

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

SUMMARY OF COST

S.N.	Description	Amount as per Detailed Estimate (Value in Lakhs)		Remarks
		DSR-2021	Market Rate	
1	OFFICE BUILDING (G+3) RCC FRAME STRUCTURE AREA = 1077.21 SQM	421.36	131.08	
2	ADD INTERIOR WORKS AND GATE & TOILET & GUARD ROOM FOR OFFICE BUILDING AS PER THE ENCLOSED DETAILED ESTIMATE.	17.77	9.44	
3	GUEST HOUSE (S/S) RCC FRAMED STRUCTURE AREA = 80.00 SQM	25.88	0.71	
4	ESS (S/S) RCC FRAMED STRUCTURE AREA = 40.00 SQM	9.42	0.26	
5	PUMP HOUSE (S/S) RCC FRAMED STRUCTURE AREA = 12.00 SQM	2.61	0.08	
6	SENTRY BOOTH (S/S) RCC FRAMED STRUCTURE AREA = 5.00 SQM	1.38	0.08	
	SUB TOTAL (A)	478.42	141.65	
	ADD FOR EXTERNAL SERVICES DEVELOPMENT WORK INCLUDING RETAINING WALL	210.30	43.09	
	ADD FOR FURNITURE		69.08	
	SUB TOTAL (B)	688.72	253.82	
	ADD CI 144 OF SHILLONG ON PAR 2021 AND ON DSR-21 AS ON 01.10.2022 i.e 44%	303.04		
	SUB TOTAL (C)	991.75	253.82	
	AMOUNT DUE TO CHANGED RATE OF GST FROM 12% TO 18% i.e 5.36%	53.16		
	SUB TOTAL (D)	1044.91	253.82	
	SUB TOTAL (E)		1298.73	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT,
SHILLONG.

S.No.	PARTICULARS OF ITEMS	Amount As per Detailed BOQ	
		DSR Items	NSR Items
1	OFFICE BUILDING		
	Civil Work	2,96,85,918.73	2,66,228.13
	Plumbing Work	10,87,232.70	47,030.00
	Electrical Work,CCTV SYSTEM & IP BASED EPABX SYSTEM	21,38,691.00	18,74,168.00
	Fire Fighting Work	36,12,556.00	1,39,242.00
	Extra for Exterior Work i.e Facade Tiles with T-System etc.		1,06,50,000.00
	8 Passengers Lift (2 Nos)	32,00,000.00	
	VRV/VRF AC SYSTEM	24,11,297.00	1,31,540.00
	Total	42135695.43	13108208.13
2	ADD INTERIOR WORKS AND GATE & TOILET & GUARD ROOM FOR OFFICE BUILDING AS PER THE ENCLOSED DETAILED ESTIMATE.		
	Civil Work	17,77,000.43	9,44,000.00
	Total	1777000.432	944000
3	GUEST HOUSE		
	Civil Work	22,92,274.01	
	Plumbing Work	1,84,209.67	
	Electrical Work	1,11,056.76	71,077.48
	Total	2587540.438	71077.48
4	ELECTRICAL SUB STATION		
	Civil Work	8,49,160.19	
	Electrical Work	93,132.00	25,770.00
	Total	942292.1945	25770
5	PUMP HOUSE		
	Civil Work	2,36,502.60	
	Electrical Work	24,628.00	8,200.00
	Total	261130.5965	8200
6	SENTRY BOOTH		
	Civil Work	1,21,287.18	
	Electrical Work	16,751.00	8,200.00
	Total	138038.1765	8200

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

SUMMARY OF COST (CIVIL WORK)

S. No.	Description	Amount (Rs.)
1	EARTH WORK	1003750.36
2	CONCRETE WORK	428660.84
3	REINFORCED CEMENT CONCRETE	17378763.70
4	BRICK WORK	3316270.49
5	MARBLE WORK	54961.51
6	WOOD WORK & PVC WORK	1263026.86
7	STEEL WORK	1021852.13
8	FLOORING	1879089.89
9	FINISHING	2800271.13
10	WATER PROOFING	539271.84
	Total	29685918.73
	Non DSR Amount	266228.13
	Grand Total	266228.13

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

SUMMARY OF COST (SANITARY WORK)

S. No.	DESCRIPTION	AMOUNT (Rs.)
1	EARTH WORK	27785.30
2	ROOFING	43695.85
3	SANITARY INSTALLATIONS	556219.05
4	WATER SUPPLY	243624.80
5	SEWERAGE & DRAINAGE	215907.70
	TOTAL DSR ITEMS (A)	10,87,232.70
6	NON SCHEDULE ITEMS	47030.00
	TOTAL NON DSR ITEMS (B)	47,030.00

BILL OF QUANTITIES & DETAILED ESTIMATE (Internal Electrical RO Building)
 Project Name :- PROPOSED NEW RO BUILDING FOR NAVODAYA VIDYALAYA SAMITI

S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
		SUB-MAINS, POINT WIRING ACCESSORIES & MISCELLANEOUS						
1		COPPER WIRING WITH MODULAR SWITCHES IN PVC CONDUITS (SURFACE / RECESS)						
1.1	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.						
1.1.1	1.10.1	Group A	Each	19	1,015.00		19 285.00	
1.1.2	1.10.2	Group B	Each	25	1,182.00		29 550.00	
1.1.3	1.10.3	Group C	Each	44	1 467.00		64 548.00	
1.2	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Each	8	1 562.00		12 496.00	
1.3	1.55	Wiring for group controlled (looped) light point / fan point/exhaust fan point / call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.						
1.3.1	1.55.1	Group A	Each	18	649.00		11 682.00	
1.3.2	1.55.2	Group B	Each	48	743.00		35 664.00	
1.3.3	1.55.3	Group C	Each	156	858.00		1 33 848.00	
1.4	1.12	Wiring for light / power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	600	334.00		2 00 400.00	
1.5	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required.						
1.5.1	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	780	334.00		2 60 520.00	
1.5.2	1.14.10	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Metre	50	1 005.00		50 250.00	
1.5.3	1.14.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	Metre	50	1 365.00		68 250.00	

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S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
1.6	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.						
1.6.1	1.21.1	20 mm	Metre	250	128.00		32 000.00	
1.6.2	1.21.2	25 mm	Metre	1200	145.00		1 74 000.00	
2	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
2.1	1.24.1	5 / 6 A switch	Each	250	103.00		25 750.00	
2.2	1.24.2	2 way 5 / 6 A switch	Each	8	148.00		1 184.00	
2.3	1.24.3	15 / 16 A switch	Each	76	156.00		11 856.00	
2.4	1.24.4	3 pin 5 / 6 socket outlet	Each	85	122.00		10 370.00	
2.5	1.24.5	6 pin 15 / 16 A socket outlet	Each	50	197.00		9 850.00	
2.6	1.24.7	TV antenna socket outlet	Each	2	148.00		296.00	
2.7	1.24.8	Bell push	Each	1	140.00		140.00	
3		NS Supplying and fixing of RJ 45 socket outlet modular type on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	Each	78		685.00		53 430.00
4	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	42	369.00		15 498.00	
5	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	36	40.00		1 440.00	
6	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.						
6.1	1.27.1	1 or 2 Module (75mmX75mm)	Each	60	133.00		7 980.00	
6.2	1.27.2	3 Module (100mmX75mm)	Each	126	151.00		19 026.00	
6.3	1.27.3	4 Module (125mmX75mm)	Each	6	158.00		948.00	
6.4	1.27.4	6 Module (200mmX75mm)	Each	6	182.00		1 092.00	
6.5	1.27.5	8 Module (125mmX125mm)	Each	18	211.00		3 798.00	
6.6	1.27.6	12 Module (200mmX150mm)	Each	28	271.00		7 588.00	
7	1.35	Installation , Testing, Commissioning of wall bracket / ceiling fittings of all sizes and shapes containing upto two GLS / CFL / LED lamps per fitting, complete with all accessories including connections etc. as required.	Each	264	119.00		31 416.00	

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S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
8	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	1	99.00		99.00	
9	1.45	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	46	339.00		15 594.00	
10	DSR 2021 Civil 10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	46	185.95		8 553.70	
11	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.						
	1.50.1	Upto 450 mm sweep	Each	10	450.00		4 500.00	
12	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	10	207.00		2 070.00	
13	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.						
	13.1	1 run of cable	Metre	1100	57.00		62 700.00	
14	NS	Supply and erection of U-PVC Trunking/Channel of following size including cost of fixing on wall, floor and ceiling etc. with required material complete the job in all respect up to entire satisfaction of the Engineer-in-charge of work.						
	14.1	50x50 mm	Metre	45		425.00		19 125.00
15	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	150	47.00		7 050.00	
16		NETWORK SWITCH						
		Supply, installation, testing and commissioning of Network Switch Hub in the Mounting Rack complete in all respect as mentioned below:-						
	16.1	48 Port	Each	3		64 200.00		1 92 600.00
PANEL, MCB DBs, MCBs & ACCESSORIES								

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S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount		
					(DSR)	(NSR)	(DSR)	(NSR)	
17		NS	MAIN PDB						
17.1			Design, Supply, Erection, Testing and Commissioning of Main PDB Indoor Type with degree of protection IP-54 Fabricated from 2mm thick CRCA sheet and MS channel of size 75mmX40mmX3mm at the base & MS flate of suitable size. The panel should be duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency and front and back side openable doors for each switch / BBC etc. each door should be vermin / dust proof the panel shall be nicely painted after powder coated superior quality paint after degerasing & phosphate treatment. The panel should be marked with incoming and outgoing feeders. The panel is to be installed at site by making suitable arrangements and should be bonded to the existing earth with the help of spring washers, thimblies etc.to secure firm contact. The job includes the main interconnections (duly tape) with solid copper / providing and fixing aluminium bus bars and for housing the following MCCBs, MCBs provided and fixed with interconnections separately mentioned underneath. The Panel should be as per approved design & specification and Single Line Diagram. The Panel should be manufactured by CPRI certified manufacturer only.	Each	1			2 03 249.00	2 03 249.00
17.2	2.2		Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.						
17.2.1	2.2.13		100 A, 30KA, FP MCCB	Each	8	7 723.00		61 784.00	
17.2.2	2.2.16		250 A, 36KA, FP MCCB	Each	6	17 510.00		1 05 060.00	
17.2.3	2.2.19		630 A, 50KA, FP MCCB	Each	1	43 092.00		43 092.00	
17.3	2.13		Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
17.3.1	2.13.2		63 A	Each	6	1 034.00		6 204.00	
18		NS	HVAC PANEL						

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S. No.	DSR 2022 Ref	Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
						(DSR)	(NSR)	(DSR)	(NSR)
18.1			Design, Supply, Erection, Testing and Commissioning of HVAC PANEL Indoor Type with degree of protection IP-54 Fabricated from 2mm thick CRCA sheet and MS channel of size 75mmX40mmX3mm at the base & MS flate of suitable size. The panel should be duly compartmentalized for incomer, bus section, outgoings, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency and front and back side openable doors for each switch / BBC etc. each door should be vermin / dust proof the panel shall be nicely painted after powder coated superior quality paint after degerasing & phosphate treatment. The panel should be marked with incoming and outgoing feeders. The panel is to be installed at site by making suitable arrangements and should be bonded to the existing earth with the help of spring washers, thimblies etc.to secure firm contact. The job includes the main interconnections (duly tape) with solid copper / providing and fixing aluminium bus bars and for housing the following MCCBs, MCBs provided and fixed with interconnections separately mentioned underneath. The Panel should be as per approved design & specification and Single Line Diagram. The Panel should be manufactured by CPRI certified manufacturer only.	Each	1			96 482.00	
18.2	2.2		Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.						
18.2.1	2.2.13		100 A, 30KA, FP MCCB	Each	4	7 723.00		30 892.00	
18.2.2	2.2.16		250 A, 36KA, FP MCCB	Each	1	17 510.00		17 510.00	
18.3	2.13		Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
18.3.1	2.13.2		63 A	Each	6	1 034.00		6 204.00	
			MCCB, DISTRIBUTION BOARDS, MCB's, RCCB's, CHANGE OVER etc.						
19	2.4		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)						
19.1	2.4.1		4 way (4 + 12), Double door (HVAC Indoor Unit Floor DBs)	Each	3	4 091.00		12 273.00	
19.2	2.4.2		6 way (4 + 18), Double door (Floor Secondary LDBs)	Each	6	4 974.00		29 844.00	
19.3	2.4.3		8 way (4 + 24), Double door (Floor Secondary PDBs)	Each	6	5 967.00		35 802.00	

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S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
20	2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
20.1	2.5.1	4 way (4 + 12), Double door (Floor Primary LDBs and PDBs)	Each	6	7 512.00		45 072.00	
21	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
21.1	2.10.1	Single Pole	Each	227	256.00		58 112.00	
22	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
22.1	2.13.2	63 A	Each	12	1 034.00		12 408.00	
22.2	2.13.3	100 A	Each	15	1 227.00		18 405.00	
23	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
23.1	2.14.3	63 A	Each	18	2 722.00		48 996.00	
24	2.24	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc.as required.						
24.1	2.24.1	For 4 way, Double door TPN MCBDB	Each	3	1 080.00			
24.2	2.24.2	For 6 way, Double door TPN MCBDB	Each	6	1 124.00			
24.3	2.24.3	For 8 way, Double door TPN MCBDB	Each	6	1 340.00			
25	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	42	9.00		378.00	
LIGHTING FIXTURES AND FANS								
LED 2'x2' PANEL LIGHT								

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S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
26		NS Supply of recessed mounting type Led light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.						
26.1		2'x2' 40 Watt Panel, color temp 3000-6500k as required.	Each	96		2 842.00		2 72 832.00
		LED DOWN LIGHTER						
27		NS Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job..						
27.1		9 Watt, color temp 3000-6500k as required.	Each	112		134.00		15 008.00
		LED TUBE ROD FIXTURE						
28		NS Supplying LED tube rod comprising of LED tube with nonintegral / integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job. Tube light LED:						
28.1		1 X 10Watt Integral i/c batten aluminium body, PC diffuser. (For Mirror Light)	Each	16		154.00		2 464.00
28.2		1 X 20Watt Integral i/c batten aluminium body, PC diffuser.	Each	36		167.00		6 012.00
		LED BULK HEAD LIGHT						
29		NS Supplying approved make LED bulkhead ABS body, PC diffuser including fixing on wall as required, with necessary material complete						
29.1		10 Watt, IP 55	Each	4		258.00		1 032.00
		1200 MM SWEEP CEILING FAN						
30		NS Supplying Ceiling fans IS marked (as per IS code 374) with suitable GI pipe complete in all respects complete as per directions of Engineer-in-charge.						

