Summary of Bill of Quantities (Civil Works)

ROYAL AUDIT AUTHORITY TRAINING CENTRE, TSIRANG

Royal Audit Authority

Sl No	Description	No of items	No of A4 printed pages (Landscape)	Amount Qouted
1	Main Building	84	10	
2	General Hostels	59	7	
3	Self Catering Hostels	62	8	
4	Executive Hostels	53	6	
5	Gymnasium	81	9	
6	Generator Room	44	5	
7	Caretaker's Room	38	4	
	TOTAL	**421**	**49**	

In Words Ngultrum……

Remarks

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Name of work:RAA Training Centre
Sub Title : Main Building (1 No.)

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
	EW.01	**EARTH WORK**			
1	EW.01.01	Earthwork in excavation over areas by Dozer/Excavator including levelling and dressing, excluding the cost of major break down and transportation of surplus earth/soil within a lead of 5km from the construction site in all kinds of soil	2,788.00	cu.m	
2	EW.01.02	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, depth >300mm including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift in all kinds of soil	1,298.78	cu.m	
3	EW.01.03	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	436.98	cu.m	
4	EW.01.04	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	246.11	cu.m	
	CW.02	**PLAIN CONCRETE WORKS (PCC)**			
5	CW.02.01	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size) excluding the cost of centering and shuttering - bases of RCC footings	63.39	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
6	CW.02.02	Providing and laying in position plain cement concrete 1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size) excluding the cost of centering and shuttering - under Wall foundation pads	7.55	cu.m	

RC.03 REINFORCED CONCRETE (RCC)

