ॉक्ट्रेंट्स<u>ुर्याच</u>ित्रः कर्ना तहित्रा

KHOLONGCHHU HYDRO ENERGY LIMITED

A Joint Venture of Druk Green (Bhulan) & SJVN (India) Incorporated under the Companies Act of Kingdom of Bhuton,

KHOLONGCHHU HYDROELECTRIC PROJECT (600 MW)



BIDDING DOCUMENT FOR

CONSTRUCTION OF BHU BUILDING & AUXILIARY WORK AT DOKSUM/KHITSHANG

TRASHIYANGTSE

TENDER NO.: INFRA - 2022-1

REVISED BILL OF QUANTITIES (ANNEXURE - JH)

January, 2022



Abstract of Cost

Name of Work: Construction of BHU Building and Auxiliary Works at Doksum Town, Trashi Yangtse

A	BHU Building		
В	CARETAKER & DRIVER'S QUARTER		
0	DOCTOR'S QUARTER		
D	LAUNDRY AND KITCHEN		
ш	STAFF QUARTER		
71	BENCHING		
٥	CHAINED LINKNFENCING (5M HEIGHT)		
Ξ	EXTERNAL STAIRCASE IN RRM		
	FOOTPATH		
_	PARKING AND ROAD WORKS		
×	2.0m HEIGHT RETAINING WALL		
-	3.0m HEIGHT RETAINING WALL		
Ν	4.0m HEIGHT RETIANING WALL		
z	5.0m HEIGHT RETAINING WALL		
0	WATER SUPPLY, RAW WATER STORAGE AND SEWERAGE NETWORK		
Р	STORM WATER DRAINS		
۵	COMPOUND ELECTRIFICATION FOR BHU AND PSSD		
R	OCCUPATIONAL HEALTH AND SAFETY	大ないのはのかか	
	GRAND TOTAL (A+B+R)	OHWA.	



BILL OF QUANTITIES Contruction of BHU Building and Auxiliary Work at Doksum Town Tender No.: INFRA 2022-1

A. BHO	A. BHO Buiding (Civil)				Rate (Nu.)
SI.No.	Item Description	Quantity	Unit	Figure	Words
1	Clearing & Grubbing				
1	Clearing jungle including uprooting of vegetation & trees of girth <300mm & disposal within 50m of the site.	831.36	m-bs		
2	Earth work			+	
	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan,				
	depth >300mm including dressing and ramming, disposal of surplus soil within som lead & 1.5m lift.				
2.1	a) All kinds of soil	1,008.92	cu.m		
2.1.1	b) All Kinds of Rock with or without blasting	1,008.92	cu.m		
2.2	Filling of trenches, sides of foundations, areas to be raised etc. including compaction in layers < 200mm using selected excavated earth within lead 50m &	1,564.46	cu.m		
2.3	Providing and laying dry earth bedding, including consolidating each deposited layer by watering ramming and dressing.	179.80	cu.m		
w	Damp Proof Course				
3.1	Providing & laying 75mm thick sand bedding, including watering, ramming, dressing.	27.81	cu.m		
3.2	Providing and laying moisture barrier using plastic sheeting underlay -100 micro metre.	617.64	sq.m		
à.	Stone Work				
4.1	Providing and laying dry hand packed stone soling/course aggregate filling with hard stone.	184.64	cu.m		
4.2	Random Rubble Masonry with hard stone in cement mortar 1:4 in joundation and plinth.	322,19	cu.m	**	c
5	PCC work (excluding centering and shuttering)				
. ž	Providing and laying in position plain cement concrete - 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	61.76	cu.m	ONOTONIA, A PAROTONO	43°0,148

8.2	on	7.1	7	6.5	6.4	6.3	6.2	5.1	50	5.3	5.2
propping etc. and removal of formwork - Foundation and plinth. Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Columns, Pillars, posts, etc. in superstructure with Phenol bonded ply shuttering.		Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. (PERFECT THERMEX TMT or equivalent).	Steel reinforcement	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement.	Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) in suspended floor, roofs having slope upto 150, landings, balconies, shelves and chajjas upto floor five level excluding the cost of centering, shuttering and reinforcement.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in beams, lintels, slabs, staircase above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in columns, Pillars, posts above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in foundation for footings and beams up to plinth.	RCC work (excluding form work and reinforcement)	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	graded crushed rock 40 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.
512.16 s 382.00 s		69,083.00		39.06	0.55 c	0.55	38.20	179.77		30.88	143.34 cu.m
m-bs m-bs		₹	_	39.06 cu.m	cu.m	0.55 cu.m	38.20 cu.m	179.77 cu.m		cu.m	cu.m
								,			

	10.1.6	10.1.5	10.1.4	10.1.3	10.1.2	10.1.1	. 10.1	10	9.2	9.1	9	8.5	8.4	8.3
B	WA180a	WA180	WA243	DW285	RW-02	RW-01	Providing & fixing in position with timber (of mixed conifer) in window frames with aluminium window shutter including 6mm thick plain glass, 25mm diameter pelmet & curtain rod, tower bolt, handle and hook of eye, all three of 100mm, 100mm long hinges and 400mm long hold fast as per drawing, etc., complete - (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices).	Doors & Windows	Providing & laying concrete block brick in Foundation & Plinth in cement mortar 1:4 including superstructure above plinth level upto floor three level (including all lifts and heights) - 250mm & 150mm thk.	Providing &laying Coursed Rubble Masonry with hard stone hammer/machine dressed in foundation & plinth (In cement mortar 1:4) including superstructure above plinth level upto floor three level (including all lifts and heights) - 400mm thk.	Coursed Rubble Masonry/Concrete Block Brick	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Walls, pilasters, buttresses, string course etc.	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.	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Beams, Lintels, Slabs, Landings, Staircases etc. in superstructure with Phenol bonded ply shuttering.
Take:	1.00	12.00	5.00	1.00	2.00	4.00			205.77	156.72		335.34	2.13	1,622.60
	Each	Each	Each	Each	Each	Each			cu.m	cu.m		m-bs #	m.ps	m.ps

17.4	11.3	11.2	Ē	11	10.3	10.2.6	10.2.5	10.2.4	10.2.3	10.2.2	10.2.1	10.2	10.1.9	10.1.8	10.1.7 WA100
Providing, making and fixing, M.S Gusset Plate, straps, flats, sole plates are complete in roof truss work.	Providing & fixing boits of various sizes including nuts & washers, complete in all areas.	Providing and fixing MS round hold-down boits with nuts and washer plates, complete in all areas.	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red- In tubular sections. (BSTL Brand or equivalent)	Steel works	Providing & fixing in position with timber (of mixed conifer) in entrance porch-complete (Inclusive of traditional wooden cornices, drey-zhu, kachen, etc., pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional comices).	D85a	D85	Dioca	D100	D120	D135	Providing & fixing in position with timber (of mixed conifer) in door frames including 30mm thick timber shutter, 100mm long hinges, 100mm long L-drop latch, 100mm long tower bolts, 125mm long door handle, door stopper and 400mm long hold fasts as per drawing, etc., complete (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices).	WA80	WA100a	WA100
377.14	87.05	278.18	11,230.65		1.00	12.00	3.00	2,00	23.00	7.00	2.00		12.00	9.00	7.00
Kg/	Kg	Kg.	8		Each	Each	Each	Each	Each	Each	Each		Each	Each	Each
												•			

	15.2	15.1	15	14.5	14.4	14.3	14.2	4.1	14	13.7	13.6	13.5	13.4	13.3
SONOTOHX#	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) 6 mm, commercial.	Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 13:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel.	External Works	High gloss synthetic enamel (SWAGAT Brand or equivalent) for steel & wood work, two coats on new work - For Eaves Board.	Acrylic washable distemper (SWAGAT Brand or equivalent), two coats on new work, including cement primer coat - inside wall and celling.	Providing & laying 20mm cement plaster in cement mortar 1:4 in Staircase & Ramp.	Providing and laying 12mm thick cement plaster in cement mortar 11.4 in ceiling.	Providing and laying 15mm thick cement plaster in cement mortar 1:4 in inside wall.	Finishing	Providing & fixing 150x150mm white/ coloured Glazed tiles (NITCO Brand or equivalent) in skirting, step risers, dado, finished with flush pointing in white cement.	Providing & fixing 300x300mm white/ coloured glazed tiles (NITCO Brand or equivalent) in flooring, treads of steps and landings laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement.	Providing and laying ceramic tiles (NITCO Brand or equivalent) of size 300x300mm in walls on 10mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing and laying anti skid tiles (NITCO Brand or equivalent) of size 300x300mm in floors on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing & laying marble stone flooring over zomm thick base of cement mortary 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete.
CMITED*	243.34	269.00		55.84	3,688.95	62.99	873.70	2,815.25		71.49	532.43	189.97	61.83	419.58
	mrbs 4	m-bs (sq.m	m.ps	sq.m	sq.m	sq.m		m-bs (sq.m	sq.m	m-bs (m.ps
										,				

16.7	16.6	16.5	16.4	16.3	16.2	16.1	16	15.5	15.4	15.3
Providing & fixing Indian-type vitreous china w.c squatting pan, including 100 mm H.C.I P or S trap, 10 lit plastic cistern & fittings, repair walls, 580mm, colcur Orissamodel. (SIMPOLO Brand or equivalent)	Providing & fixing European-type vitreous china w.c pedestal including coloured plastic seat and lid with c.p brass hinges, 10 lit white plastic cistern, fittings, brackets, repair walls. (SIMPOLO Brand or equivalent)	Providing & fixing white vitreous flat back wash basin size 630x450mm with single 15mm c.p brass pillar taps, including C.I brackets, 15mm C.P brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia trap & union, repair walls. (SIMPOLO Brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN-16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wall complete as per direction of Engineer-in-Charge 20mm. (FUSION brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN 16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings excluding trenching, refilling but including testing of joints complete as per direction of Engineer-in- Charge 25mm. (FUSION brand or equivalent).	Providing & laying G.I. pipes (PKM brand or equivalent) including G.I. fittings (excluding trenching, refilling & thrust block) - 25mm.	Providing & laying G.I. pipes (PKM brand or equivalent) including G.I. fittings (excluding trenching, refilling & thrust block) - 32mm.	Plumbing Works	Providing & fixing 12mm thick bison panel (pre-laminated both sides for wall/ceiling) lining with necessary nails/screws etc. complete, excluding the cost of frame - Eaves Board.	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed (frames for the external ceiling)-Mixed Conifer.	Synthetic enamel (SWAGAT brand or equivalent), for steel & wood work, two coats on new work - for plywood lining.
2.00	8.00	12.00	69.86	78.93	78.93	25.90		29.92	3.42	243-34
Each	Each	Each	Mtr.	Mtr.	Mtr.	Mtr.		m.ps	cu.m	sq.m
大学 かいます からない からない からない からない からない からない からない からない										

4.00 Each 10.00 Each 10.00 Each 10.00 Each 10.00 Each 1.00 Each 2.00 Each 30.00 Each 30.00 Each 2.00 Each 2.00 Each 2.00 Each 2.00 Each 2.00 Each	4.00 Each 10.00 Each 10.00 Each 10.00 Each 1.00 Each 1.00 Each 2.00 Each 30.00 Each 30.00 Each 2.00 Each 2.00 Each 6.00 Each 2.00 Each 2.00 Each 2.00 Each 2.00 Each 2.00 Each	17.1 to	17 S	16.22 P	16.21 P	16.20 P	16.19 P	16.18 P	15.17 P	16.16 P	16.55 P	16.14 22 14.14 24 14.14 24	15.13 P	16.12 P	16.11 P	16.10 P	16.9 P	16.6
Each Each Each Each Each Each Each Each	Each Each Each Each Each Each Each Each	enching, refilling & thrust block) - 160mm dia.		oviding & fixing 25 litres Electric water heater including necessary fittings.	oviding & fixing Hinged Grab Rail.	oviding & fixing Grab Rail/Hand Rail 600mm.	oviding & fixing c.p. towel rall 600 x 20mm with c.p brass brackets fixed to ooden cleats. (Jaquar Brand or equivalent)	oviding & fixing c.p. brass mixers, 15mm - For basin, single-hole, casted spoutaquar Brand or equivalent)	oviding & fixing Angle valves 20 mm.	oviding & fixing pedestals for basins, white vitreous china, recessed back for pes and necessary fittings. (SIMPOLO Brand or equivalent)	oviding & fixing Connecting Hose in WC cistern, Geyser, Wash Basin etc.	onstructing Brick masonry valve chamber in cement mortar 1:4, reinforced ment concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock mm nominal size aggregates), foundation concrete 1:4:8 40mm aggregates, mm plaster in cement mortar 1:3 finished, inside dimension 600 x 600mm & 000mm deep including C.l. cover & frame (weight > :8 kg).	& fixing 2000 ltrs. plastic tank including Brand or equivalent)	oviding and fixing c.p. brass bibcock- 15mm standard vertical, c.p. kncb. (Jaquar and or equivalent)	oviding & fixing brass stop cock -32mm. (Jaquar Brand or equivalent)	oviding & Fixing C.P. brass tollet paper holder with necessary fittings. (Jaquar rand or equivalent)	oviding & fixing 800x1200mm bevelled edge mirror (superior giass) including nm A.C sheet base fixed to wooden cleats.	4mm A.C sheet base fixed to wooden clears.
Each Each Each Each Each Each Each Each	Each Each Each Each Each Each Each Each	80.18		2.00	2.00	4.00	8.00	4.00	30.00	2.00	30.00	1.00	4.00	10.00	8.00	10.00	4.00	4.00
The fill of the fi						10000	0.000		1	1			0.4000					
		6	34		1													

	Total in Words:		17.15	17.14	17.13	17.12	17.11	17.10	17.9	17.8	17.7	17.6	17.5	17.4	17.3	17.2
	Words:		Constructing Brick masonry interception chamber in cement mortar 1:5, reinforced cement concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), foundation concrete 1:4:8 40mm aggregates, 12mm plaster in cement mortar 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 20mm aggregates, neatly finished complete, Inside dimension 900 x 800mm & 600mm deep including C.I. cover & frame (weight >38 kg) - Interception pit.	Providing & fixing P.V.C Nahani Trap- 110mm inlet & 75mm outlet.	Providing & fixing P.V.C Double Y, plain- 110mm dia.	Providing & fixing P.V.C Double Tee with door- 110mm dia.	Providing & fixing P.V.C plain bend- 50mm dia.	Providing & fixing P.V.C plain bend- 90mm dia.	Providing & fixing P.V.C plain bend-110mm dia.	Providing & fixing P.V.C Single Tee with door- 75 dia.	Providing & fixing P.V.C Single Tee with door - 110mm dia.	Providing & fixing P.V.C Long arm bend with door- 75mm dia.	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 110mm dia.	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 90mm dia.	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) +75mm dia.	including pipe clip complete (excluding the cost of PVC fittings) - 50mm dia.
TOHU+	1		6.00	12.00	2.00	4.00	6.00	4.00	6.00	6.00	6.00	6.00	16.46	13.88	16.46	26.18
5	の上の問題のかの	10 m	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Mtr.	Mtr.	Mtr.	Mtr.
TED+ 1	b /	Total for BHU Building														

	Providing 8 PVC insulat 1.40 recessed H etc. as requ	1.3.2 2x4 sqmm	1.3.1 2x1.5 sq.mm	Providing 8 PVC insulat recessed H etc. as requ	1.2.1 Long point	1.2.1 Medium point	Providing 8 PVC insulat 1.20 recessed H and switch	1.1.3 Long point	1.1:2 Medium point	1.1.1 Short Point	Providing 8 sq.mm 1.1k sq.mm1.1k 1.1 equivalent including o (Legrand/s	t WIRING	Sl.No	to one oursing (meen cor)
	Providing & Wiring for points in excess length above long points with 1.1k ^N grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equivalent); - 2x2.5 sq.mm		n	Providing & Wiring for points in excess length above long points with 1.4kV grad2, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equivalent)		bint	Providing & Wiring for 5/6 pin, 6/16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe with providing and fixing 5/6 pin, 6/16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equivalent)		oint		Providing & Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/iPPL/Havels or equivalent) in recessed HDPE pipe with 6A modular type switch, MS boxes including connections, painting, testing and commissioning etc. as required (Legrand/ schneider make or equivalent)		Description	(Contract)
	684.00	685.00	220.00		92.00	1.00		129.00	131.00	9.00			Quantity	
NA BY	Mtr.	Mtr.	Mtr		Point	Point		Point	Point	Point			Unit	
NA ST.	で (2000年) 日 (2000年) 日 (2000年)												Figure	
													Word	Rato(Nii)
							•						Amount (Nu.)	

3.3.2	3.3.1	3,3	3.2	. ¥	3	2.40	2-3	2.2	2.1.2	2.1.1	21	2	1.5.2	1.5.1	1.5.0
20A	10A -	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required(BSB Approved Make)	Supplying of Aluminium alloy/wrought aluminium busbar complete with all accessories etc. to accomodate in prefabricated MS cubical panel board as required(BSB Approved Make),; - 4 strips, 600mm bar, 300A	Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 36KA, 4 pole 415 voit A.C complete with all accessories etc. as required(BSB Approved Make),; - 250A	CONTROL, SWITCHGEARS AND BUSBAR	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as required 1200 mm sweep	Supplying of exhaust fan 240 volt A.C 1400 rpm with all accessories such as frame with arm 3 Nos., sweep 3 Nos., condenser and fan body etc. complete as required 300mm sweep	Cat No. LED Up-Down Wall Light(Outdoor)/Code-680701,5W	Cat No./LED Surface Ceiling Light(Round)/Code-650624,6W	Cat No./LED Surface Ceiling Light(Round)/Code-650027,18W	Supplying of light fittings complete set with all accessories as required, with lamp (Havells/HPL/Vinay or Equivalent).	FITTING & ACCESSORIES	4x16 sq.mm Cu. Cable	4x10 sq.mm Cu. Cable	Providing & Wiring for sub-main with 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections including connections, painting, testing and commissioning etc. as required (Legrand/ Schneider make or equipment)
93.00	15.00	2	1.00	1.00		48.00	2.00	4.00	117.00	97.00			85.00	30.00	Castal.
Each	Each		Each	Each		Each	Each	Each	Each	Each			Mtr.	Mtr.	