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S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
30.1		48" (1200mm)	Each	46		2 300.00		1 05 800.00
		1200 MM SWEEP CEILING FAN						
31	NS	Supplying Exhaust Fan (as per IS code 374) having a capacity of 45 cubic metre per minute complete with suitable G.I sheet ducting in structure confirming to latest IS specifications complete in all respect to satisfaction of Engineer-in-charge.	Each	10		1 499.00		14 990.00
		CABLES AND CABLE TRAYS						
	NS	XLPE INSULATED LT POWER CABLE SUPPLY, CU. / AL. CONDUCTOR						
32		Supplying XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core / 2 core / 3 core / 3½ core / 4 core ISI marked with Cu. / Al. stranded / solid conductor)						
		Armoured 3 core Cu. Conductor						
32.1		2.5 sq. mm Cu. Conductor	Metre	300		110.00		33 000.00
		Armoured 4 core Cu. Conductor						
32.2		4 sq. mm Cu. Conductor	Metre	50		123.00		6 150.00
		3½ core armoured Al. Conductor						
32.3		25 sq. mm. Al. Conductor	Metre	230		185.00		42 550.00
32.4		35 sq. mm. Al. Conductor	Metre	60		239.00		14 340.00
32.5		50 sq. mm. Al. Conductor	Metre	120		291.00		34 920.00
32.6		300 sq. mm. Al. Conductor	Metre	80		1 369.00		1 09 520.00
		LT CABLE LAYING						
33.1	7.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.						
33.1.1	7.5.1	Upto 35 sq. mm	Metre	300	37.00		11 100.00	
		7.8						
33.2	7.8	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.						
33.2.1	7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	340	45.00		15 300.00	
33.2.2	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	120	92.00		11 040.00	
33.2.3	7.8.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Metre	80	185.00		14 800.00	
		9.1						
34	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.						

BILL OF QUANTITIES & DETAILED ESTIMATE (Internal Electrical RO Building)
 Project Name :- PROPOSED NEW RO BUILDING FOR NAVODAYA VIDYALAYA SAMITI

S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
34.1	9.1.7	3 X 10 sq. mm (22mm)	Each	31	257.00		7 967.00	
34.2	9.1.20	3½ X 25 sq. mm (28mm)	Each	2	313.00		626.00	
34.3	9.1.21	3½ X 35 sq. mm (32mm)	Each	12	369.00		4 428.00	
34.4	9.1.22	3½ X 50 sq. mm (35mm)	Each	24	413.00		9 912.00	
34.5	9.1.30	3½ X 300 sq. mm (70mm)	Each	4	1 195.00		4 780.00	
		CABLE TRAYS						
35	4.1	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.						
35.1	4.1.7	600 mm width X 50 mm depth X 2.0 mm thickness	Metre	100	1 366.00		1 36 600.00	
		EARTHING						
36	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	7 472.00		14 944.00	
37	5.9	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection / terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	30	144.00		4 320.00	
38	5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	5	706.00		3 530.00	
39	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	30	244.00		7 320.00	
40	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	60	57.00		3 420.00	
		LIGHTING CONDUCTOR						
41	6.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	2	448.00		896.00	

BILL OF QUANTITIES & DETAILED ESTIMATE (Internal Electrical RO Building)
 Project Name :- PROPOSED NEW RO BUILDING FOR NAVODAYA VIDYALAYA SAMITI

S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount		
					(DSR)	(NSR)	(DSR)	(NSR)	
42	6.4		Joining copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	Each	4	93.00		372.00	
43	6.9		Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Rm	60	65.00		3 900.00	
44	6.1		Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Rm	50	131.00		6 550.00	
45	6.12		Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	4	102.00		408.00	
46	6.15		Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Rm	50	63.00		3 150.00	
CCTV SYSTEM									
IP BULLET CAMERA									
47	NS		Supply, installation testing and commissioning of the IP bullet camera shall be equipped with a 1/2.5" 8 MP progressive scan CMOS imager to capture ultra HD 4K / 8 MP resolution at 15 fps or 3 MP at 25/30 fps, a 4.0 mm fixed lens, and a waterproof (IP66) IK10 impact-resistant camera housing, as a true day/night solution, the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. illumination:0.07 lux (color)/0 lux (B/W) @ F2.0 (with IR LEDs on) video compression:- H.265, noise reduction: 3DNR, Backlight Compensation:- DWDR, angle of view horizontal: 88° vertical: 48°, UL listed	Each	3		34 963.00	1 04 889.00	
5 MP IP IR fixed lens dome camera									
48	NS		Supply, installation testing and commissioning of the IP mini dome camera shall be equipped with a 1/2.5" 5 MP progressive scan CMOS imager to capture ultra HD 4K / 5 MP resolution at 15 fps or 3 MP at 25/30 fps, a 4.0 mm fixed lens, and a waterproof (IP66) IK10 impactresistant camera housing, as a true day/night solution, the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. Illumination:-0.1 lux (color)/0 lux (B/W) @ F1.6 (with IR LEDs on)video compression :- H.265 , noise reduction: 3DNR, backlight compensation :- DWDR, angle of view horizontal: 88° vertical: 48°, UL listed	Each	6		16 805.00	1 00 830.00	

BILL OF QUANTITIES & DETAILED ESTIMATE (Internal Electrical RO Building)
 Project Name :- PROPOSED NEW RO BUILDING FOR NAVODAYA VIDYALAYA SAMITI

S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
					(DSR)	(NSR)	(DSR)	(NSR)
		16 channel NVR with 1 SATA						
49	NS	Supply, installation testing and commissioning of 16 ch network video recorder with real-time recording: up to 4 MP resolution live view, preview and playback/up to 16 channels at 1080p,with inbuilt PoE, up to 1TB supports complete with UL certification	Each	1		10 333.00		10 333.00
50	NS	Supply, installation testing and commissioning of CCTV System Digital Keyboard with PTZ Joystick complete as required and to the full satisfaction of the Engineer-in-charge.	Each	1		2 28 345.00		2 28 345.00
51	NS	Supply, installation testing and commissioning of Layer 3 PoE 24-port Access Switch for CCTV System complete as required and to the full satisfaction of the Engineer-in-charge.	Each	1		85 667.00		85 667.00
		IP EPABX Systems						
52	NS	Supply, installation, testing and commissioning of IP PBX system of approved make complete in all respect to the full satisfaction of the Engineer-in-charge.	Each	1		2 17 082.00		2 17 082.00
		TOTAL					21 38 691.00	18 74 168.00

BILL OF QUANTITIES & DETAILED ESTIMATE (Fire Fighting System RO Building)									
Project Name :- PROPOSED NEW RO BUILDING FOR NAVODAYA VIDYALAYA SAMITI									
S. No.	DSR 2022 Ref.	Non-SOR	Description	Unit	Quantity	Unit Rate		Amount	
						(DSR)	(NSR)	(DSR)	(NSR)
SUB-MAINS, POINT WIRING ACCESSORIES & MISCELLANEOUS									
1	DSR 2022 18.1		(A) Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required: (B) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. (C) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (D) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. (E) Suitable cement concrete foundation duly plastered with anti vibration pads.						
1.1	18.1.8		1620 lpm at 70 m Head Note:* The head of the pump is selected in a manner so as to give a minimum 3.5kgf / cm ² pressure at the highest / farthest point.	Set	1	3 31 972.00		3 31 972.00	
2	DSR 2022 18.2		(A) Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Diesel Driven Pump) (B) Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. (C) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required. (D) M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required. (E) Suitable cement concrete foundation duly plastered and with anti vibration pads.						
2.1	18.2.8		1620 lpm at 70 m Head Note:* The head of the pump is selected in a manner so as to give a minimum 3.5kgf / cm ² pressure at the highest / farthest point.	Set	1	5 92 194.00		5 92 194.00	
3	DSR 2022 18.3		(A) Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump) (B) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520. (C) Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325. (D) M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. (E) Suitable cement concrete foundation duly plastered and with anti vibration pads.						
3.1	18.3.2		180 lpm at 70 m Head	Set	1	1 03 304.00		1 03 304.00	
4	DSR 2022 18.4		(A) Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump) (B) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520 (C) Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (D) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required. (E) Suitable cement concrete foundation duly plastered and with anti vibration pads.						
4.1	18.4.2		450 lpm at 35 m Head	Set	1	86 203.00		86 203.00	
CONTROL PANELS									

6		NS	Supplying erection, testing of fully automatic electric control panel board for Terrace Pump consisting of MS sheet of thickness 14 gauge duly painted box type floor mounted made of angle Frame containing 1 no. fully automatic air brake starter suitable for Motor of the following capacity, Incoming MCCB of 100A, 1 no. volt meter (0 to 500 volts), 1 No. Amp. Meter of 0 to 100 amp. 3 sets of indicating lamp capacitor of suitable capacity and 1 no. single phase preventers with the timer switch including wiring in panel board and suitable electric energy meter wiring in Electric Control Panel Board complete in all respect as per specification given in Schedule No. II, Including MCB, suitable, Capacitor, Wooden Box etc as per site requirement complete in fal respect. Make:- L&T, SIEMENS, BCH, SCHNEIDER.						
6.1			10 HP Motor	Each	1		12 984.00		12 984.00
			PIPES & ACCESSORIES						
7	DSR 2022	18.6	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.						
7.1		18.6.2	150 mm. Dia	Metre	12		3 804.00		45 648.00
8	DSR 2022	18.7	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required:						
8.1		18.7.1	25 mm dia	Metre	6		744.00		4 464.00
8.2		18.7.4	50 mm dia	Metre	6		1 281.00		7 686.00
8.3		18.7.6	80 mm dia	Metre	6		1 885.00		11 310.00
8.4		18.7.7	100 mm dia	Metre	18		2 555.00		45 990.00
8.5		18.7.8	150 mm dia	Metre	30		3 574.00		1 07 220.00
8.6		18.7.9	200 mm dia (wall thickness 6.3 mm)	Metre	6		5 463.00		32 778.00
9	DSR 2022	18.9	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required:						
9.1		18.9.1	Single headed Stainless Steel	Set	3		6 139.00		18 417.00
10	DSR 2022	18.11	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:						
		18.11.1	BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.						
10.1		18.11.1.2	50 mm dia.	Set	2		3 784.00		7 568.00
10.2		18.11.1.5	100mm dia.	Set	1		6 667.00		6 667.00
10.3		18.11.1.6	150mm dia.	Set	2		8 960.00		17 920.00
10.4		18.11.1.7	200mm dia.	Set	2		15 207.00		30 414.00
11	DSR Civil 2021	16.11	Supplying, fixing, testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specifications.						
		16.11.2	NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating as specified.						
11.1		16.11.2.2	150mm dia.	Each	1		7 171.00		7 171.00
11.2		16.11.2.4	100mm dia.	Each	1		6 147.00		6 147.00
12	DSR 2022	18.15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.						
12.1		18.15.2	100mm dia	Each	1		6 664.00		6 664.00
12.2		18.15.3	150mm dia	Each	3		11 144.00		33 432.00
12.3		18.15.4	200mm dia	Each	2		22 265.00		44 530.00
			C.I. SLUICE VALVES / FIRE HYDRANTS & FIXTURES						
13	DSR 2022	18.12	Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required:						
13.1		18.12.4	80 mm dia	Set	1		10 696.00		10 696.00
13.2		18.12.5	100 mm dia	Set	1		14 428.00		14 428.00
13.3		18.12.6	150 mm dia	Set	6		22 550.00		135 300.00
13.4		18.12.7	200 mm dia	Set	2		39 133.00		78 266.00
14	DSR 2022	18.14	Providing, installation, testing and commissioning of non-return valve of following sizes conforming to IS:5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required:						
14.1		18.14.4	80 mm dia	Set	1		7 539.00		7 539.00
14.2		18.14.7	150 mm dia	Set	3		17 577.00		52 731.00
15	DSR 2022	18.13	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm ² complete as required.	Each	3		1 321.00		3 963.00