7	RC.03.01	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - Footing, bases of columns etc	444.05	cu.m	
8	RC.03.02	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement- in columns, pillars, posts & struts.	227.74	cu.m	
9	RC.03.03	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement -in beams, lintels, bands, plain window sills.	209.50	cu.m	
10	RC.03.04	Providing & laying in position RCC work 1:1.5:3 (1 cement :1.5 sand :3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinf-in slabs, suspended floor, roofs having slope upto 15o, balconies and chajjas.	477.49	cu.m	
11	RC.03.05	Providing & laying in position reinforced cement concrete work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excluding the cost of centering, shuttering and reinforcement-in staircase including landing & steps.	19.36	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
12	RC.03.06	Providing & laying in position reinforced cement concrete work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) in Tse chu khanim at all floor levels incl. f/work, finish with 6mm thk plaster on exp. surface with CM 1:3, excl. reinf.& decorative painting cost as per std. dgn. (Meas. to be along the cornice&wall junction).	61.65	m	
13	RC.03.07	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete.	212,711.90	kg	
14	RC.03.08	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - in Foundation pads etc.	477.63	sq.m	
15	RC.03.09	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in columns, pillars, post, struts etc.	1,535.36	sq.m	
16	RC.03.10	Providing & fixing centering and shuttering upto floor five level level incl. strutting, propping etc. and removal of formwork in lintel, beams, girders, plain window sills etc	1,877.58	sq.m	
17	RC.03.11	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in - slabs, suspended floor, roof, landing, shelves and their supports, balconies, chajjas etc	2,404.99	sq.m	
18	RC.03.12	Providing & fixing centering and shuttering upto floor five level (formwork), including strutting, propping etc. and removal of formwork - Staircase including steps and excluding landing.	135.59	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
19	RC.03.13	Bhutan type Traditional Cornices in R.C.C 1:1.5:3, 20 mm aggregate including cost of formwork including finishing with 6mm thick plaster on the exposed surface with cement mortar 1:3, excluding einforcement & decorative painting cost as per standard design (Measurement to be taken along the cornice and wall junction)-Multi-Storeyed building.. at all middle floor levels (including the cost of phana)	86.00	m	
	SM.04	**STONE MASONRY WORK**			
20	SM.04.01	Providing and laying Hand packed stone filling or soling with stones under Footings and wall foundations etc	110.19	cu.m	
21	SM.04.02	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:4	236.62	cu.m	
	BW.05	**BRICK MASONRY WORK**			
22	BW.05.01	Providing & laying Second-Class Brick work in Superstructure above plinth level to all floor levels- In cement mortar 1:4	452.13	cu.m	
23	BW.05.02	Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure to all floor levels - In cement mortar 1:4	1,060.46	sq.m	
24	BW.05.03	Providing & laying pointing on brickwork with cement mortar 1:3 - Ruled pointing	232.94	sq.m	
	FL.06	**FLOORING WORKS**			
25	FL.06.01	Providing and laying Hand packed stone filling or soling with stones - under floors	164.07	cu.m	
26	FL.06.02	Providing &laying sand bedding, including watering, ramming, dressing complete.	41.02	cu.m	
27	FL.06.03	Providing & laying moisture barrier using plastic sheeting underlay - 200 micro-metre	820.37	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
28	FL.06.04	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	82.04	cu.m	
29	FL.06.05	Providing & fixing Marbonite tiles flooring 600 x 600 mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.	2,522.44	sq.m	
30	FL.06.06	Providing & fixing Anti skid ceramic titles 300x300mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.: - in toilet floors and skirting	599.68	sq.m	
31	FL.06.07	Providing & fixing 20mm thick Granite flooring laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles: - in verandah, corridors, staircase etc	118.90	sq.m	
32	FL.06.08	Providing & fixing skirting in Marbonite tiles with laticrete or special adhesive, finishing the joints with similar colour of the titles	171.06	sq.m	
	WW.07	**WOOD WORKS**			
33	WW.07.01/a	Providing & fixing 15mm Cement Fibre Board false ceiling (595x595mm)of Everest or equivalent make with powder coated exposed GI grid suspension system including painting & all accessories complete as required as per manufacturer's direction- in all general rooms.Designer FCB & E-2430 Grid.	2,386.09	sq.m	
34	WW.07.01/b	Providing & fixing 6mm Designer Fibre Board false ceiling (595x595mm) of Everest or equivalent make with powder coated exposed GI grid suspension system including painting & all accessories complete as required as per manufacturer's direction- in Conference hall.	283.67	sq.m	
35	WW.07.02	Providing & fixing 100mm thick glasswool insulation for conference hall ceiling including 50 micron PVC sheet.	283.67	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
36	WW.07.03	Providing & fixing 100mm thick teak parquet (wood blocks) flooring for conference hall	283.67	sq.m	
37	WW.07.04	Providing & fixing accoustic wall with 75mm thick glass wool insulation, 50 micron PVC sheet, jute rage lining and blue pine strips beading as per drawings.	427.74	sq.m	
38	WW.07.05	Providing & fixing to frames for eaves ceiling in blue pine/mixed conifer lining, tongued and grooved, including necessary fixtures, wooden plugs and priming coat on unexposed surfaces (excluding cost of frames) - 20 mm thick	474.90	sq.m	
39	WW.07.06	Providing & fixing Mixed Conifer (undressed) in ceiling & wall-frames etc	7.34	cu.m	
40	WW.07.07	Providing & fixing Alstrong Aluminium (or equivalent) Composite panel below Rabseys and Windows as per drawings complete(AL-07) + Atrinm ceiling & Entrance Porch Ceiling(AL-24)	287.68	sq.m	
41	WW.07.08	Providing & fixing 100mm thick teak parquet (wood blocks) skirting for conference hall	68.10	sq.m	
	SW.08	**STEEL WORK**			
42	SW.08.01	Providing & fixing Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	29,991.30	kg	
43	SW.08.02	Providing, making and fixing M.S. straps, flats, sole plates etc.	1,334.65	kg	
44	SW.08.03	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	563.16	kg	
45	SW.08.04	Providing, fabricating & fixing 1mm GI sheet false Dingri welded with U shaped MS strap as per drawing including cutting, hoisting, fixing and appl. priming coat of red lead paint	6,607.48	kg	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
46	SW.08.05	Providing, fabricating & fxing in position staircase Railing in stainless steel pipe including base plates and required accessories as per drawing complete.	30.18	m	
	RF.09	**ROOFING WORKS**			
47	RF.09.01	Providing & fixing trapezoidal Pre painted Galvalume (PPGI-120 GSM-550MPA) sheets with metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	1,354.48	sq.m	
48	RF.09.02	Providing & fixing trapezoidal Pre painted Galvalume Pre painted (PPGI--120GSM-350MPA) 600mm ridges or hips with Metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	167.61	m	
49	RF.09.03	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	237.78	m	
	PL.10	**PLASTER**			
50	PL.10.01	Providing & laying 6mm cement plaster (in ceilings) - C.M 1:4	2,530.60	sq.m	
51	PL.10.02	Providing & applying 2-3mm putty on walls & ceilings, finishing with smooth surface.	4,579.82	sq.m	
52	PL.10.03	Providing & laying 15mm cement plaster on rough side of single or half-brick wall in cement mortar 1:3 on (external walls)	526.20	sq.m	
	PT.11	**PAINTING WORK**			
53	PT.11.01	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	2,530.60	sq.m	
54	PT.11.02	Providing and applying finishing coats- with Water-Proof Cement Paint - New work, three coats	759.15	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
55	PT.11.03	Providing & applying one coat of primers - Wood work - pink primer	534.34	sq.m	
56	PT.11.04	Providing and applying finishing coats - Synthetic enamel, for steel & wood work, two coats on new work	534.34	sq.m	
57	PT.11.05	Providing and applying wood stains, varnishes & polishes - Synthetic varnish (clear) - two coats, including coat of wood filler on new work	1,070.77	sq.m	
58	PT.11.06	Providing, preparing and applying Dangtshon washable painting to cornices and phana - Rab	79.78	sq.m	
59	PT.11.07	Providing and applying plastic emulsion paint, for cement, masonry, plaster, two coats on new work	4,579.82	sq.m	
	DR.12	**DRAINAGE**			
60	DR.12.01	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	395.90	sq.m	
61	DR.12.02	Constructing IInd class brick mas. drain in CM1:4 incl. e/w in exc. 100mm thk concrete bed 1:5:10, 40mm agg. & 25mm thk CC1:2:4,12 mm agg. for filling haunches incl. 12mm plastering 1:4 with a coat of neat cement & disposal of surplus earth etc.-250mmx300mm depth	183.36	m	
	DW.13	**DOOR & WINDOW COMPONENTS**			
62	DW.13.W-A	Providing & fixing Window type W-A as per drawing including all accessories, cornices and PCC sill - Complete	8.00	each	
63	DW.13.W-B	Providing & fixing Window type W-B as per drawing including all accessories, cornices and PCC sill - Complete	1.00	each	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
64	DW.13.W-C	Providing & fixing Window type W-C as per drawing including all accessories, cornices and PCC sill - Complete	20.00	each	
65	DW.13.W-D	Providing & fixing Window type W-D as per drawing including all accessories, cornices and PCC sill - Complete	12.00	each	
66	DW.13-W-E	Providing & fixing Window type W-E as per drawing including all accessories, cornices and PCC sill - Complete	1.00	each	
67	DW.13.W-F	Providing & fixing Window type W-F as per drawing including all accessories, cornices and PCC sill - Complete	2.00	each	
68	DW.13.W-G	Providing & fixing Window type W-G as per drawing including all accessories, cornices and PCC sill - Complete	3.00	each	
69	DW.13.W-H	Providing & fixing Window type W-H as per drawing including all accessories, cornices and PCC sill - Complete	1.00	each	
70	DW.13.W-I	Providing & fixing Window type W-I as per drawing including all accessories, cornices and PCC sill - Complete	2.00	each	
71	DW.13.WR-P	Providing & fixing Window type WR-P as per drawing including all accessories, cornices and PCC sill - Complete	1.00	each	
72	DW.13.KW-J	Providing & fixing Window type KW-J as per drawing including all accessories, cornices and PCC sill - Complete	3.00	each	
73	DW.13.V-K	Providing & fixing Ventilation type V-Kas per drawing including all accessories, cornices and PCC sill - Complete	27.00	each	
74	DW.13.V-L	Providing & fixing Ventilation type V-L as per drawing including all accessories, cornices and PCC sill - Complete	3.00	each	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
75	DW.13.CW-M	Providing & fixing Carten wall type CW-M as per drawing No.07-E/07- including all accessories, RCC lintel and PCC sill- Complete	2.00	each	
76	DW.13.CW-N	Providing & fixing Carten wall type CW-N as per drawing No.07-E/07- Fincluding all accessories, RCC lintel and PCC sill- Complete	2.00	each	
77	DW.13.CW-O	Providing & fixing Carten wall type CW-O as per drawing No.07-E/07-F including all accessories, RCC lintel and PCC sill - Complete	3.00	each	
78	DW.13.D1	Providing & fixing Door type D1 in Aluminium section as per drawing including all accessories and RCC lintel - Complete.	1.00	each	
79	DW.13.D2	Providing & fixing Door type D2 as per drawing including all accessories and RCC lintel - Complete.	22.00	each	
80	DW.13.D3	Providing & fixing Door type D3 as per drawing including all accessories and RCC lintel - Complete.	16.00	each	
81	DW.13.D4	Providing & fixing Door type D4 as per drawing including all accessories and RCC lintel - Complete.	28.00	each	
82	DW.13.D5	Providing & fixing Door type D5 as per drawing including all accessories and RCC lintel - Complete.	6.00	each	
83	DW.13.D6	Providing & fixing Door type D6 in Aluminium section as per drawing including all accessories and RCC lintel - Complete.	3.00	each	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
84	DW.13.D7	Providing & fixing Door type D7 in Aluminium section as per drawing including all accessories and lintel - Complete.	8.00	each	

Total for Main Building (Nu.)

In Words: .

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Amount (Nu)