	2	4	3.7	3.6.2	3.6.1	3.6	3.5.2	3.5.1	3-5	3.4.2	3.4.1	3.4
Fage 12 of S4	Erection of all indoor/outdoor surface type wall bracket (single or double)/ surface ceiling fittings GLS lamps/ bulk head GLS lamp / all types call bell / all type picture or mirror lighting luminiaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor, - 1.5 sq.mm single core cable 1.1 KV grade	ERECTION/ INSTALLATION	Design, fabrication, providing, erection, connection, testing & commissioning of cubical indoor, floor mounting type, sheet steel, clad dust, and vermin proof, I.?. 54 protection (Indoor type) L.T. Panel Boards as per the provided in drawings, including 3 phase energy meter provision. The panel should be suitable for 4.50 Volts, 3 Phase, 4 Wire, 50 Hz, supply System. Complete with cable allays, bus BOTTOM cable entries as required, powder coated finish of approved shade etc. all as specified, with Schneider/ Legrand Make Components. Built by reputed panel manufacturer.	8 way	6 way	Supply of TPN distribution board (DIN type, vertical) with arcylic door, 415 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming etc. as required (BSB Approved Make)	63A	40A	Supply & fixing of residual current circuit breaker (RCCB) 4 pole, sensitivity 10cm/s, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required(BSB Approved Make)	63A	40A	Supply of miniature circuit breaker (MCB) triple pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required (BSB Approved Make)
	218.00		1.00	3.00	2.00		3.00	2.00		3.00	2.00	
SUN DONOTOHOU 4 S	Each		Set	Each	Each		Each	Each		Each	Each	
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	4.8.2	4.8.1	4.8	4.7.2	4.7.1	4.7	4.6	4.5	4.4	4-3	. 42
Page 13 of 84	8 way	6 way	Installation, testing and commissioning of TPN DB (DIN type, horizontal/vertical) with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB FP 40/63A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16A on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc. as required	63A, 415V	40A, 415V	Installation, testing and commissioning of TPN/four pole miniature circuit breaker (DIN type) complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required	Installation, testing and commissioning of four pole moulded case circuit breaker (DIN type) breaking capacity 36/70K/earthleakage module complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required, - 250A, 415V	Installation, testing & commissioning of aluminium alloy/wrought aluminium bus bar complete with all accessories accessories to accomodate in prefabricated MS cubical control panel board including connections etc. as required, - 4 strips, 600mm length, 300A	Installation, testing and commissioning of SP/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface/MS cubical control panel board including drilling holes, connections etc as required, - 6/10/16/20A	Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVCinsulated copper conductor, - 1.5 sq.mm single core cable 1.1 KV grade	existing opening including making the hole to suit the size of the indicated fan making good the damages, and connection with PVC insulated copper conductor, - 1.5 sq.mm single core cable 1.1 KV grade
7	3.00	2.00	Y K	3.00	2.00		1.00	1.00	108.00	48.00	2.00
	Each	Each		Each	Each		Each	Each	Each	Each	Each

	6.3	6.2	6.1	6	5.4	5.3	5.2	5.1	5	5.3	5.2	55	5
Page 14 of 84	Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories Supplying Telephone Terminal Cabinet (Trc)(SQCA Appd.)as required.	Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc.as required RJ 11 telephone socket	Provide and draw high density polythene insulated & sheathed copper conductor 0.5mm dia telephone wire in recessed HDPE pipe wiring system complete as required - 2 pair	TELEVISION NETWORK	Installation, Testing and Commissioning of end termination with single/double compresion gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required - 45/50/55mm dia	Laying of one number PVC insulated and sheathed power cable copper/aluminium,armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushing, protective covering and refilling the trenches etc. as required; - Above 70sq.mm to 150sq.mm	Supplying of heavy duty brass single compression gland for 4- Core 1.1KV grade PVC insulated and sheathed Copper/ Aluminium conductor armoured/un-armoured power cables - 50mm dia, - 150sq.mm	Supplying of 4- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables - 150 sq.mm	POWER CABLE	Providing and fixing metal strip on parapet or surface of wall/roof for lightning conductor as required for vertical run, 25x4mm G.! strip	Providing and fixing lightning conductor including holes etc. complete as required, 25mm dia 300mm long G.I tube single prong at top with 85mm dia 6mm thick copper base plate	Provide and install earthing with GEE slab 4' x 1' x 2" -8 nos connected in series, including 25x4mm GI strip running upto DBs. Manufactured by Druk-Care GEE slab earthing system at Jimena, Thimphu or equivalent. For installation- visit websitc: www.drukcare.com	EARTHING
	1.00	15.00	360.00		2.00	55.00	2.00	55.00		53.00	1.00	2.00	
	Each	Each	Mtr		Each	Mtr.	Each	Mtr.		Mtr.	Each	Set	
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2.1	2	5		DE NO.	CI NO	В	Total ir		8.3	8.2	8.1	00	7.2	7.1	7	6.5	6.4
Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in plan, depth >300mm including dressing and ramming, disposal of surplus soil within 50m lead & 1.5m lift.	Earth work	Clearing jungle including uprooting of vegetation & trees of girth <300mm & disposal within 50m of the site.	Clearing & Grubbing	wein beschbaga		CARETAKER AND DRIVER'S QUARTER (CIVIL)	Total in Words		Providing and laying earth connection from earth electrodes in 15mm dia. Gl pipe from earth electrode as required as per guidance of standard earthing drawing with 4.06mm dia (85WG) copper wire.	Providing and drawing wire for loop earthing in exisiting surface/recessed PVC/MS/ steel conduit or cassing capping or wooden batten along with other wires as required - 2.032mm (14 SWG) copper wire.	Providing and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, water pipe with excavation and refilling work including charcoal or coke and salt complete required as per standard earthing drawing - With copper earth plate 600x600x3mm.	Earthing for LA	GI tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long.	25mm dia 900mm long copper tube four prong	LIGHTING ARRESTOR	Providing and supplying of air Conditioning , Hitachi or equivalent 1.5 MT , Hot and Cold including wiring of cables and asociated works such as painting , testing and commissioning	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required - 25 mm
TONINA BES		122.22		Quantity	Quantity			l.	60.00	60.00	1.00		1.00	1.00		16.00	240.00
)雪		m-bs			Unit				Mtr	Mtr	Sets		Each	Each		Each	Mtr
* 110				Figure	70												
				Words	Rate (Nu.)			Total for BHU Building									
				Company Commy	Amount (Nu.)												

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Page 15 of 84

6.3	6	5.3	5.2	5.1	5	45	4	ą.	3.2	3.1	w	2.3	2,2	2.1.2	2.1.1
Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in foundation for footings and beams up to plinth.	RCC work (excluding form work and reinforcement)	Providing and laying in position plain cement concrete:3:6 (1 cement: 3 sand: 6 graded crushed rock 20mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Providing and laying in position plain cement concrete 1:3:6 (1 cement: 3 sand: 6 graded crushed rock 40mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Concrete work (excluding centering and shuttering)	Random Rubble Masonry with hard stone in cement mortar 1:4 in foundation and plinth.	Providing and laying dry hand packed stone soling/course aggregate filling with hard stone.	Stone Work	Providing and laying moisture barrier using plastic sheeting underlay -100 micro metre.	Providing & laying 75mm thick sand bedding, including watering, ramming, dressing.	Damp Proof Course	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	Filling of trenches, sides of foundations, areas to be raised etc. including compaction in layers < 200mm using selected excavated earth within lead 50m & 1.5m lift.	b) All Kinds of Rock with or without blasting	a) All kinds of soil
14.46		4.20	7.27	8.41		43.03	23,51		84.05	6.30		12.61	25.36	47.97	47.97
cu.m		cu.m	cu.m	Cr.m		Cu.m	cu.m		m-bs	cu.m		cu.m	cu.m	cu.m	cu.m
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10.1.3	10.1.2	10.1.1	10.1	10	9.2	. 9.	9	8.2	8.1	60	7.1	7	6.2
W175	W243	W95	Providing & fixing in position with timber (of mixed conifer) in window frames including 6mm thick plain glass, 25mm diameter pelmet & curtain rod, tower bolt, handle and hook of eye, all three of 100mm, 100mm long hinges and 400mm long hold fast as per drawing, etc, complete - (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices).	Doors & Windows	Providing & laying concrete block brick in Foundation & Plinth in cement mortar 1:4 including superstructure above plinth level upto floor three level (including all lifts and heights) - 250mm & 150mm thick.	Providing & laying Coursed Rubble Masonry with hard stone hammer/machine-dressed in foundation & plinth (In cement mortar 1:4) including superstructure above plinth level upto floor three level (including all lifts and heights) - 400mm thick.	Coursed Rubble Masonry/Concrete Block Brick	Beams, Lintels, Slabs, Landings, Staircases, Walls etc. in superstructure with Phenol bonded ply shuttering.	Foundation and plinth.	Form work (Providing & fixing centering and shuttering (formwork), including strutting, propp	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. (PERFECT THERMEX TMT or equivalent)	Steel reinforcement (providing & fixing Including cutting, bending, binding and placing in posi	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in beams, lintels, slabs above plinth up to roof.
2.00	6.00	4.00			35-19	68.22		173.14	63.24	ting, propp	3,529.00	cing in pos	19.75
Each	Each	Each			cu.m	cu.m		sq.m	sq.m	ping etc. a	8	ition)	m.n2
										ing etc. and removal of formwork)			

	12.2	23	12	14	11.3	11,2	1	11	10.2.4	10.2.3	10.2.2	10.2.1	10.2
	Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection - 25g. (CRIL or equivalent)	Providing & fixing 0.5mm thick pre-painted Al-Zn alloy coated Steel roofing sheets of 24G in natural finish, including bolts, hooks and nuts 8mm dia. with bitumen and G.I limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses of Colour Roof India Limited. (CRIL or equivalent)	Reofing	Providing, making and fixing, M.S Gusset Plate, straps, flats, sole plates etc., complete in roof truss work.	Providing & fixing bolts of various sizes including nuts & washers, complete in all areas.	Providing and fixing MS round hold-down bolts with nuts and washer plates, complete in all areas.	Steel work welded, in built up sections, trusses, frame-works including cutting, holsting, fixing and applying priming coat of red- in tubular sections. (BSTL Brand or equivalent)	Steel works	DS5a	085	D95	DW240	Providing & fixing in position with timber (of mixed conifer) in door frames including 30mm thick timber shutter, 100mm long hinges, 100mm long long latch, 100mm long tower bolts, 125mm long door handle, door stopper and 400mm long hold fasts as per drawing, etc., complete (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices).
	17-95	178.60		357.96	22,32	106.54	2,070.53		2.00	2,00	2.00	2.00	
	Mtr.	sq.m		χ oq	K	K.	8		Each	Each	Each	Each	
TO LIMITED	Mar William de de												

14.6	14.5	14.4	÷	14.2	4	14	3.1	13	12.4	12.3
Providing and laying Pre-Polished/ Polished Granite of approved quality and source in flooring using necessary cement bedding in cement mortar 1:4 upto 20 mm thick average cement slurry for fixing the tiles with required slopes, curing, cleaning, filling the joints with pigments of similar colour and at all levels with all leads and lifts etc. complete as per directions of site in-charge and as per pattern required, 25mm thick granite stone flooring over 20mm thick base of cement mortar 1:4.	Providing and laying vitrified tiles (NITCO Brand or equivalent) in skirting (300x150) on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing and laying vitrified tiles (NITCO Brand or equivalent) 10mm thick (600x600) in floorings laid on a bed of 20mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing and laying ceramic tiles (NITCO Brand or equivalent) of size 300x300mm in walls on 8mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing & fixing Anti-Skid tiles (NITCO Brand or equivalent), 300 x 150 mm in skirting, step risers, dado, finished with flush-pointing in white cement.	Providing and laying anti skid tiles (NITCO Brand or equivalent) of size 300x300mm in floors on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Flooring & Tiling Works	Providing, making & fixing woodwork dressed in traditional comices, kaws,zhu and other frames complete as per standard design in Mixed Conifer, including providing and fixing pre-laminated partical board, applying wood preservative and traditional painting (sumdang) on exposed surfaces with all necessary fittings and fixtures.	Wood Work	Providing & fixing 180mm over all semi-circular plain PVC gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes.	per sq.cm) rain water pipes including jointing with seal ring leaving 10mm gap for thermal expansion- complete - 90mm dia.
6,32	11.60	78.50	24.66	19.10	19.52		1.00		35.90	8.20
	m.ps	sq.m	sq.m	m.ps	sq.m		Each.		Mtr.	Mtr.
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Providing and lay Providing and lay Providing and lay Acrylic washable work, including c High gloss synth work, two coats External Works Providing & fixi complete (exclus Synthetic ename coats on new wo Providing & fixi cierestory winds external ceiling) linin frame-Eaves Bos Providing & fix wall/ceiling) linin frame-Eaves Bos
Providing and laying 15mm thick cement plaster in cement mortar 1:4 in inside wail. Acrylic washable distemper (SWAGAT Brand or equivalent), two coats on new work, including cement primer coat- inside wail and ceiling. High gloss synthetic enamel (SWAGAT Brand or equivalent), two coats on new work, two coats on new work - For Eaves Board. External Works Providing & laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:5, 20mm aggregates, laid over 75mm thick layer of compacted gravel. Providing & fixing Plywood lining with necessary nails etc. including beading coats on new work - for plywood lining. Synthetic enamel (SWAGAT Brand or equivalent), for steel & wood work, two coats on new work - for plywood lining. Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed (frames for the external ceiling) lining with necessary nails/screws etc. complete, excluding the cost of frame - Eaves Board. Providing & fixing 12mm thick bison panel (pre-laminated both sides for the external ceiling) mixed conifer.
and laying 15mm thick cement plaster in coment mortar 1:4 in inside wail. and laying 12mm thick cement plaster in cement mortar 1:4 in ceiling. ashable distemper (SWAGAT Brand or equivalent), two coats on new luding cement primer coat - Inside wail and ceiling. ss synthetic enamel (SWAGAT Brand or equivalent) for steel & wood o coats on new work - For Eaves Board. Works & laying 50mm thick Plinth Protection and grouted with fine sand mix well rammed, finishing the top smooth - With cement concrete 1:3:5, gregates, laid over 75mm thick layer of compacted gravel. & fixing Plywood lining with necessary nails etc. including beading (excluding cost of frame) 6 mm, commercial. cenamel (SWAGAT Brand or equivalent), for steel & wood work, two new work - for plywood lining. & fixing in position dressed wood work in frames of doors, windows, y windows and other frames, wrought and framed (frames for the ceiling) - Mixed Conifer. & fixing 12mm thick bison panel (pre-laminated both sides for
Providing and laying 15mm thick cement plaster in coment mortar 1:4 in inside wail. Providing and laying 12mm thick cement plaster in cement mortar 1:4 in ceiling. Acrylic washable distemper (SWAGAT Brand or equivalent), two coats on new work, including cement primer coat - Inside wail and ceiling. High gloss synthetic enamel (SWAGAT Brand or equivalent) for steel & wood work, two coats on new work - For Eaves Board. External Works External Works External work - For Eaves Board. External work - For Eaves
and laying and laying ashable dis luding ceme ss synthetic o coats on n o coats on n works & laying 5 well ramm gregates, la & fixing 1 enamel (S
roviding and laying 15mm thick cement plaster in cernoviding and laying 12mm thick cement plaster in cernoviding and laying 12mm thick cement plaster in cercrylic washable distemper (SWAGAT Brand or equipment, including cement primer coat - Inside wail and certain gloss synthetic ename! (SWAGAT Brand or equipment, two coats on new work - For Eaves Board. **External Works** **Extern
roviding and laying 15mm thick cement plaster in cemerating and laying 15mm thick cement plaster in centroviding and laying 12mm thick cement plaster in centrylic washable distemper (SWAGAT Brand or equipment, including cement primer coat - Inside wail and centroviding synthetic enamel (SWAGAT Brand or equipment, two coats on new work - For Eaves Board. **External Works** **Externa
roviding and laying 15mm thick cement plaster in cerroviding and laying 12mm thick cement plaster in cerceylic washable distemper (SWAGAT Brand or equipment, including cement primer coat - Inside wail and ceigh gloss synthetic enamel (SWAGAT Brand or equork, two coats on new work - For Eaves Board.
roviding and laying 15mm thick cement plaster in cemeroviding and laying 12mm thick cement plaster in cerecylic washable distemper (SWAGAT Brand or equiph gloss synthetic enamel ena
roviding and laying 15mm thick cement plaster in cemeroviding and laying 12mm thick cement plaster in cerecivities washable distemper (SWAGAT Brand or equivork, including cement primer coat - Inside wail and ce
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roviding and laying 15mm thick cement plaster in cem
inishing

17.15	17.14	17.13	17.12	17.11	17.10	17.9	17.8	17.7	17.6	17.5	17.4	17.3
Providing & fixing C.P Brass pillar-cock -15mm, standard, с.р клоb. (Jaquar Brand or equivalent)	Providing & fixing Kitchen Sinks including all connections and fittings, Stainless steel, 580 x 480 x 175 mm, single bowl. (SIMPOLA Brand or equivalent)	Providing & fixing C.P. brass mixers, 15mm ,For wall, non-telephonic type. (Jaquar Brand or equivalent)	Providing & fixing C.P. Brass shower fittings, Shower with revolving joint, 15mm. (Jaquar Brand or equivalent)	Providing & fixing angle valve, 20mm dia. (Jaquar Brand or equivalent)	Providing & fixing brass full way valve with wheel - 32mm.	Providing & Fixing toilet paper holder with necessary fittings. (C.P. brass). (Jaquar Brand or equivalent)	Providing & Fixing superior soap dish- including all necessary fixtures and fittings. including brackets, wooden cleats, c.p. brass screws.	Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats.	Providing & fixing Indian-type vitreous china w.c squatting pan, including 100 mm H.C.I P or S trap, 10 lit low level vitreous china cistern & fittings, repair walls, 580mm, colour Orissa-model.(SIMPOLO Brand or equivalent)	Providing & fixing pedestals for basins, white vitreous china, recessed back for pipes and necessary fittings. (SIMPOLO Brand or equivalent)	Providing & fixing white vitreous china wash basin, including C.I brackets, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & union, repair walls- Flat back wash basin 630x450mm with single 15mm c.p. brass pillar taps. (SIMPOLO Brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN-16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wall complete as per direction of Engineer-in- Charge 20mm. (FUSION Brand or equivalent)
2.00	2.00	2.00	2.00	6.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	14-59
Each	Each	Each	Each	Each	Each	Each	Each	Each	Each.	Each	Each.	Mtr.
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providing & fixing C.P. towel rail 600 x 20mm with c.p brass brackets fixed to wooden cleats. (Jaquar Brand or equivalent) Providing & fixing stop cock - 32mm dia. 2.00 Each providing & fixing 2000 litres. plastic tank including all accessories complete. (RABIEN Brand or equivalent) Constructing Brick masonry valve chamber in cement mortar 1:4, reinforced cement concrete top siab with 1:224 (1 cement a sand: 4 graded crushed rock 40mm nominal size aggregates), foundation concrete 1:48 (1 cement 4 sand: 8 graded crushed rock 40mm nominal size aggregates), town plaster in cement mortar 1:3 finished, inside dimension 600 x 600mm & 400mm deep including C.I. (cover & frame (weight >38 kg). Sewerage Works Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) -50mm. Providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding the cost of providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding 15 graded trenching, refilling & thrust block) -10mm. Providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding 25 graded trenching, refilling & thrust block) -160mm. Providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding 25 graded trenching, refilling & thrust block) -160mm. Providing & fixing P.V.C door bend -75mm Dia. Providing & fixing P.V.C plain bend -75mm niet & 75mm outlet: Providing & fixing P.V.C plain bend -75mm. Providing & fixing P.V.C plain bend -75mm. Providing & fixing P.V.C plain bend -75mm.	18.9	18.8	18.7	18.6	18.5	18.4	18.3	18.2	16.1	30	17.2	17.19	17.18	17.17	17.16
	8	100 × 100		Providing & fixing P.V.C Nahani Trap - 110mm inlet & 75mm outlet.	& laying H.D.P.E Pipes, 4 PN, including H.D.P.E, refilling & thrust block) - 160mm.	& laying H.D.P.E Pipes, 4 PN, including H.D.P.E, refilling & thrust block) - 110mm.	& laying , refilling &	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 75 mm dia.	P.V.C soil waste and vent pipes, single or double omplete (excluding the cost of PVC fittings) -50mm.	Sewerage Works	Constructing Brick masonry valve chamber in cement mortar 1:4, reinforced cement concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), foundation concrete 1:4:8 (1 cement: 4 sand: 8 graded crushed rock 40mm nominal size aggregates), 12mm plaster in cement mortar 1:3 finished, inside dimension 600 x 600mm & 400mm deep including C.I. cover & frame (weight >38 kg).		Providing & fixing connecting hose in wash basin or kitchen sink.	Providing & fixing stop cock - 32mm dia.	Providing & fixing C.P. towel rail 600 x 20mm with c.p brass brackets fixed to wooden cleats. (Jaquar Brand or equivalent)
	2.00	4.00	4.00	4.00	35.85	2,00	4.00	9.80	7.43	11/4	1.00	1.00	6.00	2.00	2.00
					100								_	-	
		-		-	-	-			-	-		1	-	-	