16	DSR 2022 18.16		Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required:						
16.1	18.16.2		Stainless Steel (Grade 304)	Each	6	4 448.00		26 688.00	
17	DSR 2022 18.17		Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.						
17.1	18.17.1		30 m	Set	3	8 675.00		26 025.00	
18	DSR 2022 18.18		Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required:						
18.1	18.18.2		Stainless Steel (Grade 304)	Each	3	1 662.00		4 986.00	
19	DSR 2022 18.19		Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required:						
19.1	18.19.1		2 way-100 mm dia M.S. Pipe	Set	1	6 742.00		6 742.00	
19.2	18.19.3		3 way-150 mm dia M.S. Pipe	Set	1	9 455.00		9 455.00	
20	DSR 2022 18.20		Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	Each	1	18 244.00		18 244.00	
21	DSR 2022 18.22		Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	Each	4	1 546.00		6 184.00	
22	DSR 2022		Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required.	Each	7	1 196.00		8 372.00	
22.1		NS	Providing and fixing Fire Axe with rubber bat as per equivalent IS Code of Newage / Safefire / CRC / Guard or equivalent approved reputed make.	Each	3		718.00		2 154.00
22.2		NS	Providing and fixing of weather proof standard fire hose 16 Gauge MS cabinet as per relevant IS code stand mounting type (2100mm x 900mm x 600mm deep) having single door opening with 4mm thick glass with M.S. fabricated stand, necessary locking arrangement by allan key suitable for housing 2 nos. hose pipe, 1 no. Branch pipe, nozzle spanner & Fire Axe of standard approved reputed make.	Each	3		8 612.00		25 836.00
23		NS	Providing and fixing Fire Extinguishers, Hand appliances complete including chemical or powder as per requirement vide relevant IS Code of Safex / Minimax / Cease Fire / Safeguard / Safefire of other equivalent approved reputed make. The cost also should include cost of lettering (Block or Small Letters):						
23.1			"CO2" type Fire Extinguisher of 4.5 Kgs. Capacity.	Each	6		7 606.00		45 636.00
23.2			"ABC" type Extinguisher of 4 Kgs. Capacity.	Each	6		5 742.00		34 452.00
23.3			Fire Water/Sand buckets (4 nos. with stand).	Set	2		1 015.00		2 030.00
24	DSR Civil 2021 10.1		Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1000	93.05		93 050.00	
INTELLIGENT FIRE ALARM SYSTEM									
25	DSR 2022	17.2.1	Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics / LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5% V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol BACnet/Modbus over IP complete as per specifications.						
25.1	17.2.1.2		Two Loop Panel	Each	1	2 39 225.00		2 39 225.00	
26	DSR 2022 17.2.2		Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required.	Each	1	2 00 611.00		2 00 611.00	

27	DSR 2022 17.2.3		Supplying, installation, testing & commissioning of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required.	Each	1	108 588.00		108 588.00	
28	DSR 2022 17.2.4		Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.	Each	105	2 858.00		3 00 090.00	
29	DSR 2022 17.2.5		Supplying, installation, testing & commissioning of response indicator on surface / recessed MS Box having two LED, metallic cover complete with all connections etc as required.	Each	40	276.00		11 040.00	
30	DSR 2022 17.2.6		Supplying, installation, testing & commissioning of intelligent addressable programmable sounder complete as required.	Each	6	2 651.00		15 906.00	
31	DSR 2022 17.2.7		Supplying, installation, testing & commissioning of fault isolator complete with base as required.	Each	6	3 270.00		19 620.00	
32	DSR 2022 17.2.14		Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Each	6	3 871.00		23 226.00	
33	DSR 2022 17.2.15		Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.	Each	6	3 506.00		21 036.00	
34	DSR 2022 17.2.18		Supplying, installation, testing & commissioning of intelligent interface unit BACnet / Modbus protocol i.e., supplying communication links between building management system and fire alarm control panel complete as required.	Each	1	1 87 744.00		1 87 744.00	
WIRING, CABLES AND CABLE TRAYS									
XLPE INSULATED LT POWER CABLE SUPPLY, CU. / AL. CONDUCTOR									
35		NS	Supplying XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core / 2 core / 3 core / 3½ core / 4 core ISI marked with Cu. / Al. stranded / solid conductor)						
3 CORE UNARMORED									
35.1			1.5 sqmm. Cu. Conductor	Metre	80	86.00		6 880.00	
3 CORE ARMORED									
35.2			2.5 sqmm. Cu. Conductor	Metre	15	110.00		1 650.00	
35.3			4 sqmm. Cu. Conductor	Metre	15	78.00		1 170.00	
35.4			35 sqmm. Al. Conductor	Metre	30	215.00		6 450.00	
LT CABLE LAYING									
36	DSR 2022 7.8		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.						
36.1		7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	140	45.00		6 300.00	
37	DSR 2022 9.1		Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.						
37.1		9.1.1	2 X 6 sq. mm (19mm)	Each	4	257.00		1 028.00	
37.1		9.1.2	2 X 10 sq. mm (22mm)	Each	4	257.00		1 028.00	
37.1		9.1.21	3½ X 35 sq. mm (32mm)	Each	4	369.00		1 476.00	
CABLE TRAYS									
38	DSR 2022 4.1		Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.						
38.1		4.1.1	100 mm width X 50 mm depth X 1.6 mm thickness	Metre	30	543.00		16 290.00	
39	DSR 2022 17.5.1		Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.	Metre	400	359.00		1 43 600.00	
40	DSR 2022 17.5.4		Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	Metre	30	53.00		1 590.00	
EARTHING									
41	5.15		Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	60	244.00		14 640.00	
42	5.16		Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	60	57.00		3 420.00	
TOTAL								36 12 556.00	1 39 242.00

Exterior Façade					
Item	Unit	Quantity	Rate	Amount	
<p>Providing and fixing of CLAYTON Extruded Hollow Clay / Terracotta Ventilated Rainscreen Façade Tiles of grid dimensions 300mm (c/c) x 800mm (c/c) x 16mm thickness in a horizontal direction on the building facade. The extruded hollow clay tile cladding material shall be rigid and of adequate strength and shall have a minimum total thickness of 16 mm ($\pm 10\%$). The tiles shall be installed using the ventilated rainscreen principle, with provision for natural ventilation of the space between the façade tiles and the structural wall</p>	Sqm	1238.084	8602	10650000	
<p>The clay tiles shall be of the hollow type, fixed to a supporting aluminium framework consisting of vertical 'T' / 'L' / Tube sections measuring 80x60x2mm/ 40x60x2mm/ 40x40x2mm respectively, spaced at maximum 800mm c/c intervals matching to the tile vertical grid, and horizontal aluminium 'C'-clamps measuring 56x25mm x 150mm/ 75mm length fixed on top of the vertical sections at maximum 300mm c/c matching to the tile horizontal grid</p>					
<p>The vertical 'T'/'L'/'Tube' sections shall be fixed to the wall using HDG Steel L-brackets and Hilti/ Fischer stainless steel anchor fasteners for MS framework/ brickwork/ concrete as applicable, spacing to be based on a structural/ static calculation. The brackets shall be fixed to the vertical aluminium T / L / Tube profiles using two stainless-steel self-drilling/ selftapping screws of dimensions 5.5 x 25mm. The horizontal aluminium 'C'-clamps shall be fixed on top of the vertical aluminium 'T'/'L'/'Tube' sections from front using two stainless steel selfdrilling/ self-tapping screws. The tiles shall be mounted on the C-clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be additionally secured to the horizontal C-clamps using special stainless steel clips which shall be inserted and pressed into position on the C-clamps holding the tiles. In certain cases, instead of securing the tiles with clips, the tiles shall be glued at points to the horizontal C-clamps using an MS Polymer Sealent adhesive. The vertical joint between adjacent tiles to be a 6mm open groove</p>	Sqm				
Total				10650000	

BILL OF QUANTITIES & DETAILED ESTIMATE (VRV / VRF System RO Building)									
Project Name :- PROPOSED NEW RO BUILDING FOR NAVODAYA VIDYALAYA SAMITI									
S. No.	DSR 2019 Ref.	Non-SOR Ref.	Description	Unit	Quantity	Unit Rate		Amount	
						(DSR)	(NSR)	(DSR)	(NSR)
OUTDOOR UNIT									
1	1		Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/ Variable Refrigerant Volume aircooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R410A Refrigerant, vibration isolators, with suitable foundation, etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5	HP	90	16 315.00		14 68 350.00	
INDOOR UNIT - CASSETTE TYPE									
2	2		Supply, installation, testing and commissioning of following minimum capacity 4-way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan / dynamically balanced blower, multi speed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cordless remote control, etc., suitable for operation on single phase 230V ±10%, 50Hz AC supply, complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.						
2.1	2.2		1 TR	Each	4	29 137.00		1 16 548.00	
2.2	2.4		1.6 TR	Each	1	30 204.00		30 204.00	
2.3	2.6		2.4 TR	Each	2	31 453.00		62 906.00	
2.4	2.7		2.8 TR	Each	3	32 015.00		96 045.00	
INDOOR UNIT - HIGH WALL TYPE									
3	3		Supply, installation, testing and commissioning of following minimum capacity VRV/VRF Highwall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan / dynamically balanced blower, multi speed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cordless remote control, drain pan, necessary accessories, etc., suitable for operation on 230V ± 10%, 50Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.						
3.1	3.2		0.8 TR	Each	6	19 312.00		1 15 872.00	
3.2	3.3		1 TR	Each	2	19 700.00		39 400.00	
3.3	3.4		1.3 TR	Each	5	21 176.00		1 05 880.00	
3.4	3.5		1.45 TR	Each	4	21 315.00		85 260.00	
COPPER REFRIGERANT PIPING									
4	5		Supply, installation, testing and commissioning including vacuumization and Nitrogen testing of following nominal sizes of soft / hard drawn copper refrigerant piping for VRV / VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing / brazing including accessories, insulated with XPLE Class-O tubular insulation / with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications, etc. as required:						
4.1	5.1		6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	74	245.00		18 130.00	
4.2	5.2		9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	68	331.00		22 508.00	
4.3	5.3		12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	59	466.00		27 494.00	
4.4	5.4		15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	61	588.00		35 868.00	
4.5	5.5		19 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	52	707.00		36 764.00	
4.6	5.6		22.2 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	52	865.00		44 980.00	
4.7	5.8		28.58 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	46	1 108.00		50 968.00	
4.8	5.10		34.9 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	M	44	1 230.00		54 120.00	
CONDENSATE DRAIN PIPING									
5		NS	Supply, installation, testing and commissioning of UPVC condensate drain water piping of density 20 Kg/m ³ complete with fittings like elbows, tees, reducers, bends, flanges, supports, insulation etc. as required and of following sizes.						
5.1			25 mm dia pipe, Insulation Thickness - 9 mm	M	190	302.00		57 380.00	
5.2			32 mm dia pipe, Insulation Thickness - 9 mm	M	120	384.00		46 080.00	
5.3			40 mm dia pipe, Insulation Thickness - 9 mm	M	60	468.00		28 080.00	
TOTAL								24 11 297.00	1 31 540.00

PROJECT:- PROPOSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYALAYA SAMITI (NVS) AT SHILLONG (MEGHALAYA).

DSR 2021 SR. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
1	26.22	CALCIUM SILICATE FALSE CEILING				
		Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mmthick (galvanized @ 120 grams per sqm including both sides)comprising of main-T runners of size 24x38 mm of length 3000 mm,cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to formgrid module of size 600 x 600 mm, suspended from ceiling usinggalvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with precut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The workshall be carried out as per specifications, drawing and as per directionsof the Engineer-inCharge: With 15 mm thick tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles Confirming to JIS-Z2801 and ASTM G-21	SQM	166	1981.2	327981.2
2	NS	ROLER BLINDS				

PROJECT:- PROPOSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYALAYA SAMITI (NVS) AT SHILLONG (MEGHALAYA).