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Bill of Quantities

ROYAL AUDIT AUTHORITY TRAINING CENTRE, TSIRANG

Royal Audit Authority

Name of work:RAA Training Centre
Sub Title : General Hostel A&B-2Nos

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
	EW.01	**EARTH WORK**			
1	EW.01.01	Earthwork in excavation over areas by Dozer/Excavator including levelling and dressing, excluding the cost of major break down and transportation of surplus earth/soil within a lead of 5km from the construction site in all kinds of soil	612.00	cu.m	
2	EW.01.02	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, depth >300mm including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift in all kinds of soil	340.80	cu.m	
3	EW.01.03	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	155.14	cu.m	
4	EW.01.04	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	92.74	cu.m	
	CW.02	**PLAIN CONCRETE WORKS (PCC)**			
5	CW.02.01	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - bases of RCC footings & wall foundation	22.89	cu.m	
	RC.03	**REINFORCED CONCRETE (RCC)**			
6	RC.03.01	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - Footing, bases of columns etc	69.96	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
7	RC.03.02	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement- in columns, pillars, posts & struts.	49.83	cu.m	
8	RC.03.03	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement -in beams, lintels, bands, plain window sills.	56.09	cu.m	
9	RC.03.04	Providing & laying in position RCC work 1:1.5:3 (1 cement :1.5 sand :3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinf-in slabs, suspended floor, roofs having slope upto 15o, balconies and chajjas.	118.90	cu.m	
10	RC.03.05	Providing & laying in position reinforced cement concrete work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excluding the cost of centering, shuttering and reinforcement-in staircase including landing & steps.	3.26	cu.m	
11	RC.03.06	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete.	46,952.20	kg	
12	RC.03.07	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - in Foundation pads etc.	110.60	sq.m	
13	RC.03.08	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in columns, pillars, post, struts etc.	530.80	sq.m	
14	RC.03.09	Providing & fixing centering and shuttering upto floor five level level incl. strutting, propping etc. and removal of formwork in lintel, beams, girders, plain window sills etc	546.22	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
15	RC.03.10	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in - slabs, suspended floor, roof, landing, shelves and their supports, balconies, chajjas etc	727.65	sq.m	
16	RC.03.11	Providing & fixing centering and shuttering upto floor five level (formwork), including strutting, propping etc. and removal of formwork - Staircase icluding steps and landing.	26.05	sq.m	
	SM.04	**STONE MASONRY WORK**			
17	SM.04.01	Providing and laying Hand packed stone filling or soling with stones under Footings and wall foundations etc	34.33	cu.m	
18	SM.04.02	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:4	58.49	cu.m	
19	SM.04.03	Providing & laying Coursed Rubble Masonry with hard stone hammer-dressed in super structure above plinth level - In cement mortar 1:4	27.83	cu.m	
	BW.05	**BRICK MASONRY WORK**			
20	BW.05.01	Providing & laying Second-Class Brick work in Superstructure above plinth level to all floor levels- In cement mortar 1:4	185.39	cu.m	
21	BW.05.02	Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure to all floor levels - In cement mortar 1:4	301.07	sq.m	
	FL.06	**FLOORING WORKS**			
22	FL.06.01	Providing and laying Hand packed stone filling or soling with stones - under floors	61.83	cu.m	
23	FL.06.02	Providing &laying sand bedding, including watering, ramming, dressing complete.	15.46	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
24	FL.06.03	Providing & laying moisture barrier using plastic sheeting underlay - 200 micro-metre	309.12	sq.m	
25	FL.06.04	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	30.91	cu.m	
26	FL.06.05	Providing & fixing Marbonite tiles flooring 600 x 600 mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.	445.03	sq.m	
27	FL.06.06	Providing & fixing Anti skid ceramic titles 300x300mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.: - in toilet floors and skirting	336.30	sq.m	
28	FL.06.07	Providing & fixing 20mm thick Granite flooring laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles: - in verandah, corridors, staircase etc	144.41	sq.m	
29	FL.06.08	Providing & fixing skirting in Marbonite titles with laticrete or special adhesive finishing the joints with similar colour of the title.	87.41	sq.m	
	WW.07	**WOOD WORKS**			
30	WW.07.01	Providing & fixing to frames for eaves ceiling in blue pine/mixed conifer lining, tongued and grooved, including necessary fixtures, wooden plugs and priming coat on unexposed surfaces (excluding cost of frames) - 20 mm thick	160.53	sq.m	
31	WW.07.02	Providing & fixing Mixed Conifer (undressed) in ceiling & wall-frames etc	1.38	cu.m	
	SW.08	**STEEL WORK**			
32	SW.08.01	Providing & fixing Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	8,102.59	kg	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
33	SW.08.02	Providing, making and fixing M.S. straps, flats, sole plates etc.	735.83	kg	
34	SW.08.03	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	314.19	kg	
35	SW.08.04	Providing, fabricating & fixing 1mm GI sheet false Dingri welded with U shaped MS strap as per drawing including cutting, hoisting, fixing and appl. priming coat of red lead paint	4,574.41	kg	
36	SW.08.05	Providing, fabricating & fxing in position staircase Railing in stainless steel pipe including base plates and required accessories as per drawing complete.	88.27	m	
	RF.09	**ROOFING WORKS**			
37	RF.09.01	Providing & fixing trapezoidal Pre painted Galvalume (PPGI-120 GSM-550MPA) sheets with metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	616.64	sq.m	
38	RF.09.02	Providing & fixing trapezoidal Pre painted Galvalume Pre painted (PPGI--120GSM-350MPA) 600mm ridges or hips with Metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	123.32	m	
39	RF.09.03	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	119.32	m	
	PL.10	**PLASTER**			
40	PL.10.01	Providing & laying 6mm cement plaster (in ceilings) - C.M 1:4	665.68	sq.m	
41	PL.10.02	Providing & applying 2-3mm putty on walls & ceilings, finishing with smooth surface.	2,859.30	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
42	PL.10.03	Providing & laying 15mm cement plaster on rough side of single or half-brick wall in cement mortar 1:3 on (external walls)	365.29	sq.m	
	PT.11	**PAINTING WORK**			
43	PT.11.01	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	665.68	sq.m	
44	PT.11.02	Providing and applying finishing coats- with Water-Proof Cement Paint - New work, three coats	365.29	sq.m	
45	PT.11.03	Providing & applying one coat of primers - Wood work - pink primer	192.42	sq.m	
46	PT.11.04	Providing and applying finishing coats - Synthetic enamel, for steel & wood work, two coats on new work	192.42	sq.m	
47	PT.11.05	Providing and applying wood stains, varnishes & polishes - Synthetic varnish (clear) - two coats, including coat of wood filler on new work	460.05	sq.m	
48	PT.11.06	Providing, preparing and applying Dangtshon washable painting to cornices - Ding	23.40	sq.m	
49	PT.11.07	Providing and applying plastic emulsion paint, for cement, masonry, plaster, two coats on new work	2,438.72	sq.m	
	DR.12	**DRAINAGE**			
50	DR.12.01	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	160.53	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
51	DR.12.02	IInd class brick mas. drain in CM1:4 incl. e/w in exc. 100mm thk concrete bed 1:5:10, 40mm agg. & 25mm thk CC1:2:4,12 mm agg. for filling haunches incl. 12mm plastering 1:4 with a coat of neat cement & disposal of surplus earth etc.-250mmx300mm depth	128.27	m	
	DW.13	**DOOR & WINDOW COMPONENTS**			
52	DW.13.SD	Providing & fixing Window type SD as per drawing including all accessories, cornices and PCC sill - Complete	20.00	each	
53	DW.13.W1	Providing & fixing Window type W1 as per drawing including all accessories, cornices and PCC sill - Complete	4.00	each	
54	DW.13.W2	Providing & fixing Window type W2 as per drawing including all accessories, cornices and PCC sill - Complete	4.00	each	
55	DW.13.V1	Providing & fixing Window type V1 as per drawing including all accessories, cornices and PCC sill - Complete	20.00	each	
56	DW.13.D1	Providing & fixing Door type D1 as per drawing including all accessories and RCC lintel - Complete	20.00	each	
57	DW.13.D3	Providing & fixing Door type D3 as per drawing including all accessories and RCC lintel - Complete.	20.00	each	
58	DW.13.TS1	Providing & fixing Timber slats type TS1 as per drawing including all accessories, RCC lintel and PCC sill- Complete.	4.00	each	
59	DW.13.TS2	Providing & fixing Timber slats type TS2 as per drawing including all accessories, RCC lintel and PCC sill - Complete.	2.00	each	
	Sub-Total for 1 No General Hostel (Nu.)		**1.00**	**No**	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
		Total for 2 Nos General Hostels (Nu.)	**2.00**	**Nos**	

In Words: .....