	1.2.2	1.2.1	1 12	1.1.3	1.1.2	1.1.1	- 5	-	SI. No.	'n	Total i	-	18.10
		Medium point	Providing & Wiring for 5/6 pin, 6/16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent)in recessed HDPE pipe with providing and fixing 5/6 pin, 6/16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment)	Long point	Medium point	Short Point	Providing & Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe with 6A modular type switch, MS boxes including connections, painting, testing and commissioning etc. as required (Legrand/ schneider make or equipment)	WIRING -	Description	CARETAKER & DRIVER'S QUARTER (ELECTRICAL)	Total in Words;		Constructing Brick masonry interception chamber in cement mortar 1:5, reinforced cement concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), foundation concrete 1:4:8 (1 cement: 4 sand: 8 graded crushed rock 40mm nominal size aggregates), 12mm plaster in cement mortar 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), neatly finished complete, Inside dimension 900 x 800mm & 450mm deep including C.I. cover & frame (weight >38 kg) - Interception pit.
Page 23 of 84	19100	6.00	grade, t)in outiet and	2.00	26.00	2.00	h 1.5 Havels or es		Quantity				einforced shed rock 4 sand: 8 n cement nannels in minal size 8 450mm
	Point	Point		Point	Point	Point			Unit			Total	Each
									Figure			for CARETAKER	
									Rate (Nu.) Word			Total for CARETAKER AND DRIVER'S QUARTER	
				4=					Amount (Nu.)			7	

32	ų.	w	2.4	2.3	2.2	2.1.3	2.1.2	2.1.1	2.1	2	15		ಪ
Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required(BSB Approved or equivalent Make),;-32A	Supplying of pre-fabricated MS busbar chamber with copper busbar complete with all accessories etc. as required(BSB Approved or equivalent Make), ; -4 strips, 450mm bar, 100A	CONTROL SWITCHGEAR & BUSBAR	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as required; - 1200mm sweep	Supply, Installation and commissioning of single phase energy meter of suitable size after consulting BPC complete as required.	Supplying of prewired call bell 250 volt A.C with base, terminal block and all accessories complete; - Gong bell assembly	Cat No. LED Up-Down Wall Light(Indoor)/Code-688576,6W	Cat No. LED Surface Ceiling Light(Round)/Code-650024,6W	Cat No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPCSS, 20W	Supplying of light fittings complete set with all accessories as required, with lamp (Philips/Havells/HPL/Vinay or Equivalent).	FITTINGS AND ACCESSORIES	Providing & Wiring for sub-main with 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections including connections, painting, testing and commissioning etc. as required (Legrand/ Schneider make or equipment), ; 2x16 sq.mm cu cable	Providing & Wiring for lighting circuit and lighting point with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment); - 2x2.5 sq.mm	Providing & Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning letc. as required(Legrand/ Schneider make or equipment); -2X4 sq.mm
1.00	1.00		6.00	2.00	2.00	4.00	5.00	10,00			38.00	58.00	14,00
Each	Each :		Each	Job	Each	Each	Each	Each			Mtr.	Mtr.	Mtr.
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4-3 in	4-2 SI	4.1	4 E	3-7 a	3.6 c	3.5 a	3.4 10	3-3-1 20A	3-3-1 10A	3-3 S
Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVCinsulated copper conductor,; - 1.5 sq.mm single core cable 1.1 KV grade	Installation, testing and commissioning of prewired fluorescent fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor, ; - 1.5 sq.mm single core cable 1.1 KV grade	Erection of all indoor/outdoor surface type wall bracket (single or double)/ surface ceiling fittings GLS lamps/ bulk head GLS lamp / all types call bell / all type picture or mirror lighting luminiaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor,; - 1.5 sq.mm single core cable 1.1 KV grade	ERECTION /INSTALLATION	Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution board) locking arrangement etc. as required	Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required(BSB Approved or equivalent Make),; - 12 way	Supply of miniature circuit breaker (MCB) double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required (BSB Approved or equivalent Make); - 63A	Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity 100mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required(BSB Approved or equivalentMake), ; - 25A	A	A	all accessories suitable to fix on a din-bar etc. as required(BSB Approved or equivalent Make)
6.00	10.00	12.00		1.00	2.00	2.00	2.00	18.00	2.00	di
Each	Each	Each		Set	Each	Each	Each	Each	Each	
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	6.2	6.1	0	52	5	4.8	4.7	4.6	4-5	4.4
	Supplying of heavy duty brass single compression gland for 4- Core 1.1KV grade PVC insulated and sheathed Copper/ Aluminium conductor armoured/un-armoured power cables; - 25mm dia, 10sq.mm	Supplying of 4- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables, ; - 10 sq.mm	POWER CABLE	Provide and install earthing with GEE slab 4' x 1' x 2" -8 nos connected in series, including 25x4mm GI strip running upto DBs. Manufactured by Druk-Care GEE slab earthing system at Jimena, Thimphu or equivalent. For installation- visit website: www.drukcare.com	EARTHING	Installation, testing and commissioning of SPN DB (DIN type, horizontal/vertical) with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB DP 63A sensitivity 3c/10o/30omA and outgoing SP MCB 6/10/16A on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc. as required; - 10 way	Installation, testing and commissioning of prefabricated bus bar chamber with copper bus bar complete with all accessories including connections etc. as required; - 4 strips, 300/450mm length, 100A	Installation, testing and commissioning of four pole moulded case circuit breaker (DIN type) breaking capacity 16/25K complete with all accessories to accommodate on/in prefabricated MS surface/MS cubical control panel board including drilling holes, connections etc as required; -63A, 415V	Installation, testing and commissioning of SPN/DP miniature circuit breaker/ isolator DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required; - 50/63A	Installation, testing and commissioning of SP/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required,;-6/10/16/20A
	2.00 Each	150.00 Mtr.		1.00 Set		2.00 Each	1.00 Each	1.00 Each	2.00 Each	20.00 Each
(NA)										

over 2.00 Ea over 2.00 Ea gBox 1.00 Ea gBox 1.00 Ea ng. 1.00 Ea ng. 1.00 Ea ng. 1.00 Ea ng. 60.00 M	8 7.4 7.3 7.2 7.4 6.4 6.3	00	8.1	9 8.2	9.1	9.2	9.3
2.00 Ea 2.00 Ea 2.00 Ea 1.00 Ea 1.00 Ea 60.00 M	Laying of one number PVC insulated and sheathed power cable copper/aluminium, armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushing, protective covering and refilling the trenches etc. as required, ; - Above 6sq.mm to 25sq.mm installation, Testing and Commissioning of end termination with single/double compresion gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required, ; - 20/22/25mm dia TELEVISION Supplying and drawing coaxial cable, RG6 in recessed HDPE pipe including necessary cutting, connection, testing etc. as required. Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required.; - TV coaxial socket Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories.; - Supplying Television Terminal Cabinet (TTC)(SQCA Appd.)as required. Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required.; - 25mm Lighting Arrestor	Lighting Arrestor	25mm dia 900mm long copper tube four prong	ial base plate with	Providing and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, water pipe with excavation and refilling work including charcoal or coke and salt complete required as per standard earthing drawing - With copper earth plate 600x500x3mm.	Providing and drawing wire for loop earthing in exisiting surface/recessed PVC/MS/ steel conduit or cassing capping or wooden batten along with other wires as required - 2.032mm (14 SWG) copper wire.	Providing and laying earth connection from earth electrodes in 15mm dia. GI pipe from earth electrode as required as per guidance of standard earthing drawing with 4.06mm dia (85WG) copper wire.
M Se Ea M Ea M Ea	30.00		1.00	1.00	1.00	60.00	60.00
W. W						≥	≥
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C DOCTOR'S	DOCTOR'S QUARTER (CIVIL)					e
	QUARTER (CIVIL)					
_			-		Rate (Nu.)	
No. Item Description	ption	Quantity	Unit	Figure	Words	Amount (Nu.)
1 Clearing & Grubbing	Grubbing					200
Clearing ju	Clearing jungle including uprooting of vegetation & trees of girth <300mm & disposal within 50m of the site.	247.84	sq.m			
2 Earth work						d et
Excavation in found 2.1 depth >300mm incl 50m lead & 1.5m lift.	Excavation in foundation trenches or drains, width <1.5m, area <12 sq.m in plan, depth >300mm including dressing and ramming, disposal of surplus soil within 50m lead & 1.5m lift.					
2.1.1 a) All kinds of soil	of soil	65.57	cu.m			
2.1.2 b) All Kinds	b) All Kinds of Rock with or without blasting	65.57	Cu.m			
Filling of trenches, 2.2 compaction in layers 1.5m lifts.	Filling of trenches, sides of foundations, areas to be raised etc. including compaction in layers < 200mm using selected excavated earth within lead 50m & 1.5m lifts.	108.67	cu.m			
2-3 Providing a	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	13.89	cu.m			
3 Damp Proof Course	of Course					
100000	& laying 75mm thick sand bedding, including watering, ramming,	6.95	cu.m			
	and laying moisture barrier using plastic sheeting underlay -100 micro	137.68	m.ps			N
4 Stone Work						
4.1 Providing and laying hard stone.	nd laying dry hand packed stone soling/course aggregate filling with	28.91	cu.m			
4.2 Random Ru plinth.	Random Rubble Masonry with hard stone in cement mortar 1:4 in foundation and plinth.	47.08	cu.m			
5 Concrete v	Concrete work (excluding centering and shuttering)					
Providing a	Providing and laying in position plain cement concrete 1:2:4 (1 cement :2 sand :4					

9.2	9.1	9	8.2	00.1	00	7.1	7	6.3	6.2	6.1	6	5.3	5.2
Providing & laying concrete block brick in Foundation & Plinth in cement mortar 1:4 including superstructure above plinth level upto floor three level (including all lifts and heights) - 250mm & 150mm thick.	Providing & laying Coursed Rubble Masonry with hard stone hammer/machine-dressed in foundation & plinth (In cement mortar 1:4) including superstructure above plinth level upto floor three level (including all lifts and heights) - 400mm thick.	Coursed Rubble Masonry/Concrete Block Brick	Beams, Lintels, Slabs, Landings, Staircases, Walls etc. in superstructure with Phenol bonded ply shuttering.	Foundation and plinth.	Form work (Providing & fixing centering and shuttering (formwork), including strutting, prop	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. (PERFECT THERMEX TMT or equivalent)	Steel reinforcement (providing & fixing Including cutting, bending, binding and placing in pos	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in beams, lintels, slabs, staircase above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in columns, Pillars, posts above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm aggregate nominal size) excluding form work and reinforcement in foundation for footings and beams up to plinth.	RCC work (excluding form work and reinforcement)	Providing and laying in position plain cement concrete 1:3:6 (1 cement :3 sand :6 graded crushed rock 20 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Providing and laying in position plain cement concrete 1:3:6 (1 cement :3 sand :6 graded crushed rock 40 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.
37.66	28.19		159.76	56.05	ting, prop	5,835,10		17.10	0.94	10.69		4.63	7.20
cu.m	cu.m		sq.m	sq.m	ping et	₹	tion)	cu.m	cu.m	cu.m		cu.m	cu.m
TOHW & ST.					ping etc. and removal of formwork)								
LK.													
													4

10.3.5	10.3.4	10.3.3	10.3.2	10.3.1	10.3	10.2	10.1.2	10.1.1	10.1	10
D85a	D85	D95	D100	D130	Providing & fixing in position with timber (of mixed conifer) in door frames including 30mm thick timber shutter, 100mm long hinges, 100mm long L-drop latch, 100mm long tower bolts, 125mm long door handle, door stopper and 400mm long hold fasts as per drawing, etc, complete (Inclusive of traditional wooden comices, pink primer in woodworks and painting works of Sumdarig 'Rab' quality in traditional cornices).	Providing & fixing in position with timber (of mixed conifer) in window frames with window shutter including 6mm thick plain glass, 25mm diameter peimet & curtain rod, tower bolt, handle and hook of eye, all three of 100mm, 100mm long hinges and 400mm long hold fast as per drawing, etc, complete - (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices); - W95	W)60	W210	Providing & fixing in position with timber (of mixed conifer) in window frames with window shutter including 6mm thick plain glass, 25mm diameter pelmet & curtain rod, tower bolt, handle and hook of eye, all three of 100mm, 100mm long hinges and 400mm long hold fast as per drawing, etc complete - (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional comices).	Doors & Windows
2.00	2.00	3.00	1,00	1.00		3.00	1.00	5.00		
Each	Each	Each	Each	Each		Each	Each	Each		

	3.1 F	13 F	12.4 p	12.3 P	12:2 b	72.1 P O O P	12 F	11.4 P	11.3 P	11.2 P	11.1 h	#	10.4 p
or bousing completes	Providing & laying marble stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing a consister	Flooring & Tiling Works	Providing & fixing 180mm over all semi-circular plain G.I gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes.	Providing and fixing on wall face single socketed rigid PVC (Working Pressure 4kgf per sq.cm) rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion-complete - 90mm dia.	Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection - 25g. (CRIL or equivalent)	Providing & fixing 0.5mm thick pre-painted Al-Zn alloy coated Steel roofing sheets of 24G in natural finish, including bolts, hooks and nuts 8mm dia. with bitumen and G.I limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses of Colour Roof India Limited. (CRIL or equivalent)	Roofing	Providing, making and fixing, M.S Gusset Plate, straps, flats, sole plates etc., complete in roof truss work.	Providing & fixing bolts of various sizes including nuts & washers, complete in all areas.	Providing and fixing MS round hold-down bolts with nuts and washer plates, complete in all areas.	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting,-fixing and appl. priming coat of red- In tubular sections. (BSTL Brand or equivalent)	Steel works	and other frames complete as per standard design in Mixed Conifer, including providing and fixing pre-laminated partical board, applying wood preservative and traditional painting (sumdang) on exposed surfaces with all necessary fittings and fixtures.:-RWo1
1	11.23		87.95	18.42	56.57	167.16		479.16	29.76	168.68	3,635.71		1.00
1	sq.m		Mtr.	Mtr.	Mtr.	sq.m		Kg	Kg	Kg	8		Each

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15.3	15.2	5.1	úi	14.4	14.3	14.2	14.1	14	13.6	13.5	13.4	15.3	13.2
Synthetic enamei (SWAGAT Brand or equivalent), for steel & wood work, two coats on new work - for plywood lining.	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) 6 mm, commercial.	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.	External Works	High gloss synthetic enamel (SWAGAT Brand or equivalent) for steel & :vood work, two coats on new work - For Eaves Board.	Acrylic washable distemper (SWAGAT Brand or equivalent), two coats on new work, including cement primer coat in inside wall and ceiling.	Providing and laying 12mm thick cement plaster in cement mortar 1:4 in ceiling	Providing and laying 15mm thick cement plaster in cement mortar 1:4 - Inside wall.	Finishing	Providing and laying ceramic tiles (NITCO Brand or equivalent) of size 300x300mm in walls on 10mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing and laying anti skid tiles NITCO Brand or equivalent) of size 300x300mm in floors on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed (frames for MC flooring)-Mixed Conifer.	Providing & fixing Pre-Fabricated Flooring Profiles in mixed conifer including necessary screws etc. complete - 30mm thick.	Providing and laying vitrified tiles (NITCO Brand or equivalent) 10mm thick (600x600) in floorings laid on a bed of 20mm thick cement mortar of 1:3 finished with flush pointing in white cement.
SEAL SE	110.33	131.97		4,0.46	407.22	97.57	309.65		14.22	8.00	0.40	68.52	23.70
m.bs/	sq.m	m.ps		m.bs	sq.m	m.ps	sq.m		sq.m	sq.m	m.m	m.ps	m-bs
			•										

Page 32 of 84 Computation of St. Co.