DSR 2021 SR. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
NS	Roller Blinds : Manual E-OS 511 ROLLER BLINDS WITH OPTIMA SCREEN 5%. Supply of Roller Blinds from Hunter Douglas having the DRIVE UNIT shall be of moulded plastic with steel spring support and inserted into the tube end. It shall be driven by a ball chain pulley with ball chain and can be positioned at right side or left hand side of the Shade. The Shade when lowering or raising, shall be automatically locked in position upon release of the ball chain by means of a built in friction lock. The END PLUG shall be molded of plastic with a steel location pin. The plug shall be inserted into the tube end. (Opposite to the Drive Unit).The SUPPORT BRACKETS shall be of coated steel & provided with covers and used in right hand or left hand positions differentiated by the acceptance of the of the rectangular drive unit support or the round idler plug pin. The ROLLER TUBE shall be of extruded aluminum with 38mm internal diameter & skin thickness of 1mm and shall incorporate a keyway integral with the tube to accommodate the spine. The outside diameter of the roller tube shall be 40mm.The BOTTOM RAIL shall be a stiffening element inserted into a bottom rod pocket. The material may be timber, PVC covered steel tube or VB Bottomrail. The BALLCHAIN shall be 2mm diameter cord with 4.5mm diameter acetal balls molded co-axially to it on 6mm pitch to form an endless ballchain. It is used for raising or lowering action of the shades. The FABRIC will be 100% PVC free with no Volatile Organic Compounds recommended for clean room condition , having no bacterial fungal emission and satisfying NFPA fire safety standard , shall be as per selection from the Hunter Douglas range and shall be sized according to site requirement (subject to maximum width limitation of individual fabric types). A bottom pocket shall be created in the fabric to incorporate the bottom rail.	SQM	67.62	2460	166345.2
3	NS				
	SENSOR BASED AUTOMATIC DOOR				

PROJECT:- PROPOSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYALAYA SAMITI (NVS) AT SHILLONG (MEGHALAYA).

DSR 2021 SR. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NS	Providing & Fixing of Automatic Bi-Parting Sliding Door Operator Dormakaba ES 200 or OZOM-111E-Plus (N) or similar with frameless 12 mm clear toughened glass moving door panels and side fixed panels with wall connecting profile, Modular Design including internal cover with operator dimensions 100mm W x 130mm H x 4.2 Mtr L for max. opening size of 2.0Mtr Wide & Weight capacity for Double Leaf Door is 2*120 Kg. Microprocessor Controller unit will be self learning with adjustable parameters for opening & closing speed, hold open time, reversing when obstacles are encountered. Operator can be integrated with Microwave Sensor/Presence Detector Sensor/Foot Switch Sensor/Handwave sensor, Safety Beam (Light Barrier), Programmable Remote Control to Set different modes & Automatic Locking Mechanism, RFID/Biometric/Fingerprint/Access Card Control System & Push Button. Activators : Radar System 1 nos., and 1 no. wave switch. The system to be complete including all necessary fitting and accessories complete as per satisfaction of engineer-in-charge.(Area of opening- approx. upto 25 sqm)	NOS.	1	190880	190880	
4	NS	GLASS DOOR				
NS	Providing & Fixing of Otic-Particion System SL40 Door System with 6063-T6 Vargin grade duly Anodized Aluminium Sections having sizes of 40x55x1.5mm thick, 10 mm Toughened Glass including Ozone Door Closure, Hinges, Lever Handle / SS Handle (H Type 450mm), SS Bottom Lock, Silicone/Thermoplastic Gaskets & Screw Caps	NOS.	2	36000	72000	
5	2413	12 MM COMMERCIAL PLY				
		12 mm commercial ply.	SQM	113.68	510	57976.8
6	9.158	12 MM THICK MDF WITH LAMINATION				

PROJECT:- PROPOSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYALAYA SAMITI (NVS) AT SHILLONG (MEGHALAYA).

DSR 2021 SR. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9.158.1	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete. 12 mm thick	SQM	113.68	1065.15	121086.252
7	2414 18 MM THICK BLOCK BOARD WITH COMMERCIAL PLY				
	18 mm thick block board with commercial ply veneering on both side	SQM	7.76	775	6014
8	NS 12 MM THICK GOLDEN METAL STRIP				
	NS	RMT	127.64	300	38292
9	NS DECORATIVE ITEMS SUCH AS ARTEFACTS, SCLUPTURES, WALLPAPERS, GLASS FILMS, ETC.				
i	NS SMALL ARTEFACTS LIKE GLASS TORTOISE	LS	5	2500	12732
ii	NS BIG POTTED PLANTS	LS	10	7000	70000
iii	NS SMALL DUTSBIN (Plastic) (FOR INTERIOR)	LS	10	1500	15000
iv	NS SMALL POTTED PLANTS	LS	10	4500	45000
v	NS ARTEFACTS LUKE LAUGHING BUDDHA (FRP make) ON TABLE TOPS	LS	5	4000	20000
viii	NS FLOWER VASE(Ceramic & Glass make) TABLE TOPS	LS	10	3000	30000
viii	NS PORTABLE GLASS WATER FOUNTAIN	LS	1	55000	55000
viii	NS Wall Paintings customized look of size 1500x1200mm	LS	10	4500	45000
10	NS WOODEN FLOORING				

PROJECT:- PROPOSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYALAYA SAMITI (NVS) AT SHILLONG (MEGHALAYA).

DSR 2021 SR. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Providing and fixing of Easy laminated wooden flooring with thickness of 8.3mm, length of 1212 and width of 195mm the grade of material is AC 4 with waxed locking, quick and easy to fit, easy to install and self-aligning the density of flooring is 880 > kg/m ³ along with moisture contained of 6%. The static bending strength is > 30 along with elastic modulus > 3000mpa. The internal bonding strength >1.0 mpa. the surface soundness > 1.0mpa formaldehyde emission is < 1.5mg/ltr. The level difference between board is < 0.1mm The angle difference (90 degree) < 0.15mm. The banana effect is < 0.15mm the colour difference (is no difference). The abrasion test is > 6000 cycle (AC 4). The weight overlay is > 45 (AC 4) GSM. The range comes with a 2 - year commercial warranty and a 10 year residential warranty. The fixing of wooden flooring will be done with 2mm thick biton sheet along with bedding, skirting, profile etc Complete. The floor level should be zero level provided by clients end. The colours will be finalised by Engineer-in-charge.	SQM	49	3750	183750
Total sum interior(DSR items)				513058.252	
Total Sum interior (NS items)					
Add Amount for Gate				1263942.28	
TOTAL INTERIOR AND GATE (DSR)			Say	1777000.432	
TOTAL INTERIOR AND GATE (NDSR)			Say		944000

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT
GUEST HOUSE

SUMMARY OF COST (CIVIL WORK)

S. No.	Description	Amount (Rs.)
1	EARTH WORK	1,13,104.64
2	CONCRETE WORK	1,02,746.38
3	REINFORCED CEMENT CONCRETE	8,98,690.89
4	BRICK WORK	3,00,615.83
5	MARBLE WORK	10,569.58
6	WOOD WORK & PVC WORK	2,21,026.87
7	STEEL WORK	2,47,793.83
8	FLOORING	1,16,900.17
9	ROOFING	1,066.40
10	FINISHING	2,09,916.43
11	WATER PROOFING	69,843.00
	Sub Total	22,92,274.01

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST K GUEST HOUSE		
SUMMARY OF COST (SANITARY WORK)		
S. No.	DESCRIPTION	Amount
1	EARTH WORK	1,005.57
2	ROOFING	3,283.30
3	SANITARY INSTALLATIONS	1,25,434.30
4	WATER SUPPLY	43,239.30
5	SEWERAGE & DRAINAGE	11,247.20
	TOTAL	1,84,209.67

GUEST HOUSE			
SUMMARY OF COST (ELECTRICAL WORK)			
		Amount	
SUBHEA	PARTICULARS	DSR ITEMS	NS ITEMS
I	WIRING	76,490.76	
II	SUPPLY OF FITTINGS AND FANS	6,379.00	
III	BOARDS & DISTRIBUTION BOARDS	17,412.00	
IV	EARTHING	10,775.00	-
	TOTAL	1,11,056.76	71,077.48

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILL

SUMMARY OF COST FOR ELECTRICAL WORKS (ELECTRIC SUB STATION)

S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	81741.00	
II	DISTRIBUTION BOARDS & MCB's	6845.00	
III	MISCELLANEOUS	1076.00	690.00
IV	INTERNAL LIGHTING FIXTURES & FANS	3470.00	24920.00
V	CABLE & ACCESSORIES		160.00
	Total C/F To Summary	93132.00	25770.00
	SAY IN LACS	0.93	0.26

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

BILL OF QUANTITIES FOR ELECTRICAL WORKS (ELECTRIC SUB STATION)

S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- INTERNAL WIRING						
(DSR'2018)						
		Point wiring in PVC conduit, with modular type switch :-				
1	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, with modular switch, modular plate , suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.2	Group B	Point	13.00	1182.00	15366.00
		Twin Control Point wiring in PVC conduit, with modular type switch :-				
2	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, 2 way modular switch, modular switch, suitable M.S. box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	1.00	1562.00	1562.00
		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class pvc conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	M	60.00	334.00	20040.00
		Circuit / Sub main wiring in PVC conduit :-				
	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	10.00	233.00	2330.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	70.00	275.00	19250.00
4	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	30.00	570.00	17100.00
		S/F light plug point Modular type accessories :-				
6	1.31	Supply and fixing of suitable size GI box with modular plate and cover in FRLS on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps. modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	Each	5.00	477.00	2385.00
		S/F power plug point modular type accessories :-				
7	1.32	Supply and fixing of suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps. modular switch, connection etc. as required.	Each	5.00	586.00	2930.00
		S/F modular type electronic fan regulator :-				
9	1.25	Supply and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	2.00	369.00	738.00
		S/F modular type blanking plate :-				
10	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	1.00	40.00	40.00
		TOTAL SUB HEAD (I) (DSR'2018)				81741.00
II SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's						
(DSR'2018)						
1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.10.1	single pole	Each	6.00	256.00	1536.00
2	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	2.00	13.00	26.00
3		S/F DP MCB Isolator				
	2.12	Supplying and fixing following rating, double pole , 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc.				
	2.12.1	40 Amps	Each	1.00	435.00	435.00

		TOTAL SUB HEAD (IV) (DSR'2018)				3470.00
V		SUB HEAD (V) :- CABLE AND ACCESSORIES				
		CABLES SUPPLY				
		(NON-DSR'2018)				
1		Supply and making end termination with brass double compression gland including providing and crimping of aluminium/copper solderless lugs/ferrules for XLPE/ PVC armoured/ Unarmoured aluminium/copper conductor cable 1.1 KV grade of following sizes:				
i)		End Termination for Copper Conductor Armoured Cable				
	MR	2 x 10 sq.mm	Set	2.00	80.00	160.00
		TOTAL SUB HEAD (V) NON D.S.R. ITEMS				160.00

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

ABSTRACT OF COST
[ELECTRIC SUB STATION]

S.N.	DESCRIPTION OF ITEM	DSR-2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.						
	all kinds of soil	2.8.1	13.48	CUM	286.85	3866.74	
2	Supplying and stacking of good earth at site.	16.3.9	4.630	CUM	624.55	2891.67	
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	2.25	18.110	CUM	253.95	4599.03	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.27	4.63	CUM	2161.2	10006.36	
5	#REF!	4.1.10	6.22	CUM	6050.65	37635.04	
6	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately).						
(I)	Upto plinth level						
	(i) R.C.C. work in Footing	5.33.1	1.470	CUM	7997.3	11756.03	
	(ii) R.C.C. work in Beam	5.33.1	1.420	CUM	7997.3	11356.17	
	(iii) R.C.C. work in Columns	5.33.1	0.540	CUM	7997.3	4318.54	
(II)	Above plinth to floor-V lvl						
	Same as above but R.C.C. work above plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2	0.440	CUM	10080.15	4435.27	
	(ii) R.C.C. work in Beam	5.33.2	1.440	CUM	10080.15	14515.42	
	(iii) R.C.C. work in Columns	5.33.2	1.770	CUM	10080.15	17841.87	
	(iv) R.C.C. work in Slab	5.33.2	7.520	CUM	10080.15	75802.73	
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level . Thermo-Mechanically Treated bars of grade Fe-500D or more.	5.22.6	2.680	QTL.	8965	24026.20	
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level . Thermo-Mechanically Treated bars of grade Fe-500 D or more.	5.22.A.6	7.300	QTL.	8965	65444.50	
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	5.9.1	7.200	SQM	307.95	2217.24	
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	59.591	SQM	766.55	45679.79	
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	75.150	SQM	608.35	45717.50	
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	36.120	SQM	804.25	29049.51	
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	6.1.2	2.310	CUM	6658.25	15380.56	
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	6.4 6.4.2	9.680	CUM	8288.35	80231.23	
12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						

	Cement mortar 1:4 (1 cement :4 coarse sand)	6.13.2	13.200	Sqm	1018.05	13438.26	
13	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	6.15	13.20	SQM	86.45	1141.14	
14	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	14.85	48.150	SQM	615.00	29612.25	
15	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:	12.19					
	With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	12.19.1	48.150	SQM	549.05	26436.76	
16	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	9.20.1	6.960	SQM	3086.1	21479.26	
17	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	9.23	6.96	SQM	401.4	2793.74	
18	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer						
	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size	10.13.1	65.790	KG	114.65	7542.82	
19	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.	9.48.1	69.630	KG	181	12603.03	
20	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	10.11.1	102.120	KG	175.65	17937.38	
21	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.						
	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	10.15.1	102.49	Kg	146.55	15019.91	
22	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.	10.30.1	2.750	SQM	940.3	2585.83	
23	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	(DSR-10.29.2)	4.57	SQM	971.55	4439.98	