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Name of work:RAA Training Centre

Sub Title : Self Catering Hostel C&D-2Nos

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
	EW.01	**EARTH WORK**			
1	EW.01.01	Earthwork in excavation over areas by Dozer/Excavator including levelling and dressing, excluding the cost of major break down and transportation of surplus earth/soil within a lead of 5km from the construction site in all kinds of soil	612.00	cu.m	
2	EW.01.02	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, depth >300mm including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift in all kinds of soil	274.71	cu.m	
3	EW.01.03	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	130.07	cu.m	
4	EW.01.04	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	50.07	cu.m	
	CW.02	**PLAIN CONCRETE WORKS (PCC)**			
5	CW.02.01	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size) excluding the cost of centering and shuttering - bases of RCC footings	0.11	cu.m	
6	CW.02.02	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - bases of RCC footings & wall foundation	17.50	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
	RC.03	**REINFORCED CONCRETE (RCC)**			
7	RC.03.01	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - Footing, bases of columns etc	58.49	cu.m	
8	RC.03.02	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement- in columns, pillars, posts & struts.	40.60	cu.m	
9	RC.03.03	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement -in beams, lintels, bands, plain window sills.	30.23	cu.m	
10	RC.03.04	Providing & laying in position RCC work 1:1.5:3 (1 cement :1.5 sand :3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinf-in slabs, suspended floor, roofs having slope upto 15o, balconies and chajjas.	58.99	cu.m	
11	RC.03.05	Providing & laying in position reinforced cement concrete work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excluding the cost of centering, shuttering and reinforcement-in staircase including landing & steps.	2.79	cu.m	
12	RC.03.06	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete.	30,588.97	kg	
13	RC.03.07	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - in Foundation pads etc.	115.06	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
14	RC.03.08	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in columns, pillars, post, struts etc.	433.50	sq.m	
15	RC.03.09	Providing & fixing centering and shuttering upto floor five level level incl. strutting, propping etc. and removal of formwork in lintel, beams, girders, plain window sills etc	314.95	sq.m	
16	RC.03.10	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in - slabs, suspended floor, roof, landing, shelves and their supports, balconies, chajjas etc	393.24	sq.m	
17	RC.03.11	Providing & fixing centering and shuttering upto floor five level (formwork), including strutting, propping etc. and removal of formwork - Staircase icluding steps and excluding landing.	21.23	sq.m	
18	RC.03.12	Providing & laying in position RCC work 1:1.5:3 (1 cement:1.5 sand:3 graded crushed rock 20 mm nominal size) in walls (any thickness) incl. pilasters, abutments etc. upto floor five level excl. the cost of centering, shuttering and reinf.	1.83	cu.m	
19	RC.03.13	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Walls, pilasters, buttresses, string course etc.	18.25	sq.m	
	SM.04	**STONE MASONRY WORK**			
20	SM.04.01	Providing and laying Hand packed stone filling or soling with stones under Footings and wall foundations etc	26.25	cu.m	
21	SM.04.02	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:4	42.42	cu.m	
22	SM.04.03	Providing & laying Coursed Rubble Masonry with hard stone hammer-dressed in super structure above plinth level - In cement mortar 1:4	4.34	cu.m	
	BW.05	**BRICK MASONRY WORK**			

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
23	BW.05.01	Providing & laying Second-Class Brick work in Superstructure above plinth level to all floor levels- In cement mortar 1:4	89.19	cu.m	
24	BW.05.02	Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure to all floor levels - In cement mortar 1:4	439.80	sq.m	
	FL.06	**FLOORING WORKS**			
25	FL.06.01	Providing and laying Hand packed stone filling or soling with stones - under floors	33.38	cu.m	
26	FL.06.02	Providing &laying sand bedding, including watering, ramming, dressing complete.	8.35	cu.m	
27	FL.06.03	Providing & laying moisture barrier using plastic sheeting underlay - 200 micro-metre	166.89	sq.m	
28	FL.06.04	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	16.69	cu.m	
29	FL.06.05	Providing & fixing Marbonite tiles flooring 600 x 600 mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.	221.03	sq.m	
30	FL.06.06	Providing & fixing Anti skid ceremic titles 300x300mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.: - in toilet floors and skirting	186.21	sq.m	
31	FL.06.07	Providing & fixing 20mm thick Granite flooring laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles: - in verandah, corridors, staircase etc	76.17	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
32	FL.06.08	Providing & fixing skirting in Marbonite tiles with laticrete or special adhesive finishing the joints with similar colour of the title.	43.11	sq.m	
	WW.07	**WOOD WORKS**			
33	WW.07.01	Providing & fixing to frames for eaves ceiling in blue pine/mixed conifer lining, tongued and grooved, including necessary fixtures, wooden plugs and priming coat on unexposed surfaces (excluding cost of frames) - 20 mm thick	121.40	sq.m	
34	WW.07.02	Providing & fixing Mixed Conifer (undressed) in ceiling & wall-frames etc	1.04	cu.m	
	SW.08	**STEEL WORK**			
35	SW.08.01	Providing & fixing Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	5,022.02	kg	
36	SW.08.02	Providing, making and fixing M.S. straps, flats, sole plates etc.	451.48	kg	
37	SW.08.03	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	217.86	kg	
38	SW.08.04	Providing, fabricating & fixing 1mm GI sheet false Dingri welded with U shaped MS strap as per drawing including cutting, hoisting, fixing and appl. priming coat of red lead paint	3,049.61	kg	
39	SW.08.05	Providing, fabricating & fxing in position staircase Railing in stainless steel pipe including base plates and required accessories as per drawing complete.	41.35	m	
	RF.09	**ROOFING WORKS**			