16.8	16.7	16.6	16.5	15.4	16.3	16.2	16.1	16	15.5	15.4
Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats.	Providing & fixing European-type vitreous china w.c pedestal including couloured seat and lid with c.p brass hinges, 15 lit white vitreous china low level cistern, fittings, brackets, repair walls. (SIMPOLO Brand or equivalent)	Providing & fixing Kitchen Sinks including all connections and fittings, Stainless steel, 580 x 480 x 175 mm, single bowl. (SIMPOLO Brand or equivalent)	Providing & fixing white vitreous china wash basin, including C.I brackets, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & union, repair walls- Flat back wash basin 630x450mm with single 15mm c.p. brass pillar taps. (SIMPOLO Brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN-16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wall complete as per direction of Engineer-in- Charge 25mm. (FUSION Brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN-16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wall complete as per direction of Engineer-in- Charge 20mm. (FUSION Brand or equivalent)	Providing & laying G.I. pipes (PKM Brand or equivalent) including G.I. fittings (excluding trenching, refilling & thrust block) - 25mm.	Providing & laying G.I. pipes (PKM Brand or equivalent) including G.I. fittings (excluding trenching, refilling & thrust block) 32mm.	Plumbing Works	Providing & fixing 12mm thick bison panel (pre-laminated both sides for wall/ceiling) lining with necessary nails/screws etc. complete, excluding the cost of frame-Eaves Board.	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed (frames for the external ceiling)-Mixed Conifer.
2.00	2.00	1.00	2.00	32.42	8.63	32.42	11.08		112.50	0.39
Each	Each.	Each.	Each.	Mtr.	Mtr.	Mtr.	Mtr.		m.bs	cu.m
HMA PORTED A STA										

	17.2	17.1	17	16.19	16.18	16.17	16,16	16.15	16.14	16.13	16.12	16.11	16.10	16.9
Page 34 of 84	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 50mm.	Providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) -110mm.	Sewerage Works	Constructing Brick masonry valve chamber in cement mortar 1:4, reinforced cement concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), foundation concrete 1:4:8 (1 cement: 4 sand: 8 graded crushed rock 40mm nominal size aggregates), 12mm piaster in cement mortar 1:3 finished, Inside dimension 600 x 600mm & 400mm deep including C.1 cover & frame (weight >38 kg).	Providing and fixing bath tubs with fittings and accessories complete - Porcelain, white enamelled, with a pair of 20mm C.P pillar tap, 40mm C.P brass waste, 32mm C.P brass over flow, rubber plug, 40mm C.P trap etc. (SIMPOLO Brand or equivalent)	Providing & fixing 2000 liters plastic tank including all accessories complete. (RABTEN Brand or equivalent)	Providing & fixing connecting hose in wash basin or kitchen sink.	Providing & fixing c.p. Brass shower fittings, Shower with revolving joint, 15mm. (Jaquar Brand or equivalent)	Providing & fixing angle valve, 20mm dia. (Jaquar Brand or equivalent)	Providing & fixing stop cock, 32mm dia. (Jaquar Brand or equivalent)	Providing & fixing brass full way valve with wheel - 32mm.	Providing & Fixing c.p. toilet paper holder with necessary fittings. (Jaquar Brand or equivalent)	Providing & fixing c.p. towel rall 600 x 20mm with c.p brass brackets fixed to wooden cleats. (Jaquar Brand or equivalent)	Providing & Fixing soap dish- including all necessary fixtures and fittings including brackets, wooden cleats, c.p. brass screws.
	7.43	12.76		1.00	1.00	2.00	4.00	2.60	4.00	4.00	2.00	2.00	2,00	4.00
	Mtr.	Mtr.		Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each
THE PARTY OF THE P	OF SELECTION OF SE													

C. DOCTOR'S QUARTER (ELECTRICAL)
Description **
E P
Quantity
Rate (Nu.)

2.1.2	2.1.1	27	2 F	4	<u></u>	1.2.2	1.2.1	2 2 2 2 2 2	11.50	1.1.2	1,1,1	1
Cat No. LED Surface Ceiling Light(Round),'Code-650024,6W	Cat No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPCSS, 20W	Supplying of light fittings complete set with all accessories as required, with lamp (Havells/HPL/Vinay or Equivalent).	FITTINGS & ACCESSORIES	Providing & Wiring for lighting circuit and lighting point with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HOPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment), ; - 2x2.5 sq.mm	Providing & Wiring for points in excess length above long points with taky grade PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment), ; - 2x4 sc.mm	Long point	Medium point	Providing & Wiring for 5/6 pin, 6/16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe with providing and fixing 5/6 pin, 6/16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required (Legrand/Schneider make or equipment)	Long point	Medium point	Short Point	sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe with 6A modular type switch, MS boxes including connections, painting, testing and commissioning etc. as required (Legrand/ schneider make or equipment)
7.00	8.00			175.00	50.00	12.00	3,00		4.00	21.00	3.00	q
Each	Each			Mtr.	Mtr.	Point	Point		Point	Point	Point	
San Common Commo	DTOHOMA MITED*	Section of the second										
		,						,				

4	3.5	3.4	33	3.2.2	3.2.1	3.2	3.1	w	2.4.2	2.4.1	2.4	2.3	2.2	2.1.4	2.1.3
ERECTION /INSTALLATION	Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution board) locking arrangement etc. as required	Supply of TPN distribution board (DIN type, vertical) with arcylic door, 415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required (BSB Approved Make), ; - 6 way	Supply & Fixing of residual current circuit breaker (RCCB) 4 pole, sensitivity 30mA/100mA, 415 volt A.C complete with all accessories suitable to to fix on a dinbar etc. as required(BSB Approved Make), ; - 32 A	20A	10A	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required (BSB Approved Make)	Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required (BSB Approved Make), ; - 63A	CONTROL, SWITCHGEARS & BUSBAR	1400mm sweep	1200mm sweep	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as required	Supplying of prewired call bell 250 volt A.C with base, terminal block and complete with all accessories.; - Gong bell assembly	Supply, Installation and commissioning of three phase energy meter of suitable size after consulting BPC complete as required.	Cat No. LED Up-Down Wall Light(Outdoor)/Code-680701,5W	Cat No. LED Up-Down Wall Light(Indoor)/Code-688576,6W
(6)	ng the MCB DB Box (distribution board)	, vertical) with arcylic door, 415 volt A.C /Isolator/RCCB out going or incoming way	reaker (RCCB) 4 pole, sensitivity Il accessories suitable to to fix on a din- ;-32 A			tc. as required(BSB Approved Make)	eaker (MCCB) with electronic release, complete with all accessories etc. as				pm with all accessories such as down er and fan body etc. complete as	with base, terminal block and complete	three phase energy meter of suitable ired.	/Code-680701,5W	ode-688576,6W
9.	1000	1.00	1.00	15.00	3.00		1.00		1.00	5.00		1.00	1.00	1.00	5.00
	Set	Each	o Each	o Each	o Each		o Each		o Each	o Each		o Each	dor 0	o Each	o Each
	e hora														
6						-,10		-						10.E-	

20	6	954	5	4.6	4.5	4.4	4.3	4.2	4
Supplying of 4- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables,; - 10 sq.mm	PCWER CABLE	Provide and install earthing with GEE slab 4' x 1' x 2" -8 nos connected in series, including 25x4mm GI strip running upto DBs. Manufactured by Druk-Care GEE slab earthing system at Jimena, Thimphu or equivalent. For installation- visit website: www.drukcare.com	EARTHING	with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB FP 40/63A sensitivity 30/100/300m5 and outgoing SP MCB 6/10/16A on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc. as required, ; - 6way	Installation, testing and commissioning of four pole moulded case circuit breaker (DIN type) breaking capacity 16/25K complete with all accessories to accommodate onlin prefabricated MS surface/MS cubical control panel board including drilling holes, connections etc as required, ; - 63A, 415V	Installation, testing and commissioning of SP/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required,; - 6/10/16/20A	installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVCinsulated copper conductor; -1.5 sq.mm single core cable 1.1 KV grade	Installation, testing and commissioning of prewired fluorescent fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor, ; - 1.5 sq.mm single core cable 1.1 KV grade	ceiling fittings GLS lamps/ bulk head GLS lamp / all types call beil / all type picture or mirror lighting luminiaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor,; - 1.5 sq.mm single core cable 1.1 KV grade
75.00		1.00		1.00	1.00	15.00	5.00	8.00	14,00
Mtr.		Set		Each	Each	Each	Each	Each	Each
OHOLA ()	AL SHIP A OF								

8.2	8.4	00	7.5	7.4	7.3	7.2	7.1	7	6.4	6.3	6.2
GI tube with finial base plate with 85x6 mm cop	25mm dia 900mm long copper tube four prong	LIGHTING ARRESTOR	Providing and supplying of air Conditioning , Hita Cold including wiring of cables and asociated wo commissioning	Supplying and fixing of HDPE pipe on recessed in screws, bends, elbows, Tees, corners, etc. comp	Supply, Installation, Testing and commissioning including with all accessories.; - Supplying Televi Appd.) as required.	Supplying & fixing of socket/regulator on existin (recessed or surface) including necessary cutting required; - TV coaxial socket	Supplying and drawing coaxial cable, RG6 in rece necessary cutting, connection, testing etc. as re-	TELEVISION NETWORK	Installation, Testing and Commissioning of end to compresion gland for PVC insulated and sheathe cable of 1.1KV grade including connections etc. a	Laying of one number PVC insulated and sheath copper/aluminium, armoured/un-armoured 1.1KV the ground including excavation, sand cushing, the trenches etc. as required.; - Above 6sq.mm to	Supplying of heavy duty brass single compression gland for 4- Core 1.1KV grade PVC insulated and sheathed Copper/ Aluminium conductor armoured/un-armoured power cables.; - 25mm dia, 10sq.mm
per strip ,25mm dia,300mm long.		100	or equivalent 1.5 MT , Hot and orks such as painting , testing and	ncluding all accessories such as lete as required, ; - 25mm	Powder coated Telephone Tag Box sion Terminal Cabinet (TTC)(SQCA	g metal box with fibre sheet cover g, connection testing etc.as	essed HDPE pipe including quired.		ermination with single/double ed aluminium/ copper conductor s required, ; - 20/22/25mm dia	ed power cable single core to four core direct in protective covering and refilling o 25sq.mm	on gland for 4- Core 1.1KV grade conductor armoured/un-armoured
1.00	1.00	ř	2.00	45.00	1.00	4.00	60.00		2.00	75.00	2.00
o Each	o Each		o Each	Mtr	o Each	o Each	Mtr		o Each	o Mtr.	o Each
	GI tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long.	25mm dia 900mm long copper tube four prong 1.00 GI tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long. 1.00	25mm dia 900mm long copper tube four prong 1.00 GI tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long. 1.00	Providing and supplying of air Conditioning , Hitachi or equivalent 1.5 MT , Hot and Cold including wiring of cables and asociated works such as painting , testing and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required,; - 25mm Providing and supplying of air Conditioning, Hitachi or equivalent 1.5 MT, Hot and Cold including wiring of cables and asociated works such as painting, testing and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00 1.00	Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories.; - Supplying Television Terminal Cabinet (TTC)(SQCA Appd.) as required. Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required, ; - 25mm Providing and supplying of air Conditioning , Hitachi or equivalent 1.5 MT , Hot and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00 1.00	Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc.as required; - TV coaxial socket Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories; - Supplying Television Terminal Cabinet (TTC)(SQCA Appd.) as required. Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required, ; - 25mm Providing and supplying of air Conditioning, Hitachi or equivalent 1.5 MT, Hot and Cold including wiring of cables and asociated works such as painting, testing and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00 1.00	Supplying and drawing coaxial cable, RG6 in recessed HDPE pipe including necessary cutting, connection, testing etc. as required. Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc.as required.; - TV coaxial socket Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories; - Supplying Television Terminal Cabinet (TTC)(SQCA Appd.) as required. Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required.; - 25mm Providing and supplying of air Conditioning, Hitachi or equivalent 1.5 MT, Hot and Cold including wiring of cables and asociated works such as painting, testing and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00 1.00 1.00	Supplying and drawing coaxial cable, RG6 in recessed HDPE pipe including necessary cutting, connection, testing etc. as required. Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc.as required; - TV coaxial socket Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories; - Supplying Television Terminal Cabinet (TTC)(SQCA Appd.) as required. Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required, ; - 25mm Providing and supplying of air Conditioning, Hitachi or equivalent 1,5 MT, Hot and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00 1.00 1.00	Installation, Testing and Commissioning of end termination with single/double compresion gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required, ; - 20/22/25mm dia TELEVISION NETWORK Supplying and drawing coaxial cable, RG6 in recessed HDPE pipe including necessary cutting, connection, testing etc. as required. Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required. Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories; - Supplying Television Terminal Cabinet (TTC)(SQCA Appd.) as required. Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required, ; - 25mm Providing and supplying of air Conditioning, Hitachi or equivalent 1.5 MT, Hot and Cold including wiring of cables and asociated works such as painting, testing and commissioning LIGHTING ARRESTOR 25mm dia 900mm long copper tube four prong 1.00 1.00 Gl tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long.	Laying of one number PVC insulated and sheathed power cable copper/aluminium,armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushing, protective covering and refilling the trenches etc. as required.; - Above 6sq.mm to 25sq.mm linitallation, Testing and commissioning of end termination with single/double compression gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required, ; - 20/22/25mm dia TELEVISION NETWORK Supplying and drawing coaxial cable, RG6 in recessed HDPE pipe including necessary cutting, connection, testing etc. as required. Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc.as required; - TV coaxial socket Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required; - 25mm Providing and supplying of it Conditioning, Hitachi or equivalent 1.5 MT, Hot and cold including wiring of cables and asociated works such as painting, testing and commissioning LIGHTING ARRESTOR 25mm dia 90mm long copper tube four prong CI tube with finial base plate with 85x6 mm copper strip, 25mm dia, 300mm long.

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	Ľ	2.1.2	2.1.1	2.1	14	est -	-	VL No.		,	Total in		9.3	9.2	9.1
Page 40 of 84	Filling of trenches, sides of toundations, areas to be raised etc. including compaction in layers < 200mm using selected excavated earth within lead 50m 5.5m lift.	b) All Kinds of Rock with or without blasting	a) All kinds of soil	Excavation in foundation trenches or drains, width <1.5m, area <10 sq.m in pian, depth >300mm including dressing and ramming, disposal of surplus soil within 50m lead & 1.5m lift.	Earth work	Clearing jungle including uprooting of vegetation & trees of girth <300mm & disposal within 50m of the site.	Clearing & Grubbing	In the second and the			Total in Words;		Providing and laying earth connection from earth electrodes in 15mm dia. GI pipe from earth electrode as required as per guidance of standard earthing drawing with 4.06mm dia (85WG) copper wire.	Providing and drawing wire for loop earthing in existing surface/recessed PVC/MS/ steel conduit or cassing capping or wooden batten along with other wires as required - 2.032mm (14 SWG) copper wire.	Providing and fixing of earthing including all accessories, machinery enciosure, Calcover plate having locking arrangement, water pipe with excavation and refilling work including charcoal or coke and salt complete required as per standard earthing drawing - With copper earth plate 600x600x3mm.
*	42.50	53.04	53.04			243.20 sq.m		quantry					60.00	60.00	1.00
	cu.m	cu.m	Cu.m			m.ps		Ollin					Mtr	Mtr	Sets
ON TORO SHORE Y LIMIT	100 mg							Figure	R			Total for Doct			
Mortham	ED. TH							Words	Rate (Nu.)			Total for Doctor's Quarter (Electrical)			
								Amounther	Amount (Alice			cal)			

623	6.1	6	53	5.2	5.3	5	4.2	4	4	3.2	2	w	2.3
Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm nominal size aggregates) in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm nominal size aggregates) excluding form work and reinforcement in foundation for footings and beams up to plinth.	RCC work (excluding form work and reinforcement)	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Providing and laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Concrete work (excluding centering and shuttering)	Random Rubble Masonry with hard stone in cement mortar 1:4 in foundation and plinth. •	Providing and laying dry hand packed stone soling/course aggregate filling with hard stone.	Stone Work	Providing and laying moisture barrier using plastic sheeting underlay -100 micro metre.	Providing & laying 75mm thick sand bedding, including watering, ramming, dressing.	Damp Proof Course	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.
10.41	8.17		4.05	6.89	8.11		39.04	24.35		104-51	5.37		21.47 cu.m
E -	8.17 cu.m		cu.m	cu.m	cu.m		Cu.m	cu.m		sq.m	cu.m		cu.m
May by the party of the party o													

10	9.2	9.1	9	8.3	00 10	8.1	00	7.1	7	6.4	6.3
Doors & Windows	Providing & laying concrete block brick in Foundation & Plinth in cement mortar 1:4 including superstructure above plinth level upto floor three level (including all lifts and heights) - 250mm & 150mm thick.	Providing &laying Coursed Rubble Masonry with hard stone hammer/machine-diressed in foundation & plinth (In cement mortar 1:4) including superstructure above plinth level upto floor three level (including all lifts and heights) - 400mm thick.	Coursed Rubble Masonry/Concrete Block Brick	Beams, Lintels, Slabs, Landings, Staircases, Walls etc. in superstructure with Phenol bonded ply shuttering.	Columns, Pillars, posts, etc. in superstructure with Phenol bonded ply shuttering.	Foundation and plinth.	Form work (Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork)	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and piacing in position complete. (PERFECT THERMEX TMT or equivalent)	Steel reinforcement (providing & fixing Including cutting, bending, binding and placing in position)	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm nominal size aggregates) excluding form work and reinforcement in beams, lintels, slabs, staircase above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm nominal size aggregates) excluding form work and reinforcement in columns, Pillars, posts above plinth up to roof.
80449	15.71	43.06		191.50	15.75	34-59	ting, prop	5,527.87	ing in pos	10.41	1,38
	cu.m	G-W		m-bs	sq.m	m-bs (ping etc. an	₹ 6	ition)	cu.m	cu.m
							d removal of formwork)				

	12.1	12	11.4	11.3	11.2	11.2	=	10.2.2	10.2.1	10.2	10.1,2	10.1.1	10
	Providing & fixing o.5mm thick pre-painted Al-Zn alloy coated Steel roofing sheets of 24G in natural finish, including boits, hooks and nuts 8mm dia. with bitumen and G.I limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses of Colour Roof India Limited. (CRIL-or equivalent)	Roofing	Providing, making and fixing, M.S Gusset Plate, straps, flats, sole plates etc., complete in roof truss work.	Providing & fixing bolts of various sizes including nuts & washers, complete in all areas.	Providing and fixing MS round hold-down bolts with nuts and washer plates, complete in all areas.	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red- In tubular sections. (BSTL Brand or equivalent)	Steel works	D85	D100	Providing & fixing in position with timber (of mixed conifer) in door frames including 30mm thick timber shutter, 100mm long hinges, 100mm long L-drop latch, 100mm long tower bolts, 125mm long door handle, door stopper and 400mm long hold fasts as per drawing, etc, complete (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices).	W95	W175	Providing & fixing in position with timber (of mixed conifer) in window frames with window shutter including 6mm thick plain glass, 25mm diameter pelmet & curtain rod, towerbolt, handle and hook of eye, all three of 100mm, 100mm long hinges and 400mm long hold fast as per drawing, etc, complete - (Inclusive of traditional wooden cornices, pink primer in woodworks and painting works of Sumdang 'Rab' quality in traditional cornices).
APR. 5	120.12	1	275.25	10.42	43.15	1,308.56		2.00	3.00		6.00	2.00	3
	m.ps		Kg	Kg	X 00	₹ B		Each	Each		Each	Each	
18/18/18/18/18/18/18/18/18/18/18/18/18/1	NTBO # 172												