24	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	30.77	RM	64.7	1990.82	
25	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)	13.5.2	86.455	SQM	339.1	29316.89	
26	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)	13.4.2	110.70	SQM	294.35	32584.55	
27	6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)	13.16.1	48.01	SQM	253.05	12148.93	
28	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand).	13.5.1	11.670	SQM	354.5	4137.02	
29	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	4.17	24.750	SQM	681.65	16870.84	
30	Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75	16.7.1	28.00	RM	179.5	5026.00	
31	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	11.26.1	27.480	SQM	1706.6	46897.37	
32	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	11.27	4.730	SQM	2038.55	9642.34	
33	P/F curtain rods of 1.25mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs etc. wherever necessary complete (a) 25 mm dia.	(DSR-9.46.3)	4.22	RM	482.3	2035.31	
34	Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	12.00	SQM	55.5	666.00	
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	13.61.1	12.00	SQM	131.45	1577.40	
35	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.	13.41.1	134.465	SQM	162.55	21857.29	
36	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	4.50	SQM	162.35	730.58	
37	Providing & fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .	9.96.2	3.00	NOS	234.90	704.70	
38	Providing and fixing aluminium towerbolts (barrel type) with necessary screws etc. complete.						
	300 x 10mm	9.97.1	3.00	NOS	117.65	352.95	
	200 x 10mm	9.97.3	3.00	NOS	90.80	272.40	
39	Providing and fixing aluminium handles with screws etc. complete (a) 125 mm.	9.100.1	6.00	NOS	60.05	360.30	
40	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper	9.101.2	3.00	NOS	62.25	186.75	
					TOTAL	849160.19	
					SAY IN LACS	8.49	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

ABSTRACT OF COST

[PUMP ROOM]

S.N.	DESCRIPTION OF ITEM	DSR-2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.) ON NON DSR
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. all kinds of soil	2.8.1	6.91	CUM	286.85	1982.13	
2	Supplying and stacking of good earth at site.	16.3.9	0.900	CUM	624.55	562.10	
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	2.25	7.810	CUM	253.95	1983.35	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.27	0.90	CUM	2161.2	1945.08	
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)	4.1.10	1.60	CUM	6050.65	9681.04	
6	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge."(Note :- Cement content considered in this item is @ 330 kg/cum."Excess/ less cement used as per design mix is payable/recoverable separately).						
(I)	Upto plinth level						
	(i) R.C.C. work in Footing	5.33.1	0.800	CUM	7997.3	6397.84	
	(ii) R.C.C. work in Beam	5.33.1	0.510	CUM	7997.3	4078.62	
	(iii) R.C.C. work in Columns	5.33.1	0.320	CUM	7997.3	2559.14	
(II)	Above plinth to floor-V lvl						
	Same as above but R.C.C. work above plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2	0.090	CUM	10080.15	907.21	
	(ii) R.C.C. work in Beam	5.33.2	0.510	CUM	10080.15	5140.88	
	(iii) R.C.C. work in Columns	5.33.2	0.910	CUM	10080.15	9172.94	
	(iv) R.C.C. work in Slab	5.33.2	1.240	CUM	10080.15	12499.39	
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level . Thermo-Mechanically Treated bars of grade Fe-500D or more.	5.22.6	1.280	QTL.	8965	11475.20	
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level . Thermo-Mechanically Treated bars of grade Fe-500 D or more.	5.22.A.6	1.910	QTL.	8965	17123.15	
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	5.9.1	3.200	SQM	307.95	985.44	
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	12.512	SQM	766.55	9590.77	
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	13.800	SQM	608.35	8395.23	
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	19.200	SQM	804.25	15441.60	

10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	6.1.2	0.650	CUM	6658.25	4327.86	
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	6.4 6.4.2	3.030	CUM	8288.35	25113.70	
12	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:	14.85	11.970	SQM	615.00	7361.55	
13	Providing and laying brick tiles over mummy roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat: With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	12.19 12.19.1	11.970	SQM	549.05	6572.13	
14	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	9.20.1	1.890	SQM	3086.1	5832.73	
15	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	9.23	1.89	SQM	401.4	758.65	
16	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	10.13.1	15.600	KG	114.65	1788.54	
17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.	9.48.1	5.400	KG	181	977.40	
18	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	10.11.1	7.920	KG	175.65	1391.15	
19	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	10.15.1	14.61	Kg	146.55	2141.10	
20	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.	10.30.1	0.360	SQM	940.30	940.3	
21	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	12.00	RM	64.7	776.40	

23	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. (1)1 cement : 6 fine sand.	13.4.2	35.29	SQM	294.35	10387.61	
24	6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)	13.16.1	12.38	SQM	253.05	3132.76	
25	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand).	13.5.1	49.936	SQM	354.50	17702.31	
26	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	4.17	8.300	SQM	681.65	5657.70	
27	Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75	16.7.1	13.84	RM	179.5	2484.28	
28	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. (40 mm thick with 20 mm nominal size stone aggregate)	11.3.1	13.000	SQM	545	7085.00	
29	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. (18 mm thick)	11.27	2.985	SQM	2038.55	6085.07	
30	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Ordinary cement without any pigment.	(DSR-11.19.1)	2.280	SQM	1295.20	2953.06	
31	Steel Painting:						
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	1.49	SQM	55.5	82.92	
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	13.61.1	1.49	SQM	131.45	196.39	
32	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.	13.41.1	12.380	SQM	162.55	2012.37	
33	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	1.20	SQM	162.35	194.82	
34	Providing & fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .	9.96.2	1.00	NOS	234.90	234.90	
35	Providing and fixing aluminium towerbolts (barrel type) with necessary screws etc. complete.						
	300 x 10mm	9.97.1	1.00	NOS	117.65	117.65	
	200 x 10mm	9.97.3	1.00	NOS	90.80	90.80	
36	Providing and fixing aluminium handles with screws etc. complete (a) 125 mm.	9.100.1	2.00	NOS	60.05	120.10	
37	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper	9.101.2	1.00	NOS	62.25	62.25	
					TOTAL	236502.60	
					Say Rs. In Lacs	2.37	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHI

SUMMARY OF COST FOR ELECTRICAL WORKS (PUMP ROOM)

S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	17908.00	
II	DISTRIBUTION BOARDS & MCB's	6064.00	
III	INTERNAL LIGHTING FIXTURES & FANS	656.00	8200.00
	Total C/F To Summary	24628.00	8200.00
	SAY IN LACS	0.25	0.08

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

BILL OF QUANTITIES ELECTRICAL WORKS (PUMP ROOM)

S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- INTERNAL WIRING						
(DSR'2018)						
		Point wiring in PVC conduit, with piano type switch :-				
1	1.8	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, with piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.3	Group C	Point	3.00	1445.00	4335.00
		Twin Control Point wiring in PVC conduit, with piano type switch :-				
2	1.9	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, 2 way piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	1.00	1457.00	1457.00
		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class pvc conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	M	10.00	334.00	3340.00
		Circuit / Sub main wiring in PVC conduit :-				
	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	10.00	233.00	2330.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	10.00	275.00	2750.00
4	1.14.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	M	5.00	570.00	2850.00
		S/F light plug point piano type accessories :-				
5	1.29	Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required.	Each	1.00	358.00	358.00
		S/F power plug point piano type accessories :-				
6	1.3	Supplying and fixing metal box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.	Each	1.00	488.00	488.00
		TOTAL SUB HEAD (I) (DSR'2018)				17908.00
II SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's						
(DSR'2018)						
1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.10.1	single pole	Each	3.00	256.00	768.00
2	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	1.00	13.00	13.00
		S/F DP MCB Isolator				
	2.12	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and				
3	2.12.1	40 amps.	Each	1.00	435.00	435.00
	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
4	2.14.2	40 amps.	Each	1.00	2642.00	2642.00
	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
5	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00

		TOTAL SUB HEAD (II) (DSR'2018)					6064.00
III		SUB HEAD(III):-INTERNAL LIGHTING FIXTURES & FANS					
		SUPPLY OF LIGHTING FIXTURES					
		(NON-DSR)					
1		Supply of Mounting rail with Master LED tube with all accessories as per standard item:					
	MR	TMC 501 P 1xT-LED 22W P3241 with Essential LED Tube 18 W, 1600 lumen	Each	1.00	1550.00		1550.00
2	MR	Supply of Green Line Smart of 10 watt and 1000 lumen, luminaire is perfect for secondary roads and pathways. It sports a compact body, which offers a highly efficient lighting solution as compared to fluorescent and CFL street lights. (such as Philips -BRP022 LED 10 CW MR S1 PSU GR or Equivalent).	Each	1.00	3420.00		3420.00
		SUPPLY OF EXHAUST FANS					
		Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete					
3	MR	300 mm sweep 900 rpm	Nos	1.00	3230.00		3230.00
		TOTAL SUB HEAD (III) (NON-DSR)					8200.00
		ERECTION OF LIGHTING FIXTURES AND FANS					
		(DSR'2018)					
1	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tubes etc. directly on ceiling / wall, including connection with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	1.00	206.00		206.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required					
	1.50.1	Upto 450 mm sweep	Each	1.00	450.00		450.00
		TOTAL SUB HEAD (III) (DSR'2018)					656.00

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

ABSTRACT OF COST

[Sentry Booth]

S.N.	DESCRIPTION OF ITEM	DSR-2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.) ON NON DSR
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. all kinds of soil	2.8.1	3.89	CUM	286.85	1115.85	
2	Supplying and stacking of good earth at site.	16.3.9	0.480	CUM	624.55	299.78	
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	2.25	4.370	CUM	253.95	1109.76	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.27	0.48	CUM	2161.2	1037.38	
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)	4.1.10	0.80	CUM	6050.65	4840.52	
6	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge."(Note :- Cement content considered in this item is @ 330 kg/cum."Excess/ less cement used as per design mix is payable/recoverable separately).						
(I)	Upto plinth level						
	(i) R.C.C. work in Footing	5.33.1	0.390	CUM	7997.3	3118.95	
	(ii) R.C.C. work in Beam	5.33.1	0.280	CUM	7997.3	2239.24	
	(iii) R.C.C. work in Columns	5.33.1	0.190	CUM	7997.3	1519.49	
(II)	Above plinth to floor-V lvl						
	Same as above but R.C.C. work above plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2	0.050	CUM	10080.15	504.01	
	(ii) R.C.C. work in Beam	5.33.2	0.280	CUM	10080.15	2822.44	
	(iii) R.C.C. work in Columns	5.33.2	0.420	CUM	10080.15	4233.66	
	(iv) R.C.C. work in Slab	5.33.2	0.500	CUM	10080.15	5040.08	
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level . Thermo-Mechanically Treated bars of grade Fe-500D or more.	5.22.6	0.850	QTL.	8965	7620.25	
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level . Thermo-Mechanically Treated bars of grade Fe-500 D or more.	5.22.A.6	1.000	QTL.	8965	8965.00	
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	5.9.1	1.600	SQM	307.95	492.72	
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	5.380	SQM	766.55	4124.04	
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	7.700	SQM	608.35	4684.30	
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	10.560	SQM	804.25	8492.88	

10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	6.1.2	0.350	CUM	6658.25	2330.39	
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	6.4 6.4.2	1.400	CUM	8288.35	11603.69	
12	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:	14.85	4.840	SQM	615.00	2976.60	
13	Providing and laying brick tiles over mummy roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat: With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	12.19 12.19.1	4.840	SQM	549.05	2657.40	
14	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	9.20.1	1.580	SQM	3086.1	4876.04	
15	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	9.23	1.58	SQM	401.4	634.21	
16	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	10.13.1	9.900	KG	114.65	1135.04	
17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.	9.48.1	2.030	KG	181	367.43	
18	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	10.11.1	2.970	KG	175.65	521.68	
19	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	10.15.1	7.31	Kg	146.55	1071.28	
20	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.	10.30.1	0.135	SQM	940.30	940.3	
21	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	6.00	RM	64.7	388.20	

23	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. (1)1 cement : 6 fine sand.	13.4.2	18.00	SQM	294.35	5298.30	
24	6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)	13.16.1	6.48	SQM	253.05	1639.76	
25	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand).	13.5.1	26.297	SQM	354.50	9322.29	
26	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	4.17	4.320	SQM	681.65	2944.73	
27	Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75	16.7.1	7.20	RM	179.5	1292.40	
28	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. (40 mm thick with 20 mm nominal size stone aggregate)	11.3.1	4.840	SQM	545	2637.80	
29	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. (18 mm thick)	11.27	1.500	SQM	2038.55	3057.83	
30	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Ordinary cement without any pigment.	(DSR-11.19.1)	1.000	SQM	1295.20	1295.20	
31	Steel Painting:						
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	1.49	SQM	55.5	82.92	
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	13.61.1	1.49	SQM	131.45	196.39	
32	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.	13.41.1	6.480	SQM	162.55	1053.32	
33	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	0.48	SQM	162.35	77.93	
34	Providing & fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .	9.96.2	1.00	NOS	234.90	234.90	
35	Providing and fixing aluminium towerbolts (barrel type) with necessary screws etc. complete.						
	300 x 10mm	9.97.1	1.00	NOS	117.65	117.65	
	200 x 10mm	9.97.3	1.00	NOS	90.80	90.80	
36	Providing and fixing aluminium handles with screws etc. complete (a) 125 mm.	9.100.1	2.00	NOS	60.05	120.10	
37	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper	9.101.2	1.00	NOS	62.25	62.25	
					TOTAL	121287.18	
					Say Rs. In Lacs	1.21	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHI

SUMMARY OF COST FOR ELECTRICAL WORKS (SENTRY BOOTH)

S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	10543.00	
II	DISTRIBUTION BOARDS & MCB's	5552.00	
III	INTERNAL LIGHTING FIXTURES & FANS	656.00	8200.00
	Total C/F To Summary	16751.00	8200.00
	SAY IN LACS	0.17	0.08

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

BILL OF QUANTITIES ELECTRICAL WORKS (SENTRY BOOTH)

S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- INTERNAL WIRING						
(DSR'2018)						
		Point wiring in PVC conduit, with piano type switch :-				
1	1.8	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, with piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.3	Group C	Point	2.00	1445.00	2890.00
		Twin Control Point wiring in PVC conduit, with piano type switch :-				
2	1.9	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, 2 way piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	1.00	1457.00	1457.00
		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class pvc conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	M	5.00	334.00	1670.00
		Circuit / Sub main wiring in PVC conduit :-				
	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	5.00	233.00	1165.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	5.00	275.00	1375.00
4	1.14.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	M	2.00	570.00	1140.00
		S/F light plug point piano type accessories :-				
5	1.29	Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required.	Each	1.00	358.00	358.00
		S/F power plug point piano type accessories :-				
6	1.3	Supplying and fixing metal box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.	Each	1.00	488.00	488.00
		TOTAL SUB HEAD (I) (DSR'2018)				10543.00
II SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's						
(DSR'2018)						
1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.10.1	single pole	Each	1.00	256.00	256.00
2	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	1.00	13.00	13.00
		S/F DP MCB Isolator				
	2.12	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and				
3	2.12.1	40 amps.	Each	1.00	435.00	435.00
	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
4	2.14.2	40 amps.	Each	1.00	2642.00	2642.00
	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
5	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00

		TOTAL SUB HEAD (II) (DSR'2018)					5552.00
III		SUB HEAD(III):-INTERNAL LIGHTING FIXTURES & FANS					
		SUPPLY OF LIGHTING FIXTURES					
		(NON-DSR)					
1		Supply of Mounting rail with Master LED tube with all accessories as per standard item:					
	MR	TMC 501 P 1xT-LED 22W P3241 with Essential LED Tube 18 W, 1600 lumen	Each	1.00	1550.00		1550.00
2	MR	Supply of Green Line Smart of 10 watt and 1000 lumen, luminaire is perfect for secondary roads and pathways. It sports a compact body, which offers a highly efficient lighting solution as compared to fluorescent and CFL street lights. (such as Philips -BRP022 LED 10 CW MR S1 PSU GR or Equivalent).	Each	1.00	3420.00		3420.00
		SUPPLY OF EXHAUST FANS					
		Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete					
3	MR	300 mm sweep 900 rpm	Nos	1.00	3230.00		3230.00
		TOTAL SUB HEAD (III) (NON-DSR)					8200.00
		ERECTION OF LIGHTING FIXTURES AND FANS					
		(DSR'2018)					
1	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tubes etc. directly on ceiling / wall, including connection with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	1.00	206.00		206.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required					
	1.50.1	Upto 450 mm sweep	Each	1.00	450.00		450.00
		TOTAL SUB HEAD (III) (DSR'2018)					656.00

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS			
SUMMARY OF DEVELOPMENT WORKS			
S.N.	PARTICULARS OF ITEMS	DSR-2021	Non-DSR
1	DEVELOPMENT OF CAMPUS		
1.1	EARTH CUTTING/ FILLING, DEVELOPMENT OF LAND	188337.9522	
2	APPROACH PROVISION WITHIN CAMPUS		
2.1	CC ROAD	860111.7325	
2.2	PATHWAYS		
2.2	RCC CULVERT (2 NO)	346647.526	
3	EXTERNAL WATER SUPPLY		
3.1	WATER SUPPLY DISTRIBUTION LINE	297002.1584	
3.2	TUBE/ OPEN WELL I/ C , SUBMERSIBLE PUMP 7.5 HP. AND CABLING ETC COMPLETE.	521346.1	241360.4
3.3	UNDER GROUND SUMP (100 KL)	1997796.71	
3.4	PROVIDING & FIXING MONO BLOCK PUMPS WITH (7.5 HP) OF APPROVED BRAND I.E. KIRLOSKAR CROMTON, JYOTI, MATHER & PLATE OF SLIDING PLATE, STARTER. PUMPS 2NOS OF 7.5 HP (2x95000=1,90,000)		190000
4	EXTERNAL SEWERAGE		
4.1	EXT. SEWERAGE LINE	629544.659	
4.2	APRON DRAIN	382773.4972	
4.3	STROM WATER DRAIN	582064.0966	
4.4	5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROLLY WITH 10 M.SUCTION & 10 M. DEL FLEXIBLE PIPE (2x75000=1,50,000)		150000
5	EXTERNAL ELECTRIFICATION		
5.1	HT/ LT PANEL		245000
5.2	STREET LIGHTING USING UNDER GROUND CABLES		883082.49
5.3	EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDING AND PUMP HOUSE AND EARTHING	771005.15	
5.4	11kv Electric connection from DISCOM with 100kv sanction load		1000000
5.5	200KV Transformer		800000
5.6	100KV D.G Set		800000
6	RMM RETAINING WALL		
6.1	1.00 METER HEIGHT WALL	591861.3722	
6.2	2.00 METER HEIGHT WALL	2186872.991	
7	RCC RETAINING WALL		
7.1	3.00 METER HEIGHT WALL	2412989.072	
7.2	4.00 METER HEIGHT WALL	2733937.994	
7.3	5.00 METER HEIGHT WALL	2332401.773	
7.3	6.00 METER HEIGHT WALL	2375902.862	

8	1 NO. SEPTIC TANK (150 USERS)	644728.44	
	Rain water harvesting (2 nos		
9	Recharge well)	838263.95	
9	LANDSCAPING	336596.6365	
		21030184.67	4309442.89
	TOTAL (A)	210.3	43.09

Construction of Regional Office Building NVS Meghalaya					
8 Passengers Lift (2 Nos)					
Description	Unit	Quantity	Rate	Amount(Rs)	
Supplying installation,testingcommissioning of 8 Passenger (544 Kg), Gearless type,Machne room-less passenger lift of equivalent make as per tender make list , Lifts make having contract speed 1.5 MPS	Each	2	1600000	3200000	
				32,00,000	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.						
ABSTRACT OF COST (CIVIL WORKS)						
S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
1.0	2	EARTH WORK				
1.01	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a)	2.8.1	All kinds of soil	Cum	1355.84	286.85	388923.60
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1193.51	253.95	3,03,090.82
1.03	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
	2.26.1	All kinds of soil	Cum	463.74	104.50	48,460.54
1.04	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	57.00	2161.20	123188.40
1.05	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.				
			Cum	380.00	368.65	140087.00
		Total of sub-head				1003750.36
2.0	4	CONCRETE WORK				
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a)	4.1.10	1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)	Cum	59.90	6050.65	362444.50
2.02	4.2	Providing and laying 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, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				
a)	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	0.52	9375.20	4867.84
2.03	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	90.00	681.65	61348.50
		Total of sub-head				428660.84
3.0	5	REINFORCED CEMENT CONCRETE				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights:				
a)	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	202.67	307.95	62413.23
b)	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc	Sqm	59.16	669.55	39610.58
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	902.88	804.25	726141.24

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
d)	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	4.52	307.95	1390.39
e)	5.9.16	Edges of slabs and breaks in floors and walls				
f)	5.9.16.1	Under 20 cms wide	metre	350.40	181.90	63737.76
g)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	1246.61	766.55	955591.96
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	914.73	608.35	556477.09
3.02	5.18	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing with cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.				
a)	5.18.1	50 mm thick	Sqm	14.85	1580.90	23476.37
3.03	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a)	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kilogram	95324.00	89.65	8545796.60
3.04	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	19.80	64.70	1281.06
3.05	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately).				
(i)	5.33.1	All works upto plinth level	Cum	253.46	7997.30	2027008.01
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	382.02	10080.15	3850841.21
3.06	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	762.58	688.45	524998.20
		Total of sub-head				17378763.70
4.0	6	BRICK WORK				
4.01	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
a)	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	70.17	6658.25	467187.26
4.02	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).				
			Cum	354.15	6994.15	24,76,969.47
4.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
a)	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	330.84	1018.05	336816.24
4.04	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	330.84	86.45	28601.51

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
4.05	6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Metre	120.00	55.80	6696.00
		Total of sub-head				3316270.49
5.0	8	MARBLE WORK				
5.01	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
a)	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
(i)	8.2.1.2	Area of slab over 0.50 sqm	Sqm	2.16	2639.45	5701.21
b)	8.2.2	Granite of any colour and shade				
i)	8.2.2.2	Area of slab over 0.50 sqm	sqm	8.60	4425.35	38035.88
5.02	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
a)	8.3.1	Marble work	Metre	7.20	244.90	1763.28
b)	8.3.2	Granite work	Metre	16.80	418.85	7036.68
5.03	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	3.00	808.15	2424.45
		Total of sub-head				54961.51
6.0	9	WOOD WORK & PVC WORK				
6.01	9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	73.13	148.50	10859.06
6.02	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
a)	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	88.83	2015.75	179059.07
6.03	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	88.83	401.40	35656.36
6.04	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	88.83	93.65	8318.93
6.05	9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
i)	9.27.1	35 mm thick shutters				
a)	9.27.1.1.2	Kiln seasoned and chemically treated hollock wood	Sqm	76.23	3140.15	239373.63
6.06	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
a)	9.48.1	Fixed to steel windows by welding	Kg	1026.68	181.00	185828.18
6.07	9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.				
a)	9.51.2	With 12 mm mild steel U beading	Sqm	51.98	812.40	42224.49
6.08	9.59	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :				
a)	9.59.1	150 mm	Each	80.00	224.95	17996.00
6.09	9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.				
a)	9.68.2	250 mm weighing not less than 150 gms	Each	102.00	51.90	5293.80
6.10	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
a)	9.96.2	250x16 mm	Each	96.00	234.90	22550.40
6.11	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
a)	9.97.3	200x10 mm	Each	96.00	90.80	8716.80
6.12	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
a)	9.101.2	Twin rubber stopper	Each	96.00	62.25	5976.00
6.13	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	51.98	9642.60	501174.14
		Total of sub-head				1263026.86
7.00	10	STEEL WORK				

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
7.01	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).				
a)	10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	2509.65	175.65	440820.02
7.02	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
a)	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	1132.66	114.65	129859.56
7.03	10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	Each	56.00	185.20	10371.20
7.04	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
a)	10.26.1	M.S. tube	Kg	1198.64	157.15	188366.90
7.05	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless 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 Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	300.00	612.25	183675.00
7.06	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
a)	10.30.1	4.0 mm thick glass panes	Sqm	73.13	940.30	68759.44
		Total of sub-head				1021852.13
8.00	11	FLOORING				
8.01	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	290.24	1063.45	308656.79

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
8.02	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.				
a)	11.41.2	Size of Tile 600x600 mm	Sqm	1004.00	1416.65	1422316.60
8.03	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with				
a)	11.46.2	Size of Tile 600x600 mm	Sqm	101.00	1466.50	148116.50
		Total of sub-head				1879089.89
10.00	13	FINISHING				
10.01	13.4	12 mm cement plaster of mix				
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	1268.45	294.35	373367.39
10.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	2156.59	339.10	731300.98
10.03	13.16	6mm cement plaster of mix				
a)	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	1238.02	253.05	313280.71
10.04	13.37	White washing with lime to give an even shade :				
a)	13.37.1	New work (three or more coats)	Sqm	1238.02	32.45	40173.72
10.05	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
a)	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	2114.08	162.55	343643.44
10.06	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
a)	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	2156.59	162.35	350123.01
10.07	13.50	Applying priming coat:				
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	429.41	61.45	26387.12
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	169.42	55.50	9402.94
10.08	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a)	13.61.1	Two or more coats on new work	Sqm	604.99	131.45	79525.46
10.09	13.65	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :				
a)	13.65.1	Two or more coats on new work	Sqm	36.00	115.10	4143.60
10.10	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
		Total of sub-head				2800271.13
11.00	22	WATER PROOFING				
11.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
	(a)	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
	(b)	IIInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
	(c)	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				
	(d)	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	45.75	774.25	35423.91
11.02	14.85	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	432.84	615.00	266196.88
11.03	12.19	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:				
	12.19.1	With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	Sqm	432.84	549.05	237651.05
		Total of sub-head				539271.84
12.00		NON SHEDULE ITEMS				
12.01	MR	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
		150 mm	Each	168.00	75.00	12600.00
12.02	MR	Providing and fixing aluminium door buffer of approved make, design and colour with necessary screws etc all complete as directed and specified by the Engineer-in-Charge :	Each	48.00	45.00	2160.00
12.03	MR	Providing and laying 1st quality ceramic glazed Anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) conforming to IS:15622 in all colours, shades, sizes as approved over 20 mm thick bed of Cement Mortar 1: 4 (1 cement : 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc complete in all respects as per specifications/drawings and to the entire satisfaction to the Architect.	Sqm	75.00	1100.00	82500.00