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
40	RF.09.01	Providing & fixing trapezoidal Pre painted Galvalume (PPGI-120 GSM-550MPA) sheets with metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	360.64	sq.m	
41	RF.09.02	Providing & fixing trapezoidal Pre painted Galvalume Pre painted (PPGI--120GSM-350MPA) 600mm ridges or hips with Metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	81.21	m	
42	RF.09.03	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	91.99	m	
	PL.10	**PLASTER**			
43	PL.10.01	Providing & laying 6mm cement plaster (in ceilings) - C.M 1:4	350.19	sq.m	
44	PL.10.02	Providing & laying 15mm cement plaster on single or half-brick wall in cement mortar 1:4 on (internal walls)	1,221.69	sq.m	
45	PL.10.03	Providing & laying 15mm cement plaster on single or half-brick wall in cement mortar 1:3 on (external walls)	408.90	sq.m	
46	PL.10.04	Providing & applying 2-3mm putty on walls and ceilings, finishing with smooth surface	1,463.53	sq.m	
	PT.11	**PAINTING WORK**			
47	PT.11.01	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	1,463.53	sq.m	
48	PT.11.02	Providing and applying finishing coats- with Water-Proof Cement Paint - New work, three coats	408.90	sq.m	
49	PT.11.03	Providing & applying one coat of primers - Wood work - pink primer	146.14	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
50	PT.11.04	Providing and applying finishing coats - Synthetic enamel, for steel & wood work, two coats on new work	146.14	sq.m	
51	PT.11.05	Providing and applying wood stains, varnishes & polishes - Synthetic varnish (clear) - two coats, including coat of wood filler on new work	265.95	sq.m	
52	PT.11.06	Providing, preparing and applying Dangtshon washable painting to cornices - Ding	14.63	sq.m	
53	PT.11.07	Providing and applying plastic emulsion paint, for cement, masonry, plaster, two coats on new work	1,221.69	sq.m	
	DR.12	**DRAINAGE**			
54	DR.12.01	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	165.90	sq.m	
55	DR.12.02	Constructing IInd class brick mas. drain in CM1:4 incl. e/w in exc. 100mm thk concrete bed 1:5:10, 40mm agg. & 25mm thk CC1:2:4,12 mm agg. for filling haunches incl. 12mm plastering 1:4 with a coat of neat cement & disposal of surplus earth etc.-250mmx300mm depth	104.95	m	
	DW.13	**DOOR & WINDOW COMPONENTS**			
56	DW.13.SD	Providing & fixing Window type SD as per drawing including all accessories, cornices and PCC sill - Complete	4.00	each	
57	DW.13.W3	Providing & fixing Window type W3 as per drawing including all accessories, cornices and PCC sill - Complete	24.00	each	
58	DW.13.V1	Providing & fixing Window type V1 as per drawing including all accessories, cornices and PCC sill - Complete	8.00	each	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
59	DW.13.D1	Providing & fixing Door type D1 as per drawing including all accessories and RCC lintel - Complete	4.00	each	
60	DW.13.D2	Providing & fixing Door type D2 as per drawing including all accessories and RCC lintel - Complete	12.00	each	
61	DW.13.D3	Providing & fixing Door type D3 as per drawing including all accessories and RCC lintel - Complete	12.00	each	
62	DW.13.TS1	Providing & fixing Timber slats type TS1 as per drawing including all accessories, RCC lintel and PCC sill - Complete.	2.00	each	
	Sub-Total for 1 No Self Catering Hostel (Nu.)		**1.00**	**No**	
	Total for 2 Nos Self Catering Hostels (Nu.)		**2.00**	**Nos**	

In Words:

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Bill of Quantities

ROYAL AUDIT AUTHORITY TRAINING CENTRE, TSIRANG

Royal Audit Authority

Name of work:RAA Training Centre

Sub Title : Executive Hostel (3 Nos.)

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
	EW.01	**EARTH WORK**			
1	EW.01.01	Earthwork in excavation over areas by Dozer/Excavator including levelling and dressing, excluding the cost of major break down and transportation of surplus earth/soil within a lead of 5km from the construction site in all kinds of soil	1,000.00	cu.m	
2	EW.01.02	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, depth >300mm including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift in all kinds of soil	104.54	cu.m	
3	EW.01.03	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	50.83	cu.m	
4	EW.01.04	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	38.25	cu.m	
	CW.02	**PLAIN CONCRETE WORKS (PCC)**			
5	CW.02.02	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - bases of RCC footings & wall foundation	7.81	cu.m	
	RC.03	**REINFORCED CONCRETE (RCC)**			
6	RC.03.01	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - Footing, bases of columns etc	13.39	cu.m	
7	RC.03.02	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement- in columns, pillars, posts & struts.	10.25	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
8	RC.03.03	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinforcement -in beams, lintels, bands, plain window sills.	8.41	cu.m	
9	RC.03.04	Providing & laying in position RCC work 1:1.5:3 (1 cement :1.5 sand :3 graded crushed rock 20 mm nominal size) upto floor five level excl. the cost of centering, shuttering and reinf-in slabs, suspended floor, roofs having slope upto 15o, balconies and chajjas.	19.98	cu.m	
10	RC.03.06	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete.	7,604.33	kg	
11	RC.03.07	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - in Foundation pads etc.	34.56	sq.m	
12	RC.03.08	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in columns, pillars, post, struts etc.	135.88	sq.m	
13	RC.03.09	Providing & fixing centering and shuttering upto floor five level level incl. strutting, propping etc. and removal of formwork in lintel, beams, girders, plain window sills etc	109.27	sq.m	
14	RC.03.10	Providing & fixing centering and shuttering upto floor five level incl. strutting, propping etc. and removal of formwork in - slabs, suspended floor, roof, landing, shelves and their supports, balconies, chajjas etc	133.19	sq.m	
	SM.04	**STONE MASONRY WORK**			
15	SM.04.01	Providing and laying Hand packed stone filling or soling with stones under Footings and wall foundations etc	6.02	cu.m	
16	SM.04.02	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:4	26.48	cu.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
17	SM.04.03	Providing & laying Coursed Rubble Masonry with hard stone hammer-dressed in super structure above plinth level - In cement mortar 1:4	5.80	cu.m	
	BW.05	**BRICK MASONRY WORK**			
18	BW.05.01	Providing & laying Second-Class Brick work in Superstructure above plinth level to all floor levels- In cement mortar 1:4	45.39	cu.m	
	FL.06	**FLOORING WORKS**			
19	FL.06.01	Providing and laying Hand packed stone filling or soling with stones - under floors	15.30	cu.m	
20	FL.06.02	Providing &laying sand bedding, including watering, ramming, dressing complete.	3.83	cu.m	
21	FL.06.03	Providing & laying moisture barrier using plastic sheeting underlay - 200 micro-metre	76.50	sq.m	
22	FL.06.04	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	7.65	cu.m	
23	FL.06.06	Providing & fixing Anti skid ceramic titles 300x300mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.: - in toilet floors and skirting	107.66	sq.m	
24	FL.06.07	Providing & fixing 20mm thick Granite flooring laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles: - in verandah, corridors, staircase etc	5.80	sq.m	
25	FL.06.09	Providing & fixing Parquet (wooden block) flooring including blown bitumen underlay and iron screws etc. complete, excluding the cost of frame, 38mm thick	76.50	sq.m	
26	FL.06.10	Providing & fixing Parquet (wooden block) skirting including blown bitumen underlay and iron screws etc. complete, excluding the cost of frame, 38mm thick	12.80	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
27	FL.06.11	Providing & fixing Pre-fabricated wall panelling profiles with necessary nails etc. complete but excluding the cost of frame) - 19 mm, blue pine	147.93	sq.m	
	WW.07	**WOOD WORKS**			
28	WW.07.01	Providing & fixing to frames for eaves ceiling in blue pine/mixed conifer lining, tongued and grooved, including necessary fixtures, wooden plugs and priming coat on unexposed surfaces (excluding cost of frames) - 20 mm thick	106.76	sq.m	
29	WW.07.02	Providing & fixing Mixed Conifer (undressed) in ceiling & wall-frames etc	1.04	cu.m	
	SW.08	**STEEL WORK**			
30	SW.08.01	Providing & fixing Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	3,247.58	kg	
31	SW.08.02	Providing, making and fixing M.S. straps, flats, sole plates etc.	213.78	kg	
32	SW.08.03	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	136.34	kg	
	RF.09	**ROOFING WORKS**			
33	RF.09.01	Providing & fixing trapezoidal Pre painted Galvalume (PPGI-120 GSM-550MPA) sheets with metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	258.12	sq.m	
34	RF.09.02	Providing & fixing trapezoidal Pre painted Galvalume Pre painted (PPGI--120GSM-350MPA) 600mm ridges or hips with Metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	61.80	m	
35	RF.09.03	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	60.53	m	
	PL.10	**PLASTER**			