High gloss synthetic enamel (SWAGAT Brand o	Acrylic washable distemper (SWAGAT Brand or equivalent), two coats on new work, including cement primer coat in Inside wall and ceiling.	Froviding and laying 12mm thick cement plaster in cement mortar 1:4 in ceiling	Providing and laying 15mm thick cemen	Finishing	Providing and laying Pre-Polishe in flooring using necessary ceme average cement slurry for fixing filling the joints with pigments of lifts etc. complete as per direction.	Providing and laying ceramic t in walls on tomm thick cmen cement.	Providing and laying anti sk in floors on a bed of 12mm t white cement.	Flooring & Tiling Works	Providing & fixing 18on brackets, bolts, nuts, was of pipes.	Providing and fixing on wall face sing per sq.cm) rain water pipes including thermal expansion- complete -90mm.	Providing & fixing 600mr boits, hooks and nuts 8m 25g. (CRiL or equivalent)
or equivalent) for steel & wood	or equivalent), two coats on new vall and ceiling.	laster in cement mortar 1:4 in ceiling	Providing and laying 15mm thick cement plaster in cement mortar 1:4 in inside wall.		Providing and laying Pre-Polished/ Polished Granite of approved quality and source in flooring using necessary cement bedding in cement mortar 1:4 upto 20 mm thick average cement slurry for fixing the tiles with required slopes, curing, cleaning, filling the joints with pigments of similar colour and at all levels with all leads and lifts etc. complete as per directions of site in-charge and as per pattern required.	Providing and laying ceramic tiles (NITCO Brand or equivalent) of size 300x300mm in walls on 10mm thick cment mortar of 1:3 finished with flush pointing in white cement.	Providing and laying anti skid tiles (NITCO Brand or equivalent) of size 300x300mm in floors on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in white cement.		Providing & fixing 180mm over all semi-circular plain PVC gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes.	Providing and fixing on wall face single socketed rigid PVC (Working Pressure ¢kgf per sq.cm) rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion-complete-90mm.	Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection - 25g. (CRiL or equivalent)
20.33	218.97	106.62	112.34		8.01	8.73	64.63		89.80	15.00	13.65
m.ps	m.ps	m-bs	m.ps		m.bs	m.bs	m-bs		Mtr.	Mtr.	Mtr.
1000000000000000000000000000000000000											
-	20.33 sq.m	t), two coats on new 2:8.97 sq.m nt) for steel & wood 20.33 sq.m	new 2:8.97 sq.m	vall. 112.34 sq.m 106.62 sq.m new 218.97 sq.m	vail. 112.34 sq.m 106.62 sq.m new 218.97 sq.m	urce hick ling 8.01 sq.m and 1. 112.34 sq.m 106.62 sq.m new 2:8.97 sq.m	hite 8.73 sq.m hite 8.73 sq.m hick 8.01 sq.m and 112.34 sq.m and 106.62 sq.m new 2:8.97 sq.m	mm 64.63 sq.m hite 8.73 sq.m hick ling 8.01 sq.m and 12.34 sq.m lew 2:8.97 sq.m	ood 20.33 sq.m	ding	ding 89.80 Mtr. cost 89.80 Mtr. mm 64.63 sq.m hite 8.73 sq.m hitck 8.73 sq.m and 112.34 sq.m and 218.97 sq.m

16.2	16.1	16	15.6	15.5	15.4	15-3	15.2	. 51
Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN 16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings excluding trenching, refilling but including testing of joints complete as per direction of Engineer-in- Charge 25mm. (FUSION Brand or equivalent)	Providing & laying G.I. pipes (PKM Brand or equivalent) including G.I. fittings (excluding trenching, refilling & thrust block) - 32mm.	Plumbing Works	Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100 mm thick concrete bed 1:5:10 (1 cement: 5 sand: 10 graded crushed rock 40mm nominal size aggregates) and 25mm thick cement concrete 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 12 mm nominal size aggregates) for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete - 250mm x 300mm depth.	Providing & fixing 12mm thick bison panel (pre-laminated both sides for wall/celling) lining with necessary nails/screws etc. complete, excluding the cost of frame -Eaves Board.	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed (frames for the external ceiling)-Mixed Conifer.	Synthetic enamel (SWAGAT Brand or equivalent), for steel & wood work, two coats on new work - for plywood lining.	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) 6 mm, commercial.	including & laying 50mm thick right Protection and grouted with this said max including well rammed, finishing the top smooth - With cement concrete 1:3:6 (1 cement: 3 sand: 6 graded crushed rock 20mm nominal size aggregates), laid over 75mm thick layer of compacted gravel.
4.02	25.10		15.80	10.16	2.47	40.99	40.99	126.54
Mtr.	Mtr.		Mtr.	m-bs	cn.m	sq.m	sq.m	m-bs

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	17.4	17.3	17.2	17.1	17	16.9	16.8	16.7	16.6	16.5	16.4	16.3
	Providing & fixing P.V.C door bend - 75mm.	Providing & fixing P.V.C Nahani Trap - 110mm inlet & 75mm outlet	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of FVC fittings) - 75mm.	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 50mm.	Sewerage Works	Constructing Brick masonry valve chamber in cement mortar 1:4, reinforced cement concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20nm nominal size aggregates), foundation concrete 1:4:8 (1 cement: 4 sand: 8 graded crushed rock 40mm nominal size aggregates), 12mm plaster in cement mortar 1:3 finished, inside dimension 600 x 600mm & 400mm deep including C.I. cover & frame (weight >38 kg).	Providing & fixing 2000 litres plastic tank including all accessories complete. (RABTEN Brand or equivalent)	Providing & fixing connecting hose in wash basin or kitchen sink.	Providing & fixing angle valve, 20mm dia. (Jaquar Brand or equivalent)	Providing & fixing stop cock- 32mm dia. (Jaquar Brand or equivalent)	Providing & fixing Kitchen Sinks including all connections and fittings, Stainless, steel, 580 x 480 x 175 mm, single bowl. (SIMPOLO Brand or equivalent)	SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wall complete as per direction of Engineer-in-Charge 20mm. (FUSION Brand or equivalent)
	2.00	1.00	2.61	6.09		1.00	2.00	2.00	2.00	2.00	4.00	5.20
	Each	Each	Mtr.	Mtr.		Each	Each	Each	Each	Each	Each	Mtr.
Total for LAUNDRY & KITCHEN (Civil)												

Total i	Total in Words;				
D	LAUNDRY AND KITCHEN (ELECTRICAL)				
					Rate(Nu.)
SI.No	Description	Quantity	Unit	Figure	Word
-	WIRING.				
₫	Providing & Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe with 6A modular type switch, MS boxes including connections, painting, testing and commissioning etc. as required (Legrand/schneider make or equipment)				
1.1.2	Short Point	5.00	Point		
1.1.3	Medium point	10.00	Point		
1.1.4	Long point	2.00	Point		
15	Providing & Wiring for 5/6 pin, 6/16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent)in recessed HDPE pipe with providing and fixing 5/6 pin, 6/16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment),;-Long point	10.00	Point		
- 3	Providing & Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment), ; - 2x4 sqmm	56.00	Mtr.		
	Providing & Wiring for lighting circuit and lighting point with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment), ; - 2x2.5 sq.mm	54.00	Mtr.	Cay .	
N	FITTINGS & ACCESSORIES	100		0*	

(Havells/HPL/Vinay or Equivalent). Cat No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPCS5, 26W Cat No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPCS5, 26W Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down required as required as required as required fan body etc. complete as required (CONTROL, SWITCHGEARS & BUSBAR Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required (BSB Approved Make), 7: 32A Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required, 3: 25KA Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity roomA, 230 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming etc. as required, 7: 25KA Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming etc. as required, 7: 12 way Froviding and fixing of wooden frame structura appropriate with wire mesh daily approved by engineer in-charge for enclosing the MCB DB Box (distribution board Set DB Box (distribution Bo	No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPC55, 20W 9.00 No. LED Up-Down Wall Light(Outdoor)/Code-680701,6W Plying of celling fan 240 volt A.C. 1400 rpm with all accessories such as down sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as aired 3.00 TROL, SWITCHGEARS & BUSBAR Ply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with ceasories suitable to fix on a din-bar etc. as required(BSB Approved Make).; 32A Plying of panel moulded case circuit breaker (MCCB) with electronic release, sking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as irred(BSB Approved Make).; 32A Ply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity and, 230 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming as required,; 25A Ply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming as required,; 12 way 1.00	3.5	3,4	33	3.2	3.1.2	3.1.1	¥.	u	2.2.2	2.2.1	2.2	2.1.2	2.1.1	2.1
	Each Each Each Set Set	Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution solard) locking arrangement etc. as required	supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C. complete with all accessories without MCB/Isolator/RCCB out going or incoming stc. as required, ; 12 way	supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity oomA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. is required, ; - 25A	supplying of panel moulded case circuit breaker (MCCB) with electronic release, ireaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as equired(BSB Approved Make), ;- 32A	10A	oA .	supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with ill accessories suitable to fix on a din-bar etc. as required(BSB Approved Make)	CONTROL, SWITCHGEARS & BUSBAR	400mm sweep	200mm sweep	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down od, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as equired	at No. LED Up-Down Wall Light(Outdoor)/Code-680701,6W	at No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPCSS, 20W	(Havells/HPL/Vinay or Equivalent).
O10HV _a		Set				-				-	1			-	
5			Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution 1.00 Set board) locking arrangement etc. as required	Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C. complete with all accessories without MCB/Isolator/RCCB out going or incoming etc. as required, ; 12 way Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution 1.00 Set board) locking arrangement etc. as required	Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity 100mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. 250 as required, ; - 25A Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C 250 complete with all accessories without MCB/isolator/RCCB out going or incoming 250 etc. as required, ; 12 way 250 Providing and fixing of wooden frame structura appropriate with wire mesh duly 251 approved by engineer in-charge for enclosing the MCB DB Box (distribution 252 533 253 533 25	Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required(BSB Approved Make), ;- 32A Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity 100mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required, ;- 25A Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required, ;- 12 way Providing and fixing of wooden frame structura appropriate with wire mesh daily approved by engineer in-charge for enclosing the MCB DB Box (distribution 5et 350 poly) is the same board) locking arrangement etc. as required	Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required(BSB Approved Make), ;-32A Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity 100mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. 1.00 Each as required, ;-25A Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming etc. as required, ;12 way Providing and fixing of wooden frame structura appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution 1.00 Set	20A 1.00 Each Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required(BSB Approved Make), ;- 32A Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity 100mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required, ;- 25A Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/Isolator/RCCB out going or incoming etc. as required, ; 12 way Providing and fixing of wooden frame structur appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution 1.00 Set 1.00 Se	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required(BSB Approved Make) 10A 10A 10A 100 Each 1000 Each	CONTROL, SWITCHGEARS & BUSBAR Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required(BSB Approved Make) 1.00 Each 20A 20A Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required(BSB Approved Make), ;- 32A Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity roomA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. 3. Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required, ; 12 way Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution board) locking arrangement etc. as required 1.00 Each 1.00 Each 1.00 Each 1.00 Each 1.00 Each 1.00 Each 2.00 Each 3.00 Each 3.00 Each 3.00 Each 4.00 Each 4.00 Each 5.00 Each 5.00 Each 5.00 Each 6.00 Eac	CONTROL, SWITCHGEARS & BUSBAR Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required(BSB Approved Make) 10A 10A 10A 10A 10B 10B 10B 10B	100mm sweep 1400mm sweep 2.00 Each CONTROL, SWITCHGEARS & BUSBAR Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required(BSB Approved Make) 10A 20A 10A 20A 10.00 Each 20A 20A 10.00 Each 20A 20A Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required(BSB Approved Make), ;- 32A Supply & Fixing of residual current circuit breaker (RCCB) double pole, sensitivity 100mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required, ;- 25A Supply of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCE/Isolator/RCCB out going or incoming etc. as required, ;- 12 way Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution 1.00 Set 1.00	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as required 1200mm sweep 1200m sach 1200m sach 1200m sach 1200m sach 1200mm sweep 1200ms sach 1	Cat No. LED Up-Down Wall Light(Outdoor)/Code-680701,6W Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as required 1200mm sweep 1400mm	Cat No./LUMILINE Plus LED Tube LUMILINEPLUSBS20WLED865SPCSS, 20W 9.00 Each Cat No. LED Up-Down Wall Light(Outdoor)/Code-68070r,6W Supplying of ceiling fan 240 volt A.C (400 rpm with all accessories such as down root), sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as 1200mm sweep 1200ms

6.1	6	5.1	, VI	4.6	4.5	4.4	43	42	4
Supplying of 2- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables, ; -10 sq.mm	POWER CABLE	Provide and install earthing with GEE slab 4' x 1' x 2"-8 nos connected in series, including 25x4mm GI strip running upto DBs. Manufactured by Druk-Care GEE slab earthing system at Jimena, Thimphu or equivalent. For installation-visit website: www.drukcare.com	EARTHING	Installation, testing and commissioning of SPN DB (DIN type, horizontal/vertical) with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB DP 63A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16A on/in prefabricated MS surface/MS cubical control panel board including drilling holes, connections etc. as required, ; - 12way	Installation, testing and commissioning of SPN/DP miniature circuit breaker/ isolator DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required, ; - 50/63A	Installation, testing and commissioning of SP/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required, ; - 6/10/16/20A	Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVC insulated copper conductor, ; - 1.5 sq.mm single core cable 1.1 KV grade	Installation, testing and commissioning of prewired fluorescent fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor,; - 1.5 sq.mm single core cable 1.1 KV grade	Erection of all indoor/outdoor surface type wall bracket (single on double)/ surface ceiling fittings GLS lamps/ bulk head GLS lamp / all types call bell / all type picture or mirror lighting luminiaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor,;-1.5 sq.mm single core cable 1.1 KV grade
95.00		1.00		1.00	1.00	11.00	3.00	9.00	3.00
Mtr.		Set		Each	Each	Each	Each	Each	Each
STORES STORES	Walter State of the Party of th								
	251								

Amount (No.	Rate (Nu.)	Competitive 1 that	ER (CIVIL)	STAFF QUARTER (CIVIL)	77
			CTOHOLA MITTED*	Total in Words;	ctal in
	Total for Laundry & Kitchen (Electrical)		The state of the s		
		66.00 Mtr.	Providing and laying earth connection from earth electrodes in 15mm dia. Gr pipe from earth electrode as required as per guidance of standard earthing drawing with 4.05mm dia (8SWG) copper wire.	Providing and from earth el- with 4.06mm	ů.
		60.00 Mtr.	Providing and drawing wire for loop earthing in exisiting surface/recessed PVC/MS/ steel conduit or cassing capping or wooden batten along with other wires as required - 2.032mm (14 SWG) copper wire.	Providing and steel condult required - 2.0	00 iv
		1.00 Sets	Providing and fixing of earthing including ali accessories, machinery enciosure, C.i cover plate having locking arrangement, water pipe with excavation and refilling work including charcoal or coke and salt complete required as per standard earthing drawing - With copper earth plate 600x600x3mm.	Providing and cover plate hi work includin earthing drav	5
			P	Earthing for LA	00
		1.00 Each	GI tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long.	GI tube with f	7.2
		1.00 Each	25mm dia 900mm long copper tube four prong	25mm dia 900	7.1
			ESTOR	LIGHTING ARRESTOR	7
		2.00 Each	installation, Testing and Commissioning of end termination with single/double compression gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required, ; - 20/22/25mm dia	installation, T compresion g cable of 1.1KV	6.4
		95.00 Mtr.	Laying of one number PVC insulated and sheathed power cable copper/aluminium, armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushing, protective covering and refilling the trenches etc. as required, ; - Above 6sq.mm to 25sq.mm	Laying of one copper/alumi the ground in the trenches	6.
		2.00 Each	Supplying of heavy duty brass single compression gland for 2- Core 1.1KV grade PVC insulated and sheathed Copper/ Aluminium conductor armoured/un-armoured power cables, ; - 25mm dia, 10sq.mm	Supplying of insulated and power cables	6.2

1. Clearing & Crubbing 1.1 disposal within 50m of the site. 2. Earth work Eccryation in foundation trenches or drains, width <15m, area <10 sq.m in plan, 2.1 depth >300mm including dressing and ramming, disposal of surplus soil within 50m lead & 15m lift. 2.1.1 a) All kinds of soil. 2.1.2 b) All kinds of Rock with or without blasting. Filling of trenches, sides of foundations, areas to be raised etc. including compaction in layers < 200mm using selected excavated earth within lead 50m & 244.15 cu.m 1.5m lift. 2.1.2 b) All kinds of Rock with or without blasting. Providing and laying dry earth bedding, including consolidating each deposited 19.49 cu.m 2.5m lift. 2.1.2 b) All kinds of Rock with or without blasting. 2.1.3 layer by watering, ramming and dressing. 3.1 Providing and laying 75mm thick sand bedding, including watering, ramming. 3.2 metre. 3.3 Providing and laying moisture barrier using plastic sheeting underlay -100 micro 127.91 sq.m 3.4 Providing and laying dry hand packed stone soling/course aggregate filling with 39.69 cu.m 3.5 Concrete work (excluding centering and shuttering) 5. Concrete work (excluding centering and shuttering) 5. Concrete work (excluding centering and shuttering) 6. Signated crushed rock 40mm nominal size aggregates) excluding the cost of 1055 cu.m. 6. Signated crushed rock 40mm nominal size aggregates) excluding the cost of 1055 cu.m.
Im & 213.79 sq.m plan, vithin 154.04 cu.m 154.04 cu.m 154.04 cu.m 154.04 cu.m 154.04 cu.m 154.05 cu.m 154.05 cu.m 154.06 cu.m 154.06 cu.m 127.91 sq.m 1 and 4.00 cu.m 10.55 cu.m 10.55 cu.m
cu.m cu.m cu.m sq.m
B)
5)

9	00	8	6.1	C)	7.1	7	6.3	6.2	6.1	01	5-3	5.2
Coursed Rubble Masonry/Concrete Block Brick block	Beams, Lintels, Slabs, Landings, Staircases, Walls etc. in superstructure with Phenol bonded ply shuttering.	Columns, Pillars. posts, etc. in superstructure with Phenol bonded ply shuttering.	Foundation and plinth.	Form work (Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork)	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. (PERFECT THERMEX TMT or equivalent)	Steel reinforcement (providing & fixing including autting, bending, binding and placing in position)	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm nominal size aggregates) excluding form work and reinforcement in beams, lintels, slabs, staircase above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock 20mm nominal size aggregates) excluding form work and reinforcement in columns, Pillars, posts above plinth up to roof.	Providing and laying reinforced cement concrete 1:1.5:3 (1 cement: 1.5 sand: 3 graded crushed rock zomm nominal size aggregates) excluding form work and reinforcement in foundation for footings and beams up to plinth.	RCC work (excluding form work and reinforcement)	Providing and laying in position plain cement concrete 1:3:6 (1 cement: 3 sand: 6 graded crushed rock 20mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	Providing and laying in position plain cement concrete 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plin*h level.
	503.71	166.32	157.10	tting, prop	17,154.00	cing in posi	65.33	15.77	38.72		6.40	12.79
いる時か	sq.m	m.ps	mrbs	ping etc.	₩.	tion)	m.m2	cu.m	cu.m		cu.m	cu.m
3/				ind removal of								