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
12.04	MR	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary				
		For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.				
		Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	Sqm	51.98	3250.95	168968.13
		Total of sub-head				266228.13

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

ABSTRACT OF COST (SANITARY WORKS)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
1.00	2.00	EARTH WORK				
1.01	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a)	2.8.1	All kinds of soil.	Cum	25.00	286.85	7171.25
1.02	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
a)	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	28.00	417.35	11685.8
1.03	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	10.00	253.95	2539.5
		Total of sub-head				27785.30
2.00	12.00	ROOFING				
2.01	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
A)	12.41.2	110 mm diameter	Metre	125.00	319.75	39968.75
2.02	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
i)	12.42.1	Coupler				
a)	12.42.1.2	110 mm	Each	3.00	119.95	359.85
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	3.00	132.00	396
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	3.00	115.95	347.85
2.03	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
a)	12.43.2	110 mm	Each	6.00	309.50	1857
2.04	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	16.00	47.90	766.4
		Total of sub-head				43695.85
3.00	17.00	SANITARY INSTALLATIONS				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
3.01	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	15.00	5781.35	86720.250
3.02	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
a)	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	9.00	6827.55	61447.950
3.03	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively.	Each	6.00	1382.30	8293.80
3.04	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
a)	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	9.00	2731.45	24583.050
3.05	17.10	Providing and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	1.00	6008.45	6008.450
3.06	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	9.00	167.25	1505.250
3.07	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	9.00	1411.15	12700.350
3.08	17.34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	9.00	463.00	4167.000
3.09	17.35	Providing and fixing soil, waste and vent pipes :				
a)	17.35.1	100 mm dia.				
i)	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	85.00	1077.40	91579.000
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	65.00	1042.10	67736.500
3.10	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
a)	17.37.1	For 100 mm dia. pipe	Each	35.00	308.45	10795.750
b)	17.37.2	For 75 mm dia. pipe	Each	2.00	304.45	608.900
3.11	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
a)	17.38.1	100 mm				
i)	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	2.00	453.40	906.800
3.12	17.39	Providing and fixing plain bend of required degree.				
a)	17.39.1	100 mm				
i)	17.39.1.2	Sand cast iron S&S as per IS : 3989	Each	33.00	439.75	14511.750
b)	17.39.2	75 mm				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	298.20	596.40
3.13	17.40	Providing and fixing heel rest sanitary bend				
a)	17.40.1	100 mm dia				
i)	17.40.1.2	Sand cast iron S&S as per IS - 3989	Each	4.00	439.75	1759.000
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.250
3.14	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.				
a)	17.43.1	100x100x100mm				
i)	17.43.1.2	Sand cast iron S&S as per IS - 3989	Each	9.00	731.40	6582.600
b)	17.43.1	75x75x75mm				
i)	17.43.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.800
3.15	17.44	Providing and fixing single equal plain junction of required degree				
a)	17.44.1	100x100x100mm				
i)	17.44.1.2	Sand cast iron S&S as per IS - 3989	Each	15.00	707.30	10609.500
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.900
3.16	17.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	10.00	611.00	6110.000
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.800
3.17	17.56	Providing and fixing terminal guard :				
a)	17.56.1	100 mm				
i)	17.56.1.2	Sand cast iron S&S as per IS - 3989	Each	9.00	439.75	3957.750
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
3.18	17.57	Providing and fixing collar :				
a)	17.57.1	100 mm				
i)	17.57.1.2	Sand cast iron S&S as per IS - 3989	Each	20.00	439.75	8795.000
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.450
3.19	17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :				
a)	17.58.1	100 mm	Each	25.00	549.65	13741.250
b)	17.58.2	75 mm	Each	20.00	466.40	9328.000
3.20	17.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :				
a)	17.59.1	100 mm	Each	9.00	128.65	1157.850
b)	17.59.2	75 mm	Each	1.00	80.10	80.100
3.21	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	15.00	1403.45	21051.750
3.22	17.61	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	30.00	615.70	18471.000
3.23	17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
a)	17.65.1	100 mm diameter pipe	Metre		40.65	
b)	17.65.2	75 mm diameter pipe	Metre	10.00	52.90	529.000
3.24	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
a)	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	13.00	109.70	1426.100
3.25	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
a)	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Each	9.00	325.10	2925.900
3.26	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	9.00	146.30	1316.700
3.27	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
a)	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	9.00	600.35	5403.150
3.28	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	1.00	6008.45	6008.450
3.29	17.16A	Providing and fixing 8mm dia C.P / S.S Jet with flexible tube upto 1 metre long with S.S triangular plate to European type W.C of quality and make as approved by engineer-in-charge.	Each	2.00	299.35	598.70
3.30	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	30.00	457.70	13731.00
	18.12.5	40mm dia nominal bore	Metre	30.00	558.35	16750.50
	18.12.6	50mm dia nominal bore	Metre		342.70	
		Total of sub-head				556219.05
4.00	18.00	WATER SUPPLY				
4.01	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
		Internal work - Exposed on wall				
a)	18.7.2	20 mm nominal outer dia Pipes	Metre	20.00	325.10	6502.00
b)	18.7.3	25 mm nominal outer dia Pipes	Metre	25.00	408.55	10213.75
c)	18.7.4	32 mm nominal outer dia Pipes	Metre	15.00	500.95	7514.25
d)	18.7.5	40 mm nominal outer dia Pipes	Metre	30.00	674.35	20230.50
e)	18.7.6	50 mm nominal outer dia Pipes	Metre	20.00	548.55	
4.02	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
a)	18.8.1	15 mm nominal outer dia Pipes	Metre	20.00	441.15	8823.00
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	50.00	513.75	25687.50
c)	18.8.3	25 mm nominal outer dia Pipes	Metre	25.00	626.05	15651.25
d)	18.8.4	32 mm nominal outer dia Pipes	Metre	20.00	712.75	14255.00
4.03	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
a)	18.13.1	25 to 40 mm nominal bore	Each	2.00	757.10	1514.20

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	16.00	327.95	5247.20
4.05	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a)	18.17.1	25mm nominal bore	Each	4.00	532.35	2129.40
b)	18.17.2	32mm nominal bore	Each	4.00	589.90	2359.60
c)	18.17.3	40mm nominal bore	Each	10.00	707.30	7073.00
4.06	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a)	18.18.3	25 mm nominal bore	Each	2.00	399.15	798.30
4.07	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
a)	18.20.3	25 mm nominal bore	Each	2.00	447.00	894.00
4.08	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
a)	18.21.2	45 cm length				
i)	18.21.2.1	15 mm nominal bore	Each	8.00	85.20	681.60
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	5.00	166.35	831.75
4.10	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
a)	18.48B	Rectangular tank	Per litre	8000.00	9.70	77600.00
4.11	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
a)	18.49.1	15 mm nominal bore	Each	15.00	434.20	6513.00
4.12	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
a)	18.51.1	15 mm nominal bore	Each	15.00	708.40	10626.00
4.13	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
a)	18.52.1	15 mm nominal bore.	Each	4.00	594.75	2379.00
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	18.00	500.35	9006.30
4.15	18.58	Providing and fixing PTMT grating of approved quality and colour.				
a)	18.58.1	Circular type.				
i)	18.58.1.1	100 mm nominal dia.	Each	25.00	33.20	830.00
4.16	18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	Each	15.00	377.10	5656.50
		Total of sub-head				243624.800
5.00	19	SEWARAGE & DRAINAGE				
5.01	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
a)	19.1.1	100 mm diameter	Metre	8.00	375.75	3006.00
b)	19.1.2	150 mm diameter	Metre	20.00	591.40	11828.00
5.02	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
a)	19.2.1	100 mm diameter S.W. pipe	Metre	8.00	895.50	7164.00
b)	19.2.2	150 mm diameter S.W. pipe	Metre	20.00	1095.15	21903.00
c)	19.2.4	250 mm diameter S.W. pipe	Metre	20.00	1027.00	
5.03	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
a)	19.4.3	180 x 150 mm size P type				
i)	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	13.00	2534.00	32942.00
5.04	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
a)	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
i)	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00	11687.10	46748.40
5.05	19.8	Extra for depth for manholes :				
a)	19.8.1	Size 90x80 cm				
i)	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	2.00	8127.45	16254.90
5.06	19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	Each	10.00	487.10	4871.00
5.07	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
a)	19.21.1	For pipes 100 to 250 mm diameter	Each	2.00	683.70	1367.40
5.08	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
a)	19.6.2	150 mm dia RCC pipe	Metre	10.00	493.10	4931.00
b)	19.6.3	250 mm dia RCC pipe	Metre	80.00	811.15	64892.00
		Total of sub-head				215907.70
6.00		NON SCHEDULE ITEMS				
6.01	NS	Providing and fixing C.P. brass floor clean out plug of approved make complete in all respect. 100 mm dia.	Each	11.000	1200.00	

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
6.02	NS	Providing and fixing floor drain points of 75 x 50mm reducer bend with 100 mm dia CP grating with frame, embedded in floor including making joints with waste pipe etc. complete in all respects as per drawing and as directed by the Engineer in Charge.	Each	30.000	1200.00	
6.01	NS	Providing and fixing concealed single lever bath & overhead shower mixer of hindware make and model No. (F360019CP) respectively or equivalent approved make as approved by Engineer in charge.	Each	2.000	5000.00	10000.00
6.02	NS	Supplying, fixing, testing and commissioning of storage type water heater (Geyser) etc. with Stainless steel body , copper container , automatic thermostatic control electric element, pressure release valve, M.S. nuts and bolts etc. conforming to IS: 2082				
a)		25 Litre Capacity	Each	2.000	13188.00	26376.00
6.03	NS	Providing & fixing Sink Mixer with Swinging Casted Spout (Wall Mounted Jaquar model CON-309 KN)/approved equal with 450mm long copper pipes & brass nuts.	Each	1.00	3522.00	3522.00
6.04	NS	Providing and fixing C.P. brass grab bar(600mm long) fixed with C.P. brass screws including all fittings complete.Jaquar model no. AHS-1507/approve equal.	Each	4.00	1783.00	7132.00
6.05	NS	Providing and fixing C.P. brass push type pillar cock for wash basin of approved quality.Jaquar model no. PRS-031/approved equal make.	Each	9.00	2549.00	
6.06	NS	Providing and fixing C.P. brass push type auto closing urinal valve with built in control cock & wall flange of approved quality.Jaquar model no. PRS-031/approved equal make.	Each	22.00	2682.00	
6.07	NS	Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for rain water Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, cowls, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & clamps on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
a)		160 mm outer dia	Metre	110.00	1012.00	
		Total of sub-head				47030.00

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

GUEST HOUSE

ABSTRACT OF COST (CIVIL WORKS)

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
1.0	2	EARTH WORK				
1.01	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				-
a)	2.8.1	All kinds of soil	Cum	174.51	286.85	50,057.02
						-
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	145.24	253.95	36,884.81
						-
1.03	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	5.43	2,161.20	11,741.80
1.04	16.3	Supplying and stacking at site.				
	16.3.9	Good earth	Cum	23.09	624.55	14,421.02
		Total of sub-head				1,13,104.64
2.0	4	CONCRETE WORK				
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				-
a)	4.1.10	1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)	Cum	12.83	6,050.65	77,655.18
						-
2.02	4.2	Providing and laying 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, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				
a)	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	0.06	9565.10	578.37
2.03	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 12.5mm nominal size)	Sqm	15.89	370.85	5893.92
2.04	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	15.89	113.85	1809.42
2.05	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	24.66	681.65	16,809.49
		Total of sub-head				1,02,746.38
3.0	5	REINFORCED CEMENT CONCRETE				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights:				-
a)	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	30.89	307.95	9,512.19
b)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	93.73	804.25	75,382.35
c)	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	0.53	307.95	161.92

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
d)	5.9.16	Edges of slabs and breaks in floors and walls				
e)	5.9.16.1	Under 20 cms wide	Metre	32.00	181.90	5,820.80
f)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	62.54	766.55	47,938.50
g)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	68.00	608.35	41,367.80
						-
3.02	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				-
a)	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kilogram	4,351.00	89.65	3,90,067.15
						-
3.03	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	7.45	64.70	482.02
3.04	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge."(Note :- Cement content considered in this item is @ 330 kg/cum."Excess/ less cement used as per design mix is payable/recoverable separately).				
(i)	5.33.1	All works upto plinth level	Cum	20.25	7,997.30	1,61,968.28
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	16.47	10,080.15	1,65,989.88
		Total of sub-head				8,98,690.89
4.0	6	BRICK WORK				
4.01	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
a)	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	15.11	6,658.25	1,00,624.33
4.02	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				-
a)	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	16.82	6,994.15	1,17,651.92
						-
4.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
a)	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	72.88	1,018.05	74,197.52
4.04	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	72.88	86.45	6,300.65
4.05	6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Metre	33.00	55.80	1,841.40
		Total of sub-head				3,00,615.83
5.0	8	MARBLE WORK				
5.01	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
a)	8.2.2	Granite of any colour and shade				
(i)	8.2.2.2	Area of slab over 0.50 sqm	Sqm	1.65	4,425.35	7,301.83
						-
5.02	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				-
a)	8.3.2	Granite work	Metre	2.75	418.85	1,151.84
						-

