4750.00
23	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	457.00	SQM	227.00 ✓	103739.00	366.00 ✓	167262.00	293.00 ✓	133901.00	310.00 ✓	141670.00
24	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	781.00	SQM	197.00 ✓	153857.00	351.00 ✓	274131.00	254.00 ✓	198374.00	280.00 ✓	218680.00
25	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	328.00	SQM	167.00 ✓	54776.00	330.00 ✓	108240.00	228.00 ✓	74784.00	240.00 ✓	78720.00

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26	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 500x500 mm	132.00	SQM	1192.00	157344.00	1185.00	156420.00	1268.00	167376.00	1290.00	170280.00
27	Providing and fixing tiled 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 x 1.6 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. 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, width 511 mm, zinc coated.	132.00	SQM	1224.00	161568.00	1230.00	162360.00	1505.00	198660.00	1200.00	158400.00
28	Providing and fixing Brass 100mm mortice latch and lock with 6 levers, 400 without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	4.00	EACH	527.00	2108.00	1000.00	4000.00	350.00	1400.00	700.00	2800.00

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29	Providing and fixing aluminium tower 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 necessary screws etc. complete :150x10 mm	4.00	EACH	68.00 ✓	272.00	100.00 ✓	400.00	155.00 ✓	620.00	75.00 ✓	300.00
30	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	785.00	SQM	54.00 ✓	42390.00	132.00 ✓	103620.00	161.50 ✓	126777.50	80.00 ✓	62800.00
31	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	781.00	SQM	165.00 ✓	128865.00	132.00 ✓	103092.00	165.00 ✓	128865.00	165.00 ✓	128865.00
32	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	785.00	SQM	52.00 ✓	40820.00	123.00 ✓	96555.00	57.00 ✓	44745.00	65.00 ✓	51025.00
33	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.	4.00	EACH	1617.00 ✓	6468.00	105.00 ✓	420.00	2250.00 ✓	9000.00	820.00 ✓	3280.00
34	Brickwork with common burnt clay F.P.S (non modular) bricks of class designation 3.5 in foundation and plinth in all shapes and sizes in : cement mortar 1:6 (1 cement: 6 coarse sand)	14.00	cum	5824.77 ✓	81546.78	6630.00 ✓	92820.00	5900.00 ✓	82600.00	6500.00 ✓	91000.00
35	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement: 4 fine sand): Raised Band	432.00	cm per metre	5.00 ✓	2160.00	78.00 ✓	33696.00	7.10 ✓	3067.20	8.00 ✓	3456.00
36	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.	525.00	KG	86.00 ✓	45150.00	123.00 ✓	64575.00	95.00 ✓	49875.00	85.00 ✓	44625.00

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37	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work	35.00	SQM	99.00	3465.00	150.00	5250.00	80.00	2800.00	132.00	4620.00
38	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	98.00	METRE	276.00	27048.00	330.00	32340.00	320.00	31360.00	300.00	29400.00
39	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1166.00	KG	110.00	128260.00	114.00	132924.00	125.00	145750.00	145.00	169070.00

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40	Providing and fixing on wall face unplasticised Rigid PVC rain waterpipes conforming to IS : 13592 Type A, including jointing with sealing conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.75 mm diameter	20.00	METRE	192.00 ✓	3840.00	420.00 ✓	8400.00	380.00 ✓	7600.00	215.00 ✓	4300.00
41	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.	302.00	SQM	170.00 ✓	51340.00	114.00 ✓	34428.00	115.00 ✓	34730.00	50.00 ✓	15100.00
42	Providing and fixing in position pre-moulded joint filler in expansion joints.	1371.00	per cm depth per cm width per metre length	3.00 ✓	4113.00	15.00 ✓	20565.00	8.00 ✓	10968.00	25.00 ✓	34275.00
43	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	10.00	CUM	749.00 ✓	7490.00	960.00 ✓	9600.00	1073.00 ✓	10730.00	1225.00 ✓	12250.00
44	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	19.00	CUM	1025.00 ✓	19475.00	1230.00 ✓	23370.00	1469.00 ✓	27911.00	1650.00 ✓	31350.00
45	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:Channels, angles, tees and flats	243.00	KG	1.00 ✓	243.00	6.00 ✓	1458.00	4.50 ✓	1093.50	2.00 ✓	486.00
46	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	9.00	KG	19.00 ✓	171.00	60.00 ✓	540.00	4.50 ✓	40.50	30.00 ✓	270.00

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47	Design of all works from foundation to finishing stage including but not limited to Soil testing, detailed design of foundation work, structural design, design of roofing system, façade design etc on the basis of inputs provided by AAI, from a reputed structural designer as approved by Engineering-In-Charge. The structural designer shall ensure that the structural drawing should matching with the architectural drawing, any discrepancies between architectural drawing, structural drawing and service drawings etc shall be resolved and corresponding final drawings duly stamped "Good for construction" be issued. The structural drawings shall got proof checked/vetted from the independent institutes either any Indian Institute of Technology or National Institute of Technology or Government Engineering College and agency shall submit the design and drawings for final approval of AAI. This item includes all cost of Soil testing, structural design, proof checking/vetting of design etc.	1	Job	46144.55	46144.5505	6000	6000.00	75000	75000.00	70000.00	70000.00
Justified Cost =				A	4800417.59		4959178.00		4818790.70		4743752.00
							3.31		0.38		-1.18
							% above		% above		% below
							L3		L2		L1

[Signature]
Manager (Engg-Civil)
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