10.2.3	10.2.2	10.2.1	10.2	10.1.7	10.1.6	10.1.5	10.1.4	10.1.3	10.1.2	10.1.1	70,1	10	9.2	9.1
2.3 085	2.2 095													
5	5	D110	Providing & fixing in position doors in timber of mixed conifer including, timber shutter with all fittings & fixtures & hold fasts as per drawing (complete)with timber as the frame. (Inclusive of traditional cornices and all types of paintings).	Balcony Rabsey	RW02	RW01	W175	W95	DW251	W243	Providing & fixing in position with timber in mixed conifer with aluminium windows including Shutter 6mm thick plain glass, Pelmet & curtain rod, fittings & fixtures & hold fasts as per drawing complete - synthetic enamel paint on new work of steel.(Inclusive of traditional wooden cornices and painting works).	Doors & Windows	Providing & laying concrete block brick in Foundation & Plinth in cement mortar 1:4 including superstructure above plinth level upto floor three level (including all lifts and heights) - 250mm & 150mm thick.	Providing &laying Coursed Rubble Masonry with nard stone namer/machine dressed in foundation & plinth (In cement mortar 1:4) including superstructure above plinth level upto floor three level (including all lifts and heights) - 400mm thk.
4.00	8.00	4.00		1.00	2.00	4.00	4.00	4.00	4.00	10.00			36.25	120.20
Each	Each	Each		Each	Each	Each	Each	Each	Each	Each			cu.m	cu.m
0/4 dy 2/2 c 000 dy														

25	13	12.4	12-3	12.2	12.1	12	11.4	71.3	11.2	11.1	=	10.2.4
Providing and laying anti skid tiles (NITCO Brand or equivalent) of size 300x300mm in floors on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in 12.28 white cement.	Flooring & Tiling Works	Providing & fixing 180mm over all semi-circular plain PVC gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes.	Providing and fixing on wall face single socketed rigid PVC (Working Pressure 4kgf per sq.cm) rain water pipes including jointing with seal ring leaving to mm gap for thermal expansion- complete -90mm.	Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection - 25g. (CRiL or equivalent)	Providing & fixing 0.5mm thick pre-painted Al-Zn alloy coated Steel roofing sheets of 24G in natural finish, including bolts, hooks and nuts 8mm dia. with bitumen and C.I. limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses of Colour Roof India Limited. (CRIL or equivalent)	Roofing	Providing, making and fixing, M.S Gusset Flate, straps, flats, sole plates etc., complete in roof truss work.	Providing & fixing bolts of various sizes including nuts & washers, complete in all areas.	Providing and fixing MS round hold-down bolts with nuts and washer plates, complete in all areas.	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red- In tubular sections. (BSTL Brand or equivalent)	Steel works	D85a
17.28		57.98	17.38	23.00	293.78		192.61	17.48	48.83	2,081.39		4.00
lurbs		Mtr.	Mtr.	Mtr.	m.ps		Kg.	X ₀	X ₀₀	₩.		Each

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-	, j	, çı	15	14-5	14.4	14-3	14.2	14.1	14	13.5	13.4	13-3	13.2
	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) 6 mm, commercial.	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.	External Works	High gloss synthetic enamel (SWAGAT Brand or equivalent) for steel & wood work, two coats on new work - For Eaves Board.	Acrylic washable distemper (SWAGAT Brand or equivalent), two coats on new work, including cement primer coat in inside wall and ceiling.	Providing & laying 20mm thick cement plaster in cement mortar 1:4 staircase and ramp.	Providing and laying 12mm thick cement plaster in cement mortar 1:4 in ceiling.	Providing and laying 15mm thick cement plaster in cement mortar 1:4 in Inside wall.	Finishing	Providing and laying vitrified tiles (NITCO Brand or equivalent) in skirting(300x150) on a bed of 12mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing and laying vitrified tiles (NITCO Brand or equivalent) 10mm thick (600x600) in floorings laid on a bed of 20mm thick cement mortar of 1:3 finished with flush pointing in white cement.	Providing & laying marble stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete ,20mm thick coloured marble - Including Skirting.	Providing and laying ceramic tiles (NITCO Brand or equivalent) of size 300x300mm in walls on 10mm thick cement mortar of 1:3 finished with flush pointing in white cement.
4.45	86.94	109.56		35,63	955-93	9.50	235.86	720.07		20.38	199.14	16.17	50.27
1	m.bs	sq.m		m.ps 8	m.ps 8	sq.m	sq.m	7 sq.m		m.ps	m-bs t	m.ps /	rq.m
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		25000											
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								L.,					

16.7	16.6	16.5	16.4	16.3	16.2	15.1	16	5 .4	15-3
Providing & fixing c.p. Brass shower fittings, Shower with revolving joint -15mm. (Jaquar Brand or equivalent)	Providing & Fixing c.p tollet paper holder with necessary fittings. (Jaquar Brand or equivalent)	Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats.	Providing & fixing Indian-type vitreous china w.c squatting pan, including too mm H.C.I P or S trap, to lit low level vitreous china cistern & fittings, repair walls. 500mm, white. (SIMPOLO Brand or equivalent)	C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & un on, repair walis- Flat back wash basin 630x450mm with single 15mm c.p. brass pillar taps. (SIMPOLO Brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN-16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings including fixing pipe with clamps at 1.0m spacing. This includes testing of joints, cutting chases and making good the wail complete as per direction of Engineer-in-Charge -20mm. (FUSION Brand or equivalent)	Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN 16 pipes, SDR 7.4 UV Stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings excluding trenching, refilling but including testing of joints complete as per direction of Engineer-in- Charge, -25mm. (FUSION Brand or equivalent)	Plumbing work	Providing & fixing 12mm thick bison panel (pre-laminated both sides for wall/ceiling) lining with necessary nails/screws etc. complete, excluding the cost of frame -Eaves Board.	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed (frames for the external ceiling)-Mixed Conifer.
4.00	4.00	4.00	4.00	4.00	17.32	30.24		17.82	0.84
Each	Each	Each	Each.	Each.	Mtr.	Mtr.		m.ps	cu.m
0+130	· 中国 自 也 · · · · · · · · · · · · · · · · · ·								
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16.8	Providing & fixing 2000 litres plastic tank including all accessories complete. (RABTEN Brand or equivalent)	2,00	Each	
15.9	Providing & fixing angle valve, 20mm dia. (Jaquar Brand or equivalent)	4.00	Each	
16.10	Providing & fixing connecting hosepipe in wash basin or kitchen sink.	4.00	Each	
16.11	Providing & fixing G.I. pipes (PKM Brand or equivalent) including G.I. fittings & clamps & repair walls.			
16.11.1	25mm	19.68	Mtr.	
15.11.2	32mm	6.81	Mtr.	
16.12	Constructing Brick masonry valve chamber in cement mortar 1:4, reinforced cement concrete top slab with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), foundation concrete 1:4:8 (1 cement: 4 sand: 8 graded crushed rock 40mm nominal size aggregates), 12mm plaster in cement mortar 1:3 finished, Inside dimension 600 x 600mm & 400mm deep including C.l. cover & frame (weight >38 kg).	1.00	Each	
4	Sewerage works			
1271	Providing & laying H.D.P.E Pipes, 4 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) -160mm.	11.31	Mtr.	
17.2	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) -50mm.	9.85	Mtr.	
.773	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 75mm.	4.00	Mtr.	
17.4	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 110mm.	4.00	Mtr.	
17.5	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed,	3.46	Mtr.	



crushed rock 40mm nominal size aggregates), 12mm plass finished with floating coat of neat cement and making concrete 1:2:4 (1 cement: 2 sand: 4 graded crushed roaggregates), neatly finished complete, Inside dimension of deep including C.I. cover & frame (weight >38 kg) - Intercent words; Words; STAFF QUARTER (ELECTRICAL) Description WiRING Providing & Wiring for light, fans, call bell and 2 pin light so sq.mm 1.1kV grade, PVC insulated copper conductor cable()	crushed rock 40mm nominal size aggregates), 12mm plaster in cement mortar in finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), neatly finished complete, Inside dimension 900 x 800mm & 600mm deep including C.I. cover & frame (weight >38 kg) - Interception pit. Words; STAFF: QUARTER (ELECTRICAL) Description WIRING Providing & Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or sq.mm 1.1kV grade)	ze aggregates), 12mm plaster in cement mortar 1:3 if neat cement and making channels in cement and: 4 graded crushed rock 20mm nominal size implete, Inside dimension 900 x 800mm & 600mm ne (weight >38 kg) - Interception pit. is, call bell and 2 pin light socket outlet with 1.5	ze aggregates), 12mm plaster in cement mortar 1:3 f neat cement and making channels in cement and: 4 graded crushed rock 20mm nominal size implete, Inside dimension 900 x 800mm & 600mm ne (weight >38 kg) - Interception pit. Quantity	re aggregates), 12min plaster in cement mortar 1:3 If neat cement and making channels in cement and: 4 graded crushed rock 20mm nominal size complete, Inside dimension 900 x 800mm & 600mm ne (weight >38 kg) - Interception pit. Quanti	ze aggregates), 12mm plaster in cement mortar 1:3 f neat cement and making channels in cement and: 4 graded crushed rock 20mm nominal size pmplete, Inside dimension 900 x 800mm & 600mm ne (weight >38 kg) - Interception pit.	ze aggregates), 12mm plaster in cement mortar 1:3 f neat cement and making channels in cement and: 4 graded crushed rock 20mm nominal size amplete, Inside dimension 900 x 800mm & 600mm ne (weight >38 kg) - Interception pit. Tota
ans, call bell and 2 pin light so	L) ans, call bell and 2 pin light socket outlet with	ns, call bell and 2 pin light socket outlet with 1.5	Quantity	Quantity		
all bell and 2 pin light so	all bell and 2 pin light socket outlet with		Quantity			
all bell and 2 pin light so	all bell and 2 pin light socket outlet with		Quantity		11-11	Rate(Nu.)
2 pin light so ductor cable(2 pin light socket outlet with ductor cable(RR Kabel/HPL/H	2 pin light socket outlet with 1.5			Unit	Unit Figure
cable(cable(RR Kabel/HPL/H	Bur acret onder Midt 19	ight encket outlet with te	oht corbat outlet with a c	oht corket outlet with to	ight cocket outlet with to
COC. US	equivalent) in recessed HDPE pipe with 6A modular type switch, MS boxes including connections, painting, testing and commissioning etc. as required to strand school derivative or administration.	sq.mm 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe with 6A modular type switch, MS boxes including connections, painting, testing and commissioning etc. as required	ocket outlet with 1.5 (RR Kabel/HPL/Havels or switch, MS boxes ig etc. as required	ocket outlet with 1.5 (RR Kabel/HPL/Havels or switch, MS boxes ig etc. as required	ocket outlet with 1.5 (RR Kabel/HPL/Havels or switch, MS boxes ig etc. as required	ocket outlet with 1.5 (RR Kabel/HPL/Havels or switch, MS boxes getc. as required
witch, MS g etc. as re-	boxes	IPL/Havels or boxes quired	IPL/Havels or boxes quired	dPL/Havels or boxes quired	tPL/Havels or boxes quired	tPL/Havels or boxes quired

2.8	2.2	2.1.4	2.1.3	2.1.2	2.1.1	2.1	2	1-5	- 2	:	1.2.2	1.2.1
Supply, Installation and commissioning of three phase energy meter of suitable size after consulting BPC complete as required.	Supplying of prewired call bell 250 volt A.C with base, terminal block and all accessories complete,; - Gong bell assembly	Cat No. /LED Up-Down Wall Light(Outdoor)/Code-680701,6W	Cat No. LED Up-Down Wall Light(Indoor)/Code-688576,6W	Cat No. LED Surface Ceiling Light(Round)/Code-650024,6W	Cat No./LUMILINE Plus LED Tube/LUMILINEPLUSBS20WLED865SPCSS, 20W	Supplying of light fittings complete set with all accessories as required, with lamp (Havells/HPL/Vinay or Equivalent).	FITTINGS AND ACCESSORIES	Providing & Wiring for sub-main with 1.1kV grade, PVC insulated copper conductor cable(RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections including connections, painting, testing and commissioning etc. as required (Legrand/ Schneider make or equipment), ; - 4x10 sq.mm Cu. Cable	Providing & Wiring for lighting circuit and lighting point with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment), ;- 2x2.5 sq.mm	Providing & Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable (RR Kabel/HPL/Havels or equivalent) in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required(Legrand/ Schneider make or equipment), ;-2x4 sqmm	Long point	Medium point
4.00	4.00	2.00	12.00	14.00	20.00			56.00	212.00	89.00	32.00	16.00 Point
Job	Each	Each	Each	Each	Each	,		Mtr.	Mtr.	Mtr.	Point	Point

4	4	3.7	3.6	G.	W.	3.5.2	3.3.1	ů,	13 12	20	w	4
Erection of all indoor/outdoor surface type wall bracket (single or double)/ surface ceiling fittings GLS lamps/ bulk head GLS lamp / all types call bell / all type picture or mirror lighting luminiaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor; 2.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	ERECTION/INSTALLATION	Providing and fixing of wooden frame structure appropriate with wire mesh duly approved by engineer in-charge for enclosing the MCB DB Box (distribution board) locking arrangement etc. as required	Supply of TPN distribution board (DIN type, vertical) with arcylic door, 415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required (BSB Approved Make),; - 6way	Supply of miniature circuit breaker (MCB) triple pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required(BSB Approved Make), ; - 25A	Supply & Fixing of residual current circuit breaker (RCCB) 4 pole, sensitivity 3 umA/100mA, 415 volt A.C complete with all accessories suitable to to fix on a dinbar etc. as required(BSB Approved Make);; - 4 cA	16A	6A	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required(BSB Approved Make)	Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required (BSB Approved Make),; - 4 strips, 450mm bar, 100A	Supplying of pre-fabricated MS busbar chamber with copper busbar complete with all accessories etc. as required(BSB Approved Make), ; - 4 strips, 450mm bar, 100A	CONTROL, SWITCHGEARS & BUSBAR	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as dowr. rod, sweep 3 Nos., canopy 2 Nos., condenser and fan body etc. complete as required, ; -1200mm sweep
32.00		1.00	4.00	4.00	4.00	48.00	12,00		1.00	1.00		12.00
Each		Set	Each	Each	Each	Each	Each		Each	Each		Each

6.1	6	54	Vs.	4.	4.7	4 6	4.5	4.4	4.3	4.2
Supplying of 4- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables,; - 25 sq.mm	POWER CABLE	Provide and install earthing with GEE slab 4' x 1' x 2" -8 nos connected in series, including 25x4mm GI strip running upto DBs. Manufactured by Druk-Care GEE slab earthing system at Jimena, Thimphu or equivalent. For installation- visit website: www.drukcare.com	EARTHING	Installation, testing and commissioning of TPN DB (DIN type, horizontal/vertical) with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB FP 40/63A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16A on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc. as required,; - 6way	Installation, testing and commissioning of prefabricated bus bar chamber with copper bus bar complete with all accessories including connections etc. as required,; - 4 strips, 300/450mm length, 100A	Installation, testing and commissioning of four pole moulded case circuit breaker (DIN type) breaking capacity 16/25K complete with all accessories to accommodate on/in prefabricated MS surface/MS cubical control panel board including drilling holes, connections etc as required, ; - 100A, 415V	Installation, testing and commissioning of TPN/four pole miniature circuit breaker (DIN type) complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required, ; - 25A, 415V	Installation, testing and commissioning of SP/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required, ; - 6/10/16/20A	Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVCinsulated copper conductor, ; - 1.5 sq.mm single core cable 1.1 KV grade	Installation, testing and commissioning of prewired fluorescent fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor, ; - 1.5 sq.mm single core cable 1.1 KV grade
45.00	N.	1.00		4.00	1.00	1.00	4.00	60.00	12.00	20.00
Mtr.		Set		Each	Each	Each	Each	Each	Each	Each

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9	8.2	60.1	03	7.4	7.3.2	7.3.1	7.3	7.2	7.1	7	6.4	6.3	62
Earthing for LA	GI tube with finial base plate with 85x6 mm copper strip ,25mm dia,300mm long.	25rnm dia 900mm long copper tube four prong	Lighting Arrestor (Supply and Fix)	Providing and supplying of air Conditioning , Hitachi or equivalent 1.5 MT , Hot and Cold including wiring of cables and asociated works such as painting , testing and commissioning	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required, ; - 25mm	Supplying Television Terminal Cabinet (TTC)(SQCA Appd.) as required.	Supply, Installation, Testing and commissioning Powder coated Telephone Tag Box including with all accessories.	Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc.as required.; - TV coaxial socket	Supplying and drawing coaxial cable, RG6 in recessed HDPE pipe including necessary cutting, connection, testing etc. as required.	TELEVISION NETWORK	Installation, Testing and Commissioning of end termination with single/double compresion gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required,; - 27/29/33mm dia	Laying of one number PVC insulated and sheathed power cable copper/aluminium,armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushing, protective covering and refilling the trenches etc. as required, ; - Above 6sq.mm to 25sq.mm	Supplying of heavy duty brass single compression gland for 4- Core 1.1KV grade PVC insulated and sheathed Copper/ Aluminium conductor armoured/un-armoured power cables,;-29mm dia, 25sq.mm
14.40	1.00	1.00		16.00	126.00	1.00		12,00	202.00		2.00	45.00	2.00
	Each	Each		Each	Mtr	Each		Each	Mtr		Each:	Mtr.	Each
													,

Eart	2 LAL	1.2 not dres	1.1.2 All k	1.1.1 All k	1.0 plan	1 DEE	SI.No Item	F BEN	Total in Words;		9-3 from	9.2 stee	9.1 cov eart	
Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and	LAUNDRY AND KITCHEN AND BACK	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth with:n 50m lead.	All kinds of rock with or without blasting.	All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	DEEP BURIAL PIT AND SOLID WASTE	Item Description	BENCHING (CIVIL)	ds;		Providing and laying earth connection from earth electrodes in 15mm dia. GI pipe from earth electrode as required as per guidance of standard earthing drawing with 4.06mm dia (85WG) copper wire.	Providing and drawing wire for loop earthing in exisiting surface/recessed PVC/MS/ steel conduit or cassing capping or wooden batten along with other wires as required - 2.032mm (14 SWG) copper wire.	Providing and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, water pipe with excavation and refilling work including charcoal or coke and salt complete required as per standard earthing drawing - With copper earth plate 600x600x3mm.	
THE STATE OF		803.1	210.61	210.61			Quantity				60.00	60.00	1.00	
		6 Cu.m	1 Cu.m	t cu.m			Unit				Mtr	Mtr	Sets	
	X						Figure	R	iotalion	Total for 6				
							Words	Rate (Nu.)	lotal for Amarica (Electrical)	Staff Ouartor (Electric				
1							Amount (Nu.)		(a)					

4.1.2	4.1.3	4.1	,a	3,3	5.	3.1.2	3.4.1	3.0	w	2.2	21	2.1.2	2.1.1
All kinds of rock with or without blasting.	(All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	COURT AND PARKING	Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km.	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead.	All kinds of rock with or without blasting.	All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	BASIC HEALTH UNIT BUILDING	Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km.	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead.	All kinds of rock with or without blasting.	Ali kinds of soil.
227.57	227.57		111111111111111111111111111111111111111	167.81	2,606.55	1,387.18	1,387.18			1,528.18	142.80	635.49	835.49 cu.m
cu.m	cu.m			cu.m	cu.m	cu.m	cu.m			cu.m	cu.m	cu.m	cu.m