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
5.03	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	Metre	2.75	475.55	1,307.76
5.04	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	1.00	808.15	808.15
		Total of sub-head				10,569.58
6.0	9	WOOD WORK & PVC WORK				
6.01	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
a)	9.1.1	Second class teak wood	Cum	0.10	1,31,576.95	13,026.12
6.02	9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	3.00	148.50	445.50
6.03	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				-
a)	9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	Sqm	5.04	2,512.35	12,662.24
6.04	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
a)	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	13.26	2,015.75	26,728.85
6.05	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	18.30	401.40	7,345.62
6.06	9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
i)	9.27.1	35 mm thick shutters				
a)	9.27.1.1.2	Kiln seasoned and chemically treated hollock wood	Sqm	5.88	3,140.15	18,464.08
6.07	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				-
a)	9.48.1	Fixed to steel windows by welding	Kg	64.13	181.00	11,606.63
6.10	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
a)	9.96.2	250x16 mm	Each	7.00	234.90	1,644.30
6.11	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
a)	9.97.4	200x10 mm	Each	7.00	75.55	528.85
6.12	9.1	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				-
a)	9.100.1	125 mm	Each	7.00	60.05	420.35
6.13	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				-
a)	9.101.2	Twin rubber stopper	Each	7.00	62.25	435.75

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
6.14	9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
	9.127.1	1.5 mm thick	sqm	3.15	890.55	2,805.23
6.15	9.130	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.				
a)	9.130.1	With decorative veneering on one side and commercial veneering on other side	Sqm	5.04	1,668.30	8,408.23
6.16	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners,				
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	8.13	9,642.60	78,358.18
6.17	9.59	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :				
a)	9.59.1	150 mm	each	10.00	251.70	2,517.00
6.18	9.67	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :				
a)	9.67.3	90 mm	each	10.00	22.10	221.00
6.19	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.				
a)	9.79.4	75 mm	each	8.00	333.15	2,665.20
6.20	9.111	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.				
a)	9.111.1	50x50 mm (base and height)	meter	20.80	310.40	6,456.32
6.21	9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	8.13	2231.20	18131.29
6.22	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved				
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	1.13	7,249.90	8,156.14
		Total of sub-head				2,21,026.87
7.00	10	STEEL WORK				
7.01	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
a)	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	137.23	114.65	15,733.19

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
7.02	10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	Each	4.00	185.20	740.80
7.03	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
a)	10.30.1	4.0 mm thick glass panes	Sqm	2.27	940.30	2,136.83
		Total of sub-head				2,47,793.83
8.00	11	FLOORING				
						-
8.01	11.13	Providing and fixing glass strips in joints of terrazzo/ cement concrete floors.				
a)	11.13.1	40 mm wide and 4 mm thick	meter	20.00	79.50	1,590.00
8.02	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	2.33	2,038.55	4,754.92
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	1.87	157.35	294.56
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	1.87	36.35	68.05
8.05	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	27.83	1,063.45	29,590.50
8.06	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	6.60	935.60	6,174.96
8.07	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.				-
a)	11.41.2	Size of Tile 600x600 mm	Sqm	43.91	1,416.65	62,198.02
						-
8.08	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.				-
a)	11.46.2	Size of Tile 600x600 mm	Sqm	4.39	1,466.50	6,438.67
		Total of sub-head				1,16,900.17
9.00	12	ROOFING				
						-
9.01	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	4.00	266.60	1,066.40
		Total of sub-head				1,066.40
10.00	13	FINISHING				
						-
10.01	13.4	12 mm cement plaster of mix				-

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	112.22	294.35	33,031.66
						-
10.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	163.56	339.10	55,461.98
10.03	13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
a)	13.9.2	20 mm cement plaster	Sqm	6.00	507.85	3,047.10
10.04	13.16	6mm cement plaster of mix				-
a)	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	58.42	253.05	14,783.88
						-
10.05	13.37	White washing with lime to give an even shade :				-
a)	13.37.1	New work (three or more coats)	Sqm	58.42	32.45	1,895.82
10.06	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				-
a)	13.41.1	New work (two or more coats) over and including water thinnable priming coat	Sqm	187.03	162.55	30,401.99
						-
10.07	13.47	Finishing walls with Premium Acrylic Smooth exterior paint withSilicone additives of required shade:				-
a)	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	89.00	162.35	14,449.15
10.08	13.50	Applying priming coat:				-
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	66.00	61.45	4,055.70
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	12.00	55.50	666.00
						-
10.09	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				-
a)	13.61.1	Two or more coats on new work	Sqm	76.40	131.45	10,042.12
10.10	13.65	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :				
a)	13.65.1	Two or more coats on new work	Sqm	6.00	115.10	690.60
10.11	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	334.20	123.85	41,390.44
		Total of sub-head				2,09,916.43
11.00	22	WATER PROOFING				
11.01	14.85	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	60.00	615.00	36,900.00
11.02	12.19	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:				
	12.19.1	With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	Sqm	60.00	549.05	32,943.00
		Total of sub-head				69,843.00

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

GUEST HOUSE

ABSTRACT OF COST (SANITARY WORKS)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
1.00	2.00	EARTH WORK				
1.01	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a)	2.8.1	All kinds of soil.	Cum	1.17	286.85	334.27
1.02	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	1.00	417.35	417.35
1.03	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1.00	253.95	253.95
		Total of sub-head				1005.57
2.00	12.00	ROOFING				
2.01	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
A)	12.41.2	110 mm diameter	Metre	8.00	319.75	2558.00
2.02	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring				
i)	12.42.1	Coupler				
a)	12.42.1.2	110 mm	Each	1.00	119.95	119.95
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	1.00	132.00	132.00
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	1.00	115.95	115.95
2.03	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
a)	12.43.2	110 mm	Each	1.00	309.50	309.50
2.04	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	1.00	47.90	47.90
		Total of sub-head				3283.30
3.00	17.00	SANITARY INSTALLATIONS				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
3.01	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	2.00	5781.35	11562.70
3.02	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
a)	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	2.00	2731.45	5462.90
3.03	17.10	Providing and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	1.00	6008.45	6008.45
3.04	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	1.00	167.25	167.25
3.05	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	2.00	1411.15	2822.30
3.06	17.34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	4.00	463.00	1852.00
3.07	17.35	Providing and fixing soil, waste and vent pipes :				
a)	17.35.1	100 mm dia.				
i)	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	18.00	1077.40	19393.20
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	7.00	1042.10	7294.70
3.08	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
a)	17.37.1	For 100 mm dia. pipe	Each	2.00	308.45	616.90
b)	17.37.2	For 75 mm dia. pipe	Each	2.00	304.45	608.90
3.09	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
a)	17.38.1	100 mm				
i)	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	4.00	597.60	2390.40
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	4.00	453.40	1813.60
3.10	17.39	Providing and fixing plain bend of required degree.				
a)	17.39.1	100 mm				
i)	17.39.1.2	Sand cast iron S&S as per IS : 3989	Each	4.00	439.75	1759.00
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	4.00	298.20	1192.80
3.11	17.40	Providing and fixing heel rest sanitary bend				
a)	17.40.1	100 mm dia				
i)	17.40.1.2	Sand cast iron S&S as per IS - 3989	Each	1.00	439.75	439.75

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.25
3.12	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.				
a)	17.43.1	100x100x100mm				
i)	17.43.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	731.40	1462.80
b)	17.43.1	75x75x75mm				
i)	17.43.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	573.80	1147.60
3.13	17.44	Providing and fixing single equal plain junction of required degree				
a)	17.44.1	100x100x100mm				
i)	17.44.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	707.30	1414.60
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.90
3.14	17.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	611.00	1222.00
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.80
3.15	17.56	Providing and fixing terminal guard :				
a)	17.56.1	100 mm				
i)	17.56.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	439.75	879.50
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	311.55	623.10
3.16	17.57	Providing and fixing collar :				
a)	17.57.1	100 mm				
i)	17.57.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	439.75	879.50
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	271.45	542.90
3.17	17.58	Providing lead caulked joints to sand cast iron/centrifugally cast				
a)	17.58.1	100 mm	Each	10.00	549.65	5496.50
b)	17.58.2	75 mm	Each	10.00	466.40	4664.00
3.18	17.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :				
a)	17.59.1	100 mm	Each	4.00	128.65	514.60
b)	17.59.2	75 mm	Each	4.00	80.10	320.40
3.19	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	16.00	1403.45	22455.20
3.20	17.61	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	5.00	615.70	3078.50
3.21	17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
a)	17.65.1	100 mm diameter pipe	Metre	18.00	69.55	1251.90
b)	17.65.2	75 mm diameter pipe	Metre	7.00	52.90	370.30

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
3.22	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
a)	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	3.00	109.70	329.10
3.23	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
a)	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Each	2.00	325.10	650.20
3.24	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	2.00	146.30	292.60
3.25	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
a)	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	2.00	600.35	1200.70
3.26	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	25.00	457.70	11442.50
		Total of sub-head				125434.30
4.00	18.00	WATER SUPPLY				
4.01	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
		Internal work - Exposed on wall				
a)	18.7.3	25 mm nominal outer dia Pipes metre	Metre	10.00	408.55	4085.50
b)	18.7.4	32 mm nominal outer dia Pipes metre	Metre	5.00	500.95	2504.75
4.02	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work , including cutting chases and making good the walls etc.				
a)	18.8.1	15 mm nominal outer dia Pipes	Metre	10.00	441.15	4411.50
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	20.00	513.75	10275.00
4.03	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
a)	18.13.1	25 to 40 mm nominal bore	Each	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	2.00	327.95	655.90

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
4.05	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a)	18.17.1	25mm nominal bore	Each	2.00	532.35	1064.70
b)	18.17.2	32mm nominal bore	Each	1.00	589.9	589.90
c)	18.17.3	40mm nominal bore	Each	1.00	707.30	707.30
4.06	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a)	18.18.3	25 mm nominal bore	Each	1.00	399.15	399.15
4.07	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
a)	18.20.3	25 mm nominal bore	Each	2.00	447.00	894.00
4.08	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
a)	18.21.2	45 cm length				
i)	18.21.2.1	15 mm nominal bore	Each	4.00	85.20	340.80
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	2.00	166.35	332.70
4.10	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
a)	18.48B	Rectangular tank	per Lite	750.00	9.70	7275.00
4.11	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
a)	18.49.1	15 mm nominal bore	Each	4.00	434.20	1736.80
4.12	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
a)	18.51.1	15 mm nominal bore	Each	4.00	708.40	2833.60
4.13	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
a)	18.52.1	15 mm nominal bore.	Each	2.00	594.75	1189.50
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	2.00	500.35	1000.70
4.15	18.58	Providing and fixing PTMT grating of approved quality and colour.				
a)	18.58.1	Circular type.				
i)	18.58.1.1	100 mm nominal dia.	Each	2.00	33.20	66.40
4.16	18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	Each	2.00	377.10	754.20
		Total of sub-head				43239.30
5.00	19	SEWARAGE & DRAINAGE				
5.01	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70				
a)	19.4.2	150 x 100 mm size P type				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
i)	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	2474.40	4948.80
5.02	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
a)	19.21.1	For pipes 100 to 250 mm diameter	Each	2.00	683.70	1367.40
5.03	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
a)	19.6.2	150 mm dia RCC pipe	Metre	10.00	493.10	4931.00
		Total of sub-head				11247.20

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

ABSTRACT FOR EARTH CUTTING AND FILLING

S.No.	DSR-21	Description	No.	Qty	Unit	Rate	Amount
		Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.					
1	2.25a						
		Office Building	1	366.310158	Cum	368.65	135040.2397
		Office Building porch	1	14.528896	Cum	368.65	5356.07751
		Guest House	1	130.0464802	Cum	368.65	47941.63493
		TOTAL					188337.9522

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

COST OF DEVELOPEMNT WORK

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount on DSR-2021 (In RS.)	Amount on Non-DSR (In RS.)
1		Cost of CC Road					
1.1	AOR	Cost of CC Road	508.004	Sqm	1693.12	860111.7325	
						860111.7325	
2	AOR	Cost RCC Culvert		2 Nos	173323.763		346647.526

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

Analysis of Rate for Culvert

Sl. No.	DESCRIPTION OF ITEM	DSR-2021	NO	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
1	excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10sqm on plan) including dressing of						
	All kind of soil	2.8.1	1	17.1	cum		
	Total			17.1	cum	286.85	4905.135
2	plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and						
	Qty. = 25% of them