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
36	PL.10.01	Providing & laying 6mm cement plaster (in ceilings) - C.M 1:4	127.47	sq.m	
37	PL.10.02	Providing & laying 15mm cement plaster on single or half-brick wall in cement mortar 1:4 on (internal walls)	266.92	sq.m	
38	PL.10.03	Providing & laying 15mm cement plaster on single or half-brick wall in cement mortar 1:3 on (external walls)	114.21	sq.m	
39	PL.10.04	Providing & applying 2-3mm putty on walls & ceilings, finishing with smooth surface	381.13	sq.m	
	PT.11	**PAINTING WORK**			
40	PT.11.01	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	381.13	sq.m	
41	PT.11.02	Providing and applying finishing coats- with Water-Proof Cement Paint - New work, three coats	114.21	sq.m	
42	PT.11.03	Providing & applying one coat of primers - Wood work - pink primer	121.89	sq.m	
43	PT.11.04	Providing and applying finishing coats - Synthetic enamel, for steel & wood work, two coats on new work	121.89	sq.m	
44	PT.11.05	Providing and applying wood stains, varnishes & polishes - Synthetic varnish (clear) - two coats, including coat of wood filler on new work	147.93	sq.m	
45	PT.11.06	Providing, preparing and applying Dangtshon washable painting to cornices - Ding	19.66	sq.m	
	DR.12	**DRAINAGE**			
46	DR.12.01	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	106.76	sq.m	

Sl No	Item No.	Description	Quantity	Unit	Rate (Nu)
47	DR.12.02	Constructing IInd class brick mas. drain in CM1:4 incl. e/w in exc. 100mm thk concrete bed 1:5:10, 40mm agg. & 25mm thk CC1:2:4,12 mm agg. for filling haunches incl. 12mm plastering 1:4 with a coat of neat cement & disposal of surplus earth etc.-250mmx300mm depth	79.38	m	
	DW.13	**DOOR & WINDOW COMPONENTS**			
48	DW.13.W1	Providing & fixing Window type W1 as per drawing including all accessories, cornices and PCC sill - Complete	3.00	each	
49	DW.13.W2	Providing & fixing Window type W2 as per drawing including all accessories, cornices and PCC sill - Complete	4.00	each	
50	DW.13.W3	Providing & fixing Window type W3 as per drawing including all accessories, cornices and PCC sill - Complete	4.00	each	
51	DW.13.D1	Providing & fixing Door type D1 as per drawing including all accessories and RCC lintel - Complete.	2.00	each	
52	DW.13.D2	Providing & fixing Door type D2 as per drawing including all accessories and RCC lintel - Complete.	2.00	each	
53	DW.13.D3	Providing & fixing Door type D3 as per drawing including all accessories and RCC lintel - Complete.	2.00	each	
	Sub-Total for 1 No Executive Hostel (Nu.)		**1.00**	**No**	
	Total for 3 Nos Executive Hostels (Nu.)		**3.00**	**Nos**	

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Name of work:RAA Training Centre
Sub Title :Gynasium (1 No.)

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
SUB - STRUCTURE					
1	CW0004	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	22.86	cu.m	
2	CW0006	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	3.05	cu.m	
3	CW0008	Providing and laying in position plain cement concrete 1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	16.85	cu.m	
4	EW0105	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift - All kinds of soil	714.71	cu.m	
5	EW0195	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	130.52	cu.m	
6	RC0002	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - all work upto plinth level	157.32	cu.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
7	RC0018	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) in beams, lintels, bands, plain window sills, staircases upto floor five level excl. the cost of centering, shuttering and reinforcement	54.44	cu.m	
8	RC0083-10	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	3,147.61	kg	
9	RC0083-12	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	1,614.44	kg	
10	RC0083-16	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	8,083.41	kg	
11	RC0083-20	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	916.54	kg	
12	RC0083-25	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	890.43	Kg	
13	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.	84.04	sq.m	
14	RC0092	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Lintels, beams, girders, bresummers, cantilevers etc.	399.08	sq.m	
15	RC0093	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Columns, pillars, post, struts etc.	690.98	sq.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
16	SM0006	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:5	228.38	cu.m	
17	SM0072	Providing & laying Hand packed stone filling or soling with stones	80.82	cu.m	

SUPER-STRUCTURE

18	BW0002+ BW0012	Providing & laying Second-Class Brick work in Foundation & Plinth - In cement mortar 1:3 +Extra, for brick work in superstructure above plinth level, up to floor two level	175.00	cu.m	
19	BW0021	Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure below floor 2 level - In cement mortar 1:4	55.82	sq.m	
20	RC0010	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) in plinth and skirting courses, fillets, columns and struts upto floor five level excl. the cost of centering, shuttering and reinforcement.	105.78	cu.m	
21	RC0014	Providing & laying in position RCC work 1:1.5:3 (1 cement :1.5 sand :3 graded crushed rock 20 mm nominal size) in suspended floor, roofs having slope upto 15o, balconies and chajjas upto floor five level excl. the cost of centering, shuttering and reinf.	20.17	cu.m	
22	RC0015	Providing & laying in position RCC work 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) in suspended floor, roofs having slope upto 15o, balconies and chajjas upto floor five level excl. the cost of centering, shuttering and reinf.	0.01	cu.m	
23	RC0018	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) in beams, lintels, bands, plain window sills, staircases upto floor five level excl. the cost of centering, shuttering and reinforcement	68.54	cu.m	
24	RC0083-10	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	13,430.49	kg	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
25	RC0083-12	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	1,921.32	kg	
26	RC0083-16	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	3,541.27	kg	
27	RC0083-20	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	8,585.57	kg	
28	RC0083-25	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	6,843.84	Kg	
29	RC0083-6	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	3.11	kg	
30	RC0083-8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	1,902.45	kg	
31	RC0092	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Lintels, beams, girders, bresummers, cantilevers etc.	412.42	sq.m	
32	RC0094	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Staircase (except piral staircase) excluding landing	85.05	sq.m	
33	RC0095	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Suspended floor, roof, landing, shelves and their supports, balconies, chajjas etc.	134.49	sq.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
34	SW.08.05	Providing, fabricating & fxing in position staircase Railing in stainless steel pipe including base plates and required accessories as per drawing complete.	58.76	m	