6.1.2	6.1.1	5.1	6	5.3	5.2	5.1.2	5.1.1	5.1	5	4.3	4.2
All kinds of rock with or without blasting.	All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	CARETAKERS AND DRIVERS QUARTER	Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km.	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead.	All kinds of rock with or without blasting.	All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	UNIT STAFF QUARTER	Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km.	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead.
110.65	110.65			135-75	358.73	247.24	247.24			383.30	71.84
cu.m	cu.m			Cu.m	cu.m	cu.m	cu.m			cu.m	cu.m
	All kinds of rock with or without blasting.	All kinds of soil. All kinds of rock with or without blasting. 110.65	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of soil. All kinds of rock with or without blasting.	CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of soil. 110.65	Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of soil. All kinds of rock with or without blasting.	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead. Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of rock with or without blasting.	All kinds of rock with or without blasting. Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead. Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of rock with or without blasting.	All kinds of soil. All kinds of rock with or without blasting. 247.24 All kinds of rock with or without blasting. 247.24 Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead. Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of rock with or without blasting.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of soil. 247.24 All kinds of rock with or without blasting. 247.24 Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead. Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of rock with or without blasting. 110.65	UNIT STAFF QUARTER Earth work in surface excavation, depth <300mm, width >1,5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of soil. 247.24 All kinds of rock with or without blasting. 247.24 Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead. Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1,5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of rock with or without blasting. 110.65	Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. UNIT STAFF QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of soil. All kinds of rock with or without blasting. Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead. Transport of excavated materials in designated locations including loading/unloading, dressing of dump sites up to 3.0km. CARETAKERS AND DRIVERS QUARTER Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed. All kinds of rock with or without blasting. 110.65

Si.No lite	0 0	Total in Words;		8.2 ioa	B.s.2 All	8.1.1 All	8.+ pla	8 ROAD	7.3 Tra	7.2 no	7.1.2 All	7.5.5 All	7.1 pla	7 DC	6.3 102
item Description	Cisained-Link Fencing (5m Height)	ords;		Transport of excavated materials in designated local localing/unloading, dressing of dump sites up to 3.0km.	All kinds of rock with or without blasting.	All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 Sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	AD	Transport of excavated materials in designated local l	Construction of embarkment by providing and laying dry earth in horizontal layers not exceeding 200mm in depth (compacted), including watering, power rolling, dressing and preparation of site with selected excavated earth within 50m lead.	All kinds of rock with or without blasting.	All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	DOCTORS QUARTER	loading/unloading, dressing of dump sites up to 3.0km.
aguantity	Sale gal			locations including: 776.48	308.24	388.24	area >10 Sq.m in & 1.5m lift and		locations including 2,297.18	ng.	1,149.48	1,119.48	area >10 sq.m in & 1.5m lift and		114.83
Unit				48 cu.m	.24 cu.m	.24 cu.m			.18 cu.m	11.78 cu.m	.48 cu.m	.48 cu.m			.83 cu.m
Figure Words	Rate (Nu.)		lotal for BENCHING												
	Amount (No.)		C	,											(i

y.	w	2.2	2.1.1	2.1	2	5	-	SLNo.	H)——	VI	4.		2	+.
Random Rubble Masonry with hard stone in cement mortar 1:4 in foundation and plinth.	Stone Work	Providing and laying 150mm thick dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	a) All kinds of soil.	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	Earth work	Clearing jungle including uprooting of vegetation & trees of girth <300mm disposal within 50m of the site.	Clearing & Grubbing	. Item Description	EXTERNAL STAIRCASE IN RRM (CIVIL)		Providing & fixing G.I chain-link mesh 4mm (8 SGW) x 50mm including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.)	Steel work welded in Angles - 75x75x8mm, in built up sections, trusses, frameworks including cutting, hoisting, fixing and applying priming coat of red lead paint.	Providing and laying in position plain cement concrete 1:3:6 (1 cement: 3 sand: 6 graded crushed 40mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	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.	Clearing Jungle including uprooting of vegetation & trees of girth <300mm & disposal within 50m of the site.
57	Control In	- 3	156	and		Ç0		Quantity							ım & 78.23
24.71	-	21.36	156.64			243.20					260.80	3,125.32	2.55	166.91	
cu.m	- 5	cu.m	cu.m		L	sq.m		Unit			sq.m	8	cu.m	₹	sq.m
								Figure	R	Total fo					
								Words	Rate (Nu.)	Total for Chained Lined Fencing					
3		1				12-1		Amount (Nu.)		Su				,	

				0000	Description and Indian Appear thick processings	r.
			сп.т	30.25	Providing and laying 25 mm thick sand bedding under floor.	5
•			Cm.m	35.30	Providing and laying plain cement concrete 1:3:6 (1 cement 3 sand: 6 graded crushed rock 20mm nominal size aggregate) in and under foundation, plinth, column footing and wall bases.	- 2
			cu.m	121.00	Providing and laying dry hand packed stone soling/course aggregate filling with hard stone.	- w
			Cn.m	121.00	Providing and laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing.	PV T
			m-bs	1210.00	All leinds of soil.	5
					Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m 'n plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed.	-
	Words	Figure			Item Description	SLNo.
Amount (No	Rate (Nu.)	R	Unit	Quantity	FOOTPATH (CIVIL)	
					Words;	Total in Words;
W	Total for EXTERNAL STAIRCASE IN RRM	Total for EXTER				
			sq.m	25.34	Boams, Lintels, Slabs, Landings, Staircases, Walls etc. in superstructure with Phenol bonded ply snuttering.	NB .
	formwork)	and removal of	ping etc.	tting, prop	Form work (Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork)	Ut
			cu.m	6.91	Providing and laying in position plain cement concrete 1:3:6 (1 cement: 3 sand: 6 graded crushed 40mm nominal size aggregates) excluding the cost of centering and shuttering - All work upto plinth level.	4.1
					Cancrete Mork (excitating centering and structural)	4

Rate Quantity Unit Figure		7	Providing and laying Concrete edging 300 x 300 x 80 mm including excavation, refilling and disposal of surplus earth within 30m lead.	500,00	Mtr.		
Vork Nork Nork Nork Nork Nork Nork Nork Nork Nork Nord Nork Nord Nord				Shipping.			Total for FOOTPATH
Ratking And Road Works Rate (Nu.) Rate (Nu.)		Total i	Words;				
Item Description Earth Work Earth Work Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earthwithin 50m lead & 1.5m lift and disposed soil to be neatly dressed - All kinds of soil. Subgrade Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m - All kinds of soil. Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade. Cranular-Subgrade Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and laying 150mm thick wet mix macadam graded aggregate base quality specified Providing and laying 150mm thick wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application 1205-58 sq.m		-	PARKING AND ROAD WORKS			R	ate (Nu.)
Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earthwithin 50m lead & 1.5m lift and disposed soil. Subgrade Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m - All kinds of soil. Cossolidation of subgrade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m - All kinds of soil. Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade. Granular-Sub-grade Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate passe course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application 1205,58 sq.m of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		SLNo.	Item Description	Quantity	June	Figure	Words
Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in plan, including disposal of excavated earthwithin 50m lead & 1.5m lift and disposed 50il to be neatly dressed - All kinds of soil. Subgrade Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m - All kinds of soil. Cossolidation of subgrade with roller, and making good the undulation with earth 241.12 and re-rolling the subgrade. Cossolidation of subgrade with roller, and making good the undulation with earth 421.12 and re-rolling and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, two roller etc. complete.	1	-	Earth Work				
plan, including disposal of excavated earthwithin 50m lead & 1.5m lift and disposed soil to be neatly dressed - All kinds of soil. Subgrade Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m - All kinds of soil. Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade. Cossolidation of subgrade with roller, and making good the undulation with earth 4241.12 and re-rolling and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat (@ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.			Earth work in surface excavation, depth <300mm, width >1.5m, area >10 sq.m in				
Subgrade Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50 m- All kinds of soil. Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade. Granular-Sub-grade Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate providing and laying 100mm thick wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat (@ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		5	plan, including disposal of excavated earthwithin 50m lead & 1.5m lift and disposed soil to be neatly dressed - All kinds of soil.	1,205.58	m-bs		
Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m. All kinds of soll. Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade. Granular-Sub-grade Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		2	Subgrade				
Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade. Granular-Sub-grade Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate quality specified Providing and laying 100mm thick wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		2 1	Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m - All kinds of soil.	241.12	cu.m		
Granular-Sub-grade Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate quality specified Providing and laying 100mm thick wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		2.2	Cossolidation of subgrade with roller, and making good the undulation with earth and re-rolling the subgrade.	241.12	m.ps		
Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate quality specified Providing and laying 100mm thick wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat (a) 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		vi .	Granular-Sub-grade				
Providing and laying 100mm thick wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified. Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt piant, paver, steel roller, tyre roller etc. complete.		ŭ,	Providing and laying 150mm thick Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor for laying and compacted to required density as per material gradation and aggregate quality specified	180.84	1.7		
Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt plant, paver, steel roller, tyre roller etc. complete.	-	3.2	ate ss f	120.56			
		×.	Providing and Laying 60 mm thick Dense Bituminous Macadam (DBM) to required degree of compaction based on mixture design (job mix formula) approved by the supervising engineer including preparation of surface with road broom, application of prime coat @ 0.75 kg/Sq.M by mechanized method using asphalt plant, paver, etcel roller tyre roller etc. complete	1205.58	m.ps		



Cu.m
\vdash
Origin Htv - Unit
-
163.37 Mtr
163.37 Mtr
25.50 sq.m
1,205.58 sq.m
1.205,58 sq.m

	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	21	2.0
Market Ma	Providing and fixing mild steel railing made of Hollow tubes, channels, plates etc including welding, grinding, buffing, polishing and making curvature (wherever required) and fittings the same with necessary mild steel nuts and bolts complete, ile fixing railing with necessary accessories and mild steel dash fasteners, mild steel bolts etc, of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineers in charge.	Filling of trenches, sides of foundations etc. in layers<200mm using selected excavated earth, ramming etc.within lead 50 m & lift 1.5m	Providing & laying pointing on stone work with cement mortar 1:3 (Raised and cut pointing)	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth including all lifts and heights	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering- In 1:3:6 (20mm nominal size crushed rock) in top capping	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4 including all lifts & heights	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level (1:3:6 with 40mm nominal size)	Providing and laying Hand packed stone filling or soling with stones	All kinds of soil/rocks	Extra for every additional lead beyond 50m up to 3km and deposit to a required level including dressing & levelling.
1	61.16	20.15	146.79	40.00	1.83	102.27	6.61	39.27	132.11	
	Mr.	Cu.m	sq.m	sq.m	cr.m	cu.m	cu.m	cu.m	cu.m	
Total for 2.0m HEIGHT RETAINING WALL										

٦	3.0m HEIGHT RETAINING WALL	Quantity	Unit		Rate (Nu.)
SLNo.	Item Description	Quality	Cilic	1	Figure
1.0	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed.				
11	All kinds of soil	89.32	cu.m	-	
1.2	All kinds of rock requiring blasting /without blasting	89,20	cu.m	3	3
2.0	Extra for every additional lead beyond 50m up to 3km and deposit to a required level including dressing & levelling.; - All kinds of soil/rocks	178.64	cu.m	3	3
3.0	Providing and laying Hand packed stone filling or soling with stones	31.98	5	cu.m	Ē.
4.0	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level (1:3:6 with 40mm nominal size)	5.96		cm.m	rm
5.0	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4 including all lifts & heights	115.720	5	cu.m	r.m
6.0	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering- In 1:3:6 (20mm nominal size crushed rock) in top capping	1.15	cu.m	3	3
7.0	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth including all lifts and heights	27.730	m-bs	3	3
8.0	Providing & laying pointing on stone work with cement mortar 1:3 (Raised and cut pointing)	115.25	mps	3	m
9.0	Filling of trenches, sides of foundations etc. in layers<200mm using selected excavated earth, ramming etc. within 50m lead & 1.5m lift.	71.84	cu.m	Ė	.T



SLNo. Item Description Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed. 1.1 All kinds of soil 1.2 All kinds of rock requiring blasting /without blasting Extra for every additional lead beyond 50m up to 3km and deposit to a required level including dressing & levelling - All kinds of soil/rocks Providing and laying Hand packed stone filling or soling with stones Providing & laying Random Rubble Masonry with hard stone in foundation & plinth level (1:3:6 with 40mm nominal size) Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers.	
A.om HEIGHT RETAINING WALL Item Description Cuantity	Quantity Unit 187.25 cu.m 187.25 cu.m 374.50 cu.m 52.77 cu.m 12.48 cu.m
Item Description Quiltem Description	Quantity 187.25 187.25 374.50 52.77
4.0m HEIGHT RETAINING WALL	7 0 5 5
4.0m HEIGHT RETAINING WALL Quantity Item Description Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed.	0 0 0
4.0m HEIGHT RETAINING WALL Item Description Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed. All kinds of rock requiring blasting /without blasting All kinds of rock requiring blasting /without blasting	0 0
4.0m HEIGHT RETAINING WALL Item Description Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed. All kinds of soil Quantity	5
Item Description Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed.	
4-om HEIGHT RETAINING WALL Item Description	
4.0m HEIGHT RETAINING WALL	
	32.01 Mtr.

5.0 Pro	4.0 cent size)	3.0 Pro	2.0 Extr	1.2 All l	1.1 All l	1.0 on disp	SLNo, Iten	N 5.0	Total in Words;		Pro incl incl req 10.0 i/e stee	9.0 Filli	8.0 Pro	7.0 pro and
Providing & laying Random Rubble Masonry with hard stone in foundation & high	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level (1:3:6 with 40mm nominal size)	Providing and laying Hand packed stone filling or soling with stones	Extra for every additional lead beyond 50m up to 3km and deposit to a required level including dressing & levelling - All kinds of soil/rocks	All kinds of rock requiring blasting /without blasting	All kinds of soil	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed.	Item Description	5.0m HEIGHT RETAINING WALL	rds;		Providing and fixing mild steel railing made of Hollow tubes, channels, plates etc including welding, grinding, buffing, polishing and making curvature (wherever required) and fittings the same with necessary mild steel nuts and bolts complete, i/e fixing railing with necessary accessories and mild steel dash fasteners, mild steel bolts etc, of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineers in charge.	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	Providing & laying pointing on stone work with cement mortar 1:3 (Raised and cut pointing)	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth including all lifts and heights
4,580.84	144.19	1,032.46	7,209.52	3,604.76	3,604.76		January.	Ouantity			47.29	106.11	170.23	43.27
cu.m	cu.m	cu.m	cu.m	cu.m	cu.m			Unit		7	Mtr.	cu.m	sq.m	sq.m
							Figure	-		otal for 4.0m H				
							Words	Rate (Nu.)		Total for 4.0m HEIGHT RETAINING WALL				
								Amount (Nu.)						

1,2	Ē	2	SL.No.	o	Total in		10.0	9.0	8.0	7.0	6.6
Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m. Ordinary rock with or without blasting.	Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m. All kinds of soil.	Water Supply Network	Item Description	WATER SUPPLY, RAW WATER STORAGE AND SEWERAGE NETWORK	Total in Words;		Providing and fixing mild steel railing made of Hollow tubes, channels, plates etc including welding, grinding, buffing, polishing and making curvature (wherever required) and fittings the same with necessary mild steel nuts and bolts complete, i/e fixing railing with necessary accessories and mild steel dash fasteners, mild steel bolts etc, of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineers in charge.	Filling of trenches, sides of foundations etc. in layers <200mm_using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	Providing & laying pointing on stone work with cement mortar 1:3 (Raised and cut pointing)	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth including all lifts and heights	walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering- In 1:3:6 (20mm nominal size crushed rock) in top capping
50.13	200.54		Quantity				453.43	1,316.76	2,267.15	344.15	81.62
Mtr.	Mtr.		Unit				Mtr.	cr.m	m-bs	m-bs	cu.m
			Figure	R		Total for 5.0m H					
-			Words	Rate (Nu.)		Total for 5.0m HEIGHT RETAINING WALL					
			Amount (Nu.)			T.					



39.00 sq.m	Applying a cat of hot bitumen (maxphalt) 80/100 or equivalent using 1.7 kg per Sq.M including the surface cleaning.	2.6
2.31 cu.m	Providing & laying plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - all work upto plinth level.	2.5
3.47 cu.m	Providing & laying Hand packed stone filling or soling with stones.	2.4
123.16 cu.m	Tilling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & 1.5m lifts.	2.3
67.43 cu.m	All Kinds of Rock	2.2.2
67.43 cu.m	All Kinds of Soil	2.2.1
	Earth work in excavation over areas, depth >3,00mm, width >1.5m, area >10 sq.m on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed.	2.7
30.00 sq.m	Clearing grasses including removal of rubbish within 50m of site.	17.4
	RCC Raw Water Storage	~
2.00 Nos	50 mm	1.6.1
1.00 Nos	80 mm	1.6.1
	Providing and fixing C.I./D.I. gate valves (with cap) complete with boits, nuts, rubber insertions etc., resilient seated.	1.6
163.27 Mtr.	Providing & laying 32mm H.D.P.E pipes, 12-5 PN, including P.D.P.E fittings (excluding trenching, refilling & thrust block) inclusive of elbows and other required parts, inclusive of butt fusion.	ů"
75.38 Mtr.	Providing & laying 50mm H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) inclusive of elbows and other required parts, inclusive of butt fusion.	- 4
12.03 Mtr.	Providing & laying 75mm H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) inclusive of elbows and other required parts, inclusive of butt fusion.	13:

3.1	w	2.13	2.12	2.71.4	2.11.3	2.11.2	2.11.1	2.11	21	2.9	2.8	2.7
Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of som, All kinds of soil	Sewerage Network	Providing and fixing 80 mm C.I./D.I. gate valves (with cap) complete with bolts, nuts, rubber insertions etc., resilient seated.	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete 10mm dia.	Suspended floor, roof, landing, shelves and their supports, balconies, chajjas, etc.	Lintels, beams, girders, bresummers, cantilevers etc.	Walls, pilasters, buttresses, string course etc.	Foundation and plinth etc.	Providing and fixing centering and shuttering (formwork), including strutting propping etc. and removal of formwork.	Providing & laying in position reinforced cement concrete 1:1:2 (1 cement :1 sand :2 graded crushed rock 20 mm nominal size aggregates) in beam, lintels & staircase upto floor five level excluding the cost of centering, shuttering and reinforcement.	Providing & laying in position reinforced cement concrete 1:1:2 (1 cement :1 sand :2 graded crushed rock 20 mm nominal size aggregates) in slabs up to floor five level excluding the cost of centering, shuttering and reinforcement.	Providing & laying in position reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement 1:1:2 (1 cement:1 sand: 2 graded crushed rock 20 mm nominal size aggregates).	Providing & laying in position reinforced cement concrete 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - all work upto plinth level.
n, of trenches for pipes & sockets, bottom, depth upto 1.5m, disposal		es (with cap) complete with bolts,	i reinforcement bar (Yield Strength ling, binding and placing in position	r supports, balconies, chajjas, etc.	s etc.			g (formwork), including strutting,	t concrete 1:1:2 (1 cement :1 sand :2 gates) in beam, lintels & staircase ing, shuttering and reinforcement.	t concrete 1:1:2 (1 cement :1 sand :2 gates) in slabs up to floor five level reinforcement.	nent concrete work in walls (any es, piers, abutments etc. upto floor attering and reinforcement 1:1:2 (1 ominal size aggregates).	concrete 1:1:2 (1 cement: 1 sand: 2 excluding the cost of centering, nth level.
274-976		4.00	2,660.70	10.14	46.20	78.00	2.91	84	1.23	1.52	10.73	9.24
Mtr.		Each	K	m.ps	m-bs	m-bs	m-bs		cn-m	cu.m	m'n)	cu.m