FLOORING

35	CW0003	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	79.68	cu.m	
36	DP0021	Providing & laying moisture barrier using plastic sheeting underlay - 100 micro-metre	796.77	sq.m	
37	EW0196	Providing &laying sand bedding, including watering, ramming, dressing	39.84	cu.m	
38	EW0197	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	239.03	cu.m	
39	FL0203	Providing & fixing Mixed Conifer Flooring including fixing with iron screws etc. complete, excluding the cost of frame - 40mm thick, half-lapped	27.26	sq.m	
40	SM0072	Providing & laying Hand packed stone filling or soling with stones	119.52	cu.m	
41	WW0151	Providing & fixing wooden skirting in mixed conifer with necessary nails or screws complete - 25 mm	23.89	sq.m	
42	WW.07.03	Providing & fixing teak parquet 100mm thick (wood blocks) flooring	947.42	sq.m	
43	WW.07.08	Providing & fixing 100mm thick teak parquet (wood blocks) skirting for conference hall	160.96	sqm	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
44	FL.06.07	Providing & fixing 20mm thick Granite flooring laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles: - in verandah, corridors, staircase etc	77.84	sq.m	
45	FL.06.06	Providing & fixing Anti skid ceramic titles 300x300mm laid on bed of 25mm thick cement mortar 1:3 finishing the joints with similar colour of the titles.: - in toilet floors and skirting	142.49	sq.m	
ROOFING					
46	RF.09.01	Providing & fixing trapezoidal Pre painted Galvalume (PPGI-120 GSM-550MPA) sheets with metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	1,232.40	sq.m	
47	RF.09.02	Providing & fixing trapezoidal Pre painted Galvalume Pre painted (PPGI--120GSM-350MPA) 600mm ridges or hips with Metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	130.83	m	
48	SW0022	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	45,351.73	kg	
49	SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	590.59	kg	
50	SW0090	Providing, making and fixing M.S. straps, flats, sole plates etc.	487.32	kg	
51	WW0021	Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces - Mixed Conifer	6.56	cu.m	
52	WW0030	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	176.60	m	
53	WW0091	Providing & fixing to frames for eaves ceiling in blue pine/mixed conifer lining, tongued and grooved, including necessary fixtures, wooden plugs and priming coat on unexposed surfaces (excluding cost of frames) - 20 mm thick	349.31	sq.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
FINISHING					
54	PL0010	Providing & laying 6mm cement plaster (in ceilings) - C.M 1:3	1,453.96	sq.m	
55	PL0030	Providing & laying 15mm cement plaster on rough side of single or half-brick wall - C.M 1:3	537.09	sq.m	
56	PL.10.02	Providing & applying 2-3mm putty on walls & ceilings, finishing with smooth surface (internal wall).	118.58	sq.m	
57	PT0010	Providing & applying one coat of primers - Cement primer	349.31	sq.m	
58	PT0013	Providing & applying one coat of primers - Wood work - white primer	88.30	sq.m	
59	PT0030	Finishing wall with Water-Proof Cement Paint - New work, three coats	537.09	sq.m	
60	PT0042	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	1,453.96	sq.m	
61	PT0055	Providing and applying finishing coats - Aluminium paint, two coats on new work	27.34	sq.m	
62	PT0064	French polish - two coats, on new work to doors	55.20	sq.m	
63	WW.07.01/a	Providing & fixing 15mm Cement Fibre Board false ceiling (595x595mm)of Everest or equivalent make with powder coated exposed GI grid suspension system including painting & all accessories complete as required as per manufacturer's direction- in all general rooms.Designer FCB & E-2430 Grid-Toilets & corridors & store.	52.31	sq.m	
64	WW.07.01/b	Providing & fixing 6mm Designer Fibre Board false ceiling (595x595mm) of Everest or equivalent make with powder coated exposed GI grid suspension system including painting & all accessories complete as required as per manufacturer's direction- in hall.	810.33	sq.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
65	PT0052	Providing and applying plastic emulsion paint, for cement, masonry, plaster, two coats on new work	118.58	sq.m	

EXTERNAL WORK

66	DR0001	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	293.17	sq.m	
67	DR0012	IInd class brick mas. drain in CM1:4 incl. e/w in exc. 100mm thk concrete bed 1:5:10, 40mm agg. & 25mm thk CC1:2:4,12 mm agg. for filling haunches incl. 12mm plastering 1:4 with a coat of neat cement & disposal of surplus earth etc.-250mmx300mm depth	152.00	m	

DOORS & WINDOWS COMPONENTS

68	WW.07.07	Providing & fixing Alstrong or equivalent Aluminium Composite panel ACP) panel as per drawings complete	199.26	sq.m	
69	W1	Providing & fixing Aluminium Window type W1 including all accessories, cornices and PCC sill - Complete	8.00	each	
70	W2	Providing & fixing Aluminium Window type W2 including all accessories, cornices and PCC sill - Complete	6.00	each	
71	W3	Providing & fixing Aluminium Window type W3 including all accessories, cornices and PCC sill - Complete	1.00	each	
72	W3a	Providing & fixing Aluminium Window type W3a including all accessories, cornices and PCC sill - Complete	1.00	each	
73	W3b	Providing & fixing Aluminium Window type W3b including all accessories, cornices and PCC sill - Complete	4.00	each	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
74	W4	Providing & fixing Aluminium Window type W4 including all accessories, cornices and PCC sill - Complete	2.00	each	
75	W5	Providing & fixing Aluminium Window type W5 including all accessories, cornices and PCC - Complete	20.00	each	
76	V1	Providing & fixing Aluminium Window type V1 including all accessories, cornices and PCC sill - Complete	3.00	each	
77	V2	Providing & fixing Aluminium Window type V2 including all accessories, cornices and PCC sill - Compete	1.00	each	
78	D1	Providing & fixing timber door Door type D1 as per drawing including all accessories and RCC lintel - Complete	2.00	each	
79	D2	Providing & fixing timber Door type D2 as per drawing including all accessories and RCC lintel - Complete	3.00	each	
80	D3	Providing & fixing timber Door type D3 as per drawing including all accessories and RCC lintel - Complete	2.00	each	
81	D4	Providing & fixing timber Door type D4 as per drawing including all accessories and RCC lintel - Complete	4.00	each	
		Total for Gymnasium Nu.)			

In Words: *.....*

Amount (Nu)

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Name of work:RAA Training Centre
Sub Title :Generator Room (1 No.)

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
SUB - STRUCTURE					
1	CW0003	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level for generator stand	0.46	cu.m	
2	CW0008	Providing and laying in position plain cement concrete 1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	1.54	cu.m	
3	EW0105	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift - All kinds of soil	24.59	cu.m	
4	EW0195	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	7.99	cu.m	
5	RC0002	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - all work upto plinth level-Plinth band	0.77	cu.m	
6	RC0083-12	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-Plinth band	192.05	kg	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
7	RC0083-8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-plinth band	46.14	kg	
8	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.-Plinth band	3.19	sq.m	
9	SM0006	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:5	12.21	cu.m	
10	SM0072	Providing & laying Hand packed stone filling or soling with stones	3.07	cu.m	

SUPER-STRUCTURE

11	BW0002+ BW0012	Providing & laying Second-Class Brick work in Foundation & Plinth - In cement mortar 1:3 +Extra, for brick work in superstructure above plinth level, up to floor two level	13.24	cu.m	
12	CW0026	Providing & laying plain cement concrete pocket 1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size) around vertical reinforcement	0.90	cu.m	
13	CW0070	Providing and fixing pre-cast concrete1:2:4 as through stone	0.21	cu.m	
14	RC0018	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) in lintels, roof bands, plain window sills upto one level excl. the cost of centering, shuttering and reinforcement	1.26	cu.m	
15	RC0083-12	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-Lintel & roof band	99.25	kg	
16	RC0083-8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-Lintel & roof band	62.49	kg	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
17	RC0092	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Lintels, roof band etc.	5.21	sq.m	

FLOORING

18	CW0003	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	2.19	cu.m	
19	DP0021	Providing & laying moisture barrier using plastic sheeting underlay - 100 micro-metre	21.95	sq.m	
20	EW0196	Providing &laying sand bedding, including watering, ramming, dressing	1.10	cu.m	
21	EW0197	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	6.58	cu.m	
22	FL0050	Providing & laying cement concrete flooring 1:2:4, finished with floating coat of neat cement - 12mm aggregates, 25mm thick	23.72	sq.m	
23	FL0130	Providing & laying Cement plaster skirting < 300mm height with cement mortar 1:3 with a floating coat of neat cement including rounding off junctions with floor - 20mm	2.26	sq.m	
24	SM0072	Providing & laying Hand packed stone filling or soling with stones	3.29	cu.m	

ROOFING

25	RF0001-1	Providing & fixing trapezoidal Pre painted Galvalume (PPGI-120 GSM-550MPA) sheets with metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	56.66	Sq.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
26	RF0005-1	Providing & fixing trapezoidal Pre painted Galvalume Pre painted (PPGI--120GSM-350MPA) 600mm ridges or hips with Metal sealed EPG10 colour coats system - 0.5mm CRIL or EVEREST or Equivalent	20.34	m	
27	SW0022	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	1,265.90	kg	
28	SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	50.05	kg	
29	SW0090	Providing, making and fixing M.S. straps, flats, sole plates etc.	161.10	kg	
30	WW0030	Providing & fixing Eaves board (150x40mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	30.04	m	

FINISHING

31	PL0030	Providing & laying 15mm cement plaster on rough side of single or half-brick wall - C.M 1:3	62.13	sq.m	
32	PL0031	Providing & laying 15mm cement plaster on rough side of single or half-brick wall - C.M 1:4	49.56	sq.m	
33	PT0020	Providing & applying white or colour washing - White washing with lime-new work-three coats	111.69	sq.m	
34	PT0042	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	111.69	sq.m	

EXTERNAL WORK

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
35	DR0001	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	28.20	sq.m	
36	DR0011	Constructing IInd class brick mas. drain in CM1:4 incl. e/w in exc. 100mm thk concrete bed 1:5:10, 40mm agg. & 25mm thk CC1:2:4,12 mm agg. for filling haunches incl. 12mm plastering 1:4 with a coat of neat cement & disposal of surplus earth etc.-150mmx200mm depth	30.04	m	
CEILING					
37	PT0013	Providing & applying one coat of primers - Wood work - white primer	65.17	sq.m	
38	PT0047	Providing and applying finishing coats - Synthetic enamel, for steel & wood work, two coats on new work	65.17	sq.m	
39	WW0021	Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces - Mixed Conifer	0.43	cu.m	
40	WW0132	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) - 6 mm, commercial	28.20	sq.m	
41	WW0132-1	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) - 20 mm, commercial	21.95	sq.m	
DOORS & WINDOWS COMPONENTS					
42	W	Providing & fixing Window type W as per drawing including all accessories, cornices & PCC sill - Complete	2.00	each	
43	D	Providing & fixing timber door type-D as per drawing including all accessories and RCC lintel - Complete	1.00	each	
BHUTANESE PAINTING					

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
44	SP-BP-01	Providing & applying Synthetic enamel mixed with mud paint for Painting to Generator House	1.00	L/S	

Total for Generator Room (Nu.)	

In Words: *.....*

Amount (Nu)

Amount (Nu)

Amount (Nu)

Amount (Nu)

Amount (Nu)

Amount (Nu)

Name of work: RAA Training Centre
Sub Title: Caretaker Room (1 No.)

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
SUB - STRUCTURE					
1	CW0003	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level for generator stand	1.29	cu.m	
2	CW0008	Providing and laying in position plain cement concrete 1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	2.75	cu.m	
3	EW0105	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift - All kinds of soil	44.04	cu.m	
4	EW0195	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	14.09	cu.m	
5	RC0002	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - all work upto plinth level-Plinth band	1.38	cu.m	
6	RC0083-12	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-Plinth band	296.71	kg	
7	RC0083-8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-plinth band	77.74	kg	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
8	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.-Plinth band	5.51	sq.m	
9	SM0006	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:5	21.69	cu.m	
10	SM0072	Providing & laying Hand packed stone filling or soling with stones	5.51	cu.m	
-STRUCTURE					
11	BW0002+ BW0012	Providing & laying Second-Class Brick work in Foundation & Plinth - In cement mortar 1:3 +Extra, for brick work in superstructure above plinth level, up to floor two level	13.24	cu.m	
12	CW0026	Providing & laying plain cement concrete pocket 1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size) around vertical reinforcement	1.29	cu.m	
13	CW0070	Providing and fixing pre-cast concrete1:2:4 as through stones	0.21	cu.m	
14	RC0018	Providing & laying in position RCC work 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) in lintels, roof bands, plain window sills upto one level excl. the cost of centering, shuttering and reinforcement	1.38	cu.m	
15	RC0083-12	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-Lintel & roof band	130.51	kg	
16	RC0083-8	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-Lintel & roof band	77.74	kg	
17	RC0092	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Lintels, roof band etc.	5.51	sq.m	

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
18	RC0083-10	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 415 MPa) for R.C.C work including cutting, bending, binding and placing in position complete-slab	880.18	kg	
19	RC0014	Providing & laying in position RCC work 1:1.5:3 (1 cement :1.5 sand :3 graded crushed rock 20 mm nominal size) in suspended floor, roofs having slope upto 15o, balconies and chajjas upto floor five level excl. the cost of centering, shuttering and reinf.	6.30	cu.m	
20	RC0095	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Suspended floor, roof, landing, shelves and their supports, balconies, chajjas etc.	42.00	sq.m	
FLOORING					
21	CW0003	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.	3.61	cu.m	
22	DP0021	Providing & laying moisture barrier using plastic sheeting underlay - 100 micro-metre	42.00	sq.m	
23	EW0196	Providing &laying sand bedding, including watering, ramming, dressing	1.81	cu.m	
24	EW0197	Providing &laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	10.83	cu.m	
25	FL0050	P&l cement concrete flooring 1:2:4, finished with floating coat of neat cement - 12mm aggregates, 25mm thick	43.77	sq.m	
26	FL0130	Providing & laying Cement plaster skirting < 300mm height with cement mortar 1:3 with a floating coat of neat cement including rounding off junctions with floor - 20mm	4.74	sq.m	
27	SM0072	Providing & laying Hand packed stone filling or soling with stones	5.42	cu.m	
FINISHING					

Sl No	BSR Ref No	Description	Quantity	Unit	Rate (Nu)
28	PL0010	Providing & laying 6mm cement plaster (in ceilings) - C.M 1:3	42.00	sq.m	
29	PL0030	Providing & laying 15mm cement plaster on rough side of single or half-brick wall - C.M 1:3	76.98	sq.m	
30	PL0031	Providing & laying 15mm cement plaster on rough side of single or half-brick wall - C.M 1:4	81.60	sq.m	
31	PT0020	Providing & applying white or colour washing - White washing with lime-new work-three coats	200.58	sq.m	
32	PT0042	Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat	200.58	sq.m	
33	PT0064	French polish - two coats, on new work to doors	7.56	sq.m	
DOOR & WINDOWS COMPONENTS					
34	W	Providing & fixing Window type W as per drawing including all accessories, cornices & PCC sill - Complete	3.00	each	
35	V	Providing & fixing timber window frame and shutter to window type V as per drawing including all accessories, cornices & PCC sill- Complete	1.00	each	
36	D3	Providing & fixing timber Door type D3 as per drawing including all accessories and RCC lintel - Complete	1.00	each	
37	D4	Providing & fixing timber Door type D4 as per drawing including all accessories and RCC lintel - Complete	1.00	each	
BHUTANESE PAINTING					
38	SP-BP-01	Synthetic enamel mixed with mud paint for Painting to Generator House	1.00	L/S	
		Total for Caretaker's Room (Nu.)			

In Words: *.....*

Amount (Nu)

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Amount (Nu)

Amount (Nu)