	1.0	Silitio.	Ď,	Total II		3-7.2	3.7.1	3.7	3.6	3.5	24	ų.	3.2
A) Drain Size: (300x300)mm	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed.	Item Description	STORM WATER DRAINS	Total in Words;	Total for WATER	inside dimension 1200dia & 2450mm deep including C.I. cover & frame weight >116 kg)	inside dimension goodia & 600mm deep including C.I. cover & frame (weight >38 kg)	Constructing reinforced cement concrete manhole, reinforced cement concrete top slab and foundation with 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), 12mm plaster in cement mortar 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 sand: 4 graded crushed rock 20mm nominal size aggregates), neatly finished complete.	Providing & laying 250mm H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) inclusive of elbows and other required parts, inclusive of butt fusion.	Providing & laying 90mm H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) inclusive of elbows and other required parts, inclusive of butt fusion.	pipes, 12.5 PN, rust block) inclu	Providing & laying 160mm H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) inclusive of elbows and other required parts, inclusive of butt fusion	Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m. Ordinary rock with or without biasting.
400		1	Cuantity		SUPPLY, RA	00.7	9.00		56.65	28.90	148.56	39.61	69.744
			Unit		AW WATE	Each.	b Each.		Mtr.	Mtr.	6 Mtr.	1 Mtr.	4 Mtr.
		Figure	50		R STORAGE AN								
		Words	Rate (Nu.)		Total for WATER SUPPLY, RAW WATER STORAGE AND SEWERAGE NETWORK								
			Amount (1933)		X				1				•

cu.m	10.00	Sespendent	C) Drain Size: (500×700)mm	
cu.m	6,00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B) Drain Size: (400x550)mm	3:2 B)
cu.m	11.14		A) Drain Size: (300x300)mm	3.1 A)
	100	1:2:4 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size aggregates)	:4 (1 cement : 3 sand : 6 graded crushe	3.0 1:2
cu.m	5.00		D) Drain Size: (550x800)mm	2.4 D)
cu.m	8.00		C) Drain Size: (500x700)mm	2.3 C)
cu.m	4.00		B) Drain Size: (400x550)mm	2.2 B)
Cu.m	7.00		A) Drain Size: (300x300)mm	2.1 A)
	of	rete excluding the cost . 1:2:4 (1 cement : 2 sand	Providing and laying in position plain cement concrete centering and shuttering - All work upto plinth level. 1:2:2 graded crushed rock 20 mm nominal size aggregates)	2.0 Pr
cu.m	38.48		All Kinds of Rock	1.4.2 Al
cum	38.48		All Kinds of Soil	1.4.1 Al
			D) Drain Size: (550x800)mm	D)
cu.m	47.61		All Kinds of Rock	1.3.2 Al
cu.m	47.61		All Kinds of Soil	1.3.1 Al
			C) Drain Size: (500x700)mm	()
cu.m	20.56	1	All Kinds of Rock	1.2.2 Al
cm.m	20.56		All Kinds of Soil	1.2.1 Al
			B) Drain Size: (400x550)mm	В)
cu.m	22.28	100	All Kinds of Rock	1.1.2 Al
	07.77		All Kinds of Soil	1.1.1 A

A CONTRACTOR OF THE PARTY OF TH	The second secon	X 22 0 1	1
	56.68 sq.m	C) Drain Size: (500x700)mm	ii
	27.19 sq.m	3) Drain Size: (400x550)mm	7.2
	55.71 sq.m	(A) Drain Size; (300x300)mm	7.1
		Neat cement punning.	7.0
	123.14 sq.m	(7) Orain Size: (550x800)mm	6.4
	158.70 sq.m	C) Drain Size: (500x700)mm	50
	74-77 sq.m	B) Prain Size: (400x550)mm	6.2
	111.42 sq.m	A) Orain Size: (3cox300)mm	6.1
		Providing & laying cement plaster, finished with floating coat of neat cement - 2011m plaster in cement mortar 1:4.	in in
	31.00 cu.m	D) Orain Size: (550x800)mm	5.4
	40.00 cu.m	C) Drain Size: (500x700)mm	50
	19.00 cu.m	B) Drain Size: (400x550)mm	5.2
	16.71 cu.m	(A) Drain Size: (300x300)mm	57
		Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in cement mortar 1:5.	50
	10.00 cu.m	D) Orain Size: (550x800)mm	4.
	14-00 cu.m	C) Drain Size: (500x700)mm	4.3
	7.00 cu.m	B) Drain Size: (400x550)mm	4.2
	14.86 cu.m	A) Drain Size: (300x300)mm	4.4
		Providing & laying Hand packed stone filling or soling with stones.	0
	7.00 cu.m	(C) Statil Size: (C) Soxooo Jiniin	34



7/	1	2 5 g W W	4		
D) Drain Size: (550x800)mm Steel work in single section including cutting, holsting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (500x700)mm C) Drain Size: (500x700)mm D) Drain Size: (500x700)mm A) Drain Size: (500x300)mm A) Drain Size: (300x300)mm C) Drain Size: (500x300)mm D) Drain Size: (500x300)mm D) Drain Size: (500x300)mm D) Drain Size: (500x300)mm D) Drain Size: (300x300)mm D) Drain Size: (300x300)mm E) Drain Size: (300x300)mm D) Drain Size: (300x300)mm E) Drain Size: (300x300)mm D) Drain Size: (300x300)mm E) Drain Size: (300x300)mm D) Drain Size: (500x300)mm E) Drain Size: (500x300)mm D) Drain Size: (500x300)mm E) Drain Size: (500x300)mm D) Drain Size: (500x300)mm				words;	2 531
D) Drain Size: (550x800)mm Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (500x700)mm C) Drain Size: (550x800)mm D) Drain Size: (550x800)mm A) Drain Size: (300x300)mm C) Drain Size: (300x300)mm A) Drain Size: (500x700)mm C) Drain Size: (500x700)mm D) Drain Size: (500x700)mm C) Drain Size: (500x700)mm D) Drain Size: (500x300)mm A) Drain Size: (500x300)mm C) Drain Size: (500x300)mm D) Drain Size: (300x300)mm D) Drain Size: (300x300)mm Froviding & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc. A) Drain Size: (500x300)mm B) Drain Size: (500x700)mm C) Drain Size: (500x300)mm 6) Drain Size: (500x300)mm 6) Drain Size: (500x300)mm 6) Drain Size: (500x300)mm	Total for STORM WATER DRAINS				/
D) Drain Size: (\$50x800)mm Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain). A) Drain Size: (\$00x300)mm B) Drain Size: (\$00x300)mm C) Drain Size: (\$50x800)mm D) Drain Size: (\$50x800)mm A) Drain Size: (\$50x800)mm A) Drain Size: (\$00x550)mm A) Drain Size: (\$00x500)mm C) Drain Size: (\$00x500)mm A) Drain Size: (\$00x500)mm D) Drain Size: (\$00x500)mm A) Drain Size: (\$00x500)mm C) Drain Size: (\$00x500)mm C) Drain Size: (\$00x500)mm D) Drain Size: (\$00x500)mm		65.62 sq.r		D) Drain Size: (550x80c)mm	7,0.4
D) Drain Size: (\$50x800)mm Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint. In Tees, angles and channels (drain). A) Drain Size: (\$00x\$00)mm B) Drain Size: (\$00x\$00)mm C) Drain Size: (\$00x\$00)mm D) Drain Size: (\$50x800)mm D) Drain Size: (\$50x800)mm A) Drain Size: (\$00x\$00)mm A) Drain Size: (\$00x\$00)mm D) Drain Size: (\$00x\$00)mm C) Drain Size: (\$00x\$00)mm D) Drain Size: (\$00x\$00)mm C) Drain Size: (\$00x\$00)mm D) Drain Size: (\$00x\$00)mm 1,055.89 Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc. A) Drain Size: (\$00x\$00)mm 57.96		96.55 sq.r		C) Drain Size: (500x700)mm	10.3
D) Drain Size: (550x800)mm Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (400x550)mm C) Drain Size: (550x800)mm D) Drain Size: (550x800)mm Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain). A) Drain Size: (300x300)mm A) Drain Size: (400x550)mm C) Drain Size: (50x800)mm D) Drain Size: (50x800)mm T) 537.87 C) Drain Size: (50x800)mm D) Drain Size: (50x800)mm T) 525.89 Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc. A) Drain Size: (300x300)mm T) 55.89				B) Drain Size: (400x550)mm	10.2
D) Drain Size: (550x800)mm Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (500x700)mm C) Drain Size: (550x800)mm D) Drain Size: (550x800)mm Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain). A) Drain Size: (300x300)mm C) Drain Size: (300x300)mm J) Drain Size: (500x700)mm C) Drain Size: (550x800)mm J,637.87 C) Drain Size: (550x800)mm J,055.89 Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.		176.54 sq.r		A) Drain Size: (300x300)mm	10.1
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (500x700)mm C) Drain Size: (550x800)mm D) Drain Size: (550x800)mm Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain). A) Drain Size: (300x300)mm C) Drain Size: (300x300)mm 732.72 C) Drain Size: (500x700)mm 1,637.87 1,444.21 D) Drain Size: (550x800)mm 1,055.89		rutting,	ng and shuttering (formwork), including st of formwork - Foundation and plinth etc.	Providing & fixing centering propping etc. and removal of	10.0
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (500x700)mm C) Drain Size: (550x800)mm Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain). A) Drain Size: (400x550)mm C) Drain Size: (400x550)mm 732.72 C) Drain Size: (500x700)mm				D) Drain Size: (550x800)mm	5.4
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm C) Drain Size: (500x700)mm D) Drain Size: (550x800)mm Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain). A) Drain Size: (300x300)mm 1,637.87 3) Drain Size: (400x550)mm 732.72				C) Drain Size: (500x700)mm	V.
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm C) Drain Size: (500x700)mm C) Drain Size: (500x700)mm D) Drain Size: (550x800)mm Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain). A) Drain Size: (300x300)mm 1,637.87		732.72 Kgs		3) Drain Size: (400x550)mm	y.2
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (400x550)mm C) Drain Size: (500x700)mm C) Drain Size: (550x800)mm D) Drain Size: (550x800)mm 338.62 Providing & fixing ornamental steel grills in frames with M.S. flats & bars including round headed bolts and nuts etc. (drain).		1,637.87 Kgs		A) Drain Size: (300x300)mm	9.1
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (400x550)mm C) Drain Size: (500x700)mm D) Drain Size: (550x800)mm 38.62		icluding	tal steel grills in frames with M.S. flats & bars in setc. (drain).	Providing & fixing ornament round headed bolts and nuts	9.0
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (400x550)mm C) Drain Size: (500x700)mm 38.48 817.08		338.62 Kgs		D) Drain Size: (550x800)mm	8,4
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm B) Drain Size: (400x550)mm 38.48				C) Drain Size: (500x700)mm	6.3
D) Drain Size: (550x800)mm MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- In Tees, angles and channels (drain). A) Drain Size: (300x300)mm 817.08		299.07 Kgs		B) Drain Size: (400x550)mm	80
MS Gratings MS Gratings Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint- in Tees, angles and channels (drain).		817.08 Kgs		A) Drain Size: (300x300)mm	8.1
D) Drain Size: (550x800)mm 38.48 MS Gratings 38.48		priming	including cutting, hoisting, fixing and applying es, angles and channels (drain).	Steel work in single section coat of red lead paint- In Tee	8.0
D) Drain Size: (550x800)mm 38.48				MS Gratings	
				D) Drain Size: (550x800)mm	7.4

3.1 6Sq.mm 2core P 3.2 24oSq.mm 4core 3.3 15oSq.mm 4core 4.0 Compound light Providing and fix with base plate 3 strude bolt as ea to make the set providing and fix light steel tubula light steel tubula entry hole of 2or complete as requ complete as requ complete as requ complete and inst 6.0 Earthings 6.0 Earthings									etc for cor	Providing arrhoured 500x10000	2.7 Providing light post.	i.o Previding	Si.No Description	Q COMPOU
240Sq.mm 4core PVC I&S, AUGC Compound light Compound light Providing and fixing 7oW Slim LED Flood Light, 8.5m Street Light Steel Tubular Pole with base plate 250x250x5,4mm, entry hole of 40mm dia 1.1m from bottom and strude bolt as earth terminal complete as required and other required accessories to make the set complete. (Vinay or Equivalent) Froviding and fixing 3x6 W COB LED POLE LAMP, 4.5m, 5.4mm thick compound light steel tubular pole 50/50mm outer dia having a base plate 250x250x5.4mm, entry hole of 20mm dia 1.1m from bottom and strude bolt as earth terminal complete as required and other required accessories to make the set complete. (Vinay or Equivalent) Frovide as fixing Four pole MCBs & DBs, ; - 2 pole MCB: 32A & 4way SPNDB Earthings Earthings Frovide and installing earthing with 20mm x18comm Gi spike including & or 10mm dia Gl nuts and bolts, 3m long 2.5 Sq.mm bare copper conductor.	n 4core PVC I&S, AUGC Id light and fixing 7oW Slim LED Flood Light, 8.5m Street Light Steel Tubular Polate 250x250x5.4mm, entry hole of 40mm dia 1.1m from bottom and it as earth terminal complete as required and other required accessorie he set complete. (Vinay or Equivalent) and fixing 3x6 W COB LED POLE LAMP, 4.5m, 5.4mm thick compound and it tubular pole 50/60mm outer dia having a base plate 250x250x5.4mm, e of 20mm dia 1.1m from bottom and strude boit as earth terminal as required and other required accessories to make the set. (Vinay or Equivalent) & fixing Four pole MCBs & DBs, ; - 2 pole IACB: 32A & /way SPNDB	n 4core PVC I&S, AUGC Id light and fixing 7oW Slim LED Flood Light, 8.5m Street Light Steel Tubular Polate 250x250x5.4mm, entry hole of 40mm dia 1.1m from bottom and it as earth terminal complete as required and other required accessorie he set complete. (Vinay or Equivalent) and fixing 3x8 W COB LED POLE LAMP, 4.5m, 5.4mm thick compound I tubular pole 50/60mm outer dia having a base plate 250x250x5.4mm, e of 20mm dia 1.1m from bottom and strude boit as earth terminal as required and other required accessories to make the set. (Vinay or Equivalent) & fixing Four pole MCBs & DBs, ; - 2 pole IACB: 32A & /way SPNDB	n 4core PVC I&S, AUGC Id light and fixing 7oW Slim LED Flood Light, 8.5m Street Light Steel Tubular Polate 250x250x5.4mm, entry hole of 40mm dia 1.1m from bottom and it as earth terminal complete as required and other required accessorie he set complete. (Vinay or Equivalent) and fixing 3x8 W COB LED POLE LAMP, 4.5m, 5.4mm thick compound and fixing 3x8 W COB note of 20mm dia 1.1m from bottom and strude boit as earth terminal as required and other required accessories to make the set . (Vinay or Equivalent)	n 4core PVC I&S, AUGC Id light and fixing 7oW Slim LED Flood Light, 8.5m Street Light Steel Tubular Polities 250x250x5.4mm, entry hole of 40mm dia 1.1m from bottom and It as earth terminal complete as required and other required accessorie he set complete. (Vinay or Equivalent)	n 4core PVC I&S, AUGC n 4core PVC I&S, AUGC nd light	n 4core PVC 1845, AUGC	n 4core PVC I&S, AUGC		6Sq.mm 2core PVC I&S, AUGC	Providing and laying of 1.1kV grade PVC insulated and sheathed (PVC I&S). armoured underground aluminium cable (AUGC) in the cable trench 500x1000deep with necessary sand bed, required size of thimbles and cable gland, etc for compound light post.	Providing and laying of HDPE pipe for incoming and outgoing line for compound light post. ; - 32mm dia HDPE conduit pipe	Providing and fixing 1.1kV grade PVC insulated copper conductor from fittings to marshalling box: - P/D 2x2.5 Sq.mm 1.1kVG PVC insul. copper conds.	on	COMPOUND ELECTRIFICATION FOR BHU AND PSSD (ELECTRICAL)
50.00 s 2.00 s 2.00					50.0	50.0		110.00	960.00	id,	75.00	360.00	(contrast)	Quantity
o set o set								o Mtr	o Mtr		o Mtr	o Mtr	-	Unit
													Figure	Z.
													Word	Rate (Nu.)
														Amount (Nu.)



1	1,00 set	recomanded by the manufacturer	13.0
		required(KOTSONS(ResQ), Schneider Electric / ABB Make or equivalent)	17
	. "	Proposed PSS 500KVA Sub-station (actual length/cable size as recommanded by	
	1.00 set	testing and commissioning of 500 kVA, 33/0.415kv package sub-station with HT Compartment having RMU,having HT metering Proivsion, Supply and laying of 33 KV Aluminium Conductor crosslinked polyethylene PVC Sheathed XLPE UG Cable,3	12.0
	1.00 set	CTener	11.0
	2.00 no	Supply and fixing of 250x180x100 metal box with din bar and hinged, lockable cover.	10.3
	2.00 no	Supply and fixing of 32A 3 pole contactor, 440V with single phase solenoid coil	10.2
	2.00 no	Supply and fixing of electronic timer switch double pole,7days/24hrs, 50Hz, sensitivity 30mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required	10.1
		Timer switch and contactor	10.0
	1.00 no	Providing & fixing 4pole MCCB, 315A,415V, 36KA breaking capacity	, 9.2
	1.00 no	Providing & fixing 4pole MCCB, 250A,415V, 36KA breaking capacity.	9.1
		MCCB	9.0
	2.00 no	Providing & fixing feeder piller of MS sheet metal box 1000mm long 500mm wide 1200mm high (external) with fitted in busbars and to house in meters, Main Switches, timer switch and any other auxiliaries	8.1
	48.0	Switch Gear Boxes	8.0
	2.00 no	Switch gear stand with RCC 1000x500x1200mm(ratio 1:2:4)	7.1

ational Health and Safety	Total for Occupational Health and Safety			
		sum:	Providing basic necessary personal protective equipment (PPE) likes safety helmet, protective gloves, safety shoes/ gumboot, safety belt, dust mask for the construction workers and common protection measures (CPMs) like First Aid tool box with aid kits, Adequate safety signs and signboards, Housekeeping, etc	
Words	Figure		St.No Description	SI.No
Rates (Nu) (Amount (Nu)		Unit	R OCCUPATIONAL HEALTH AND SAFETY (OHS)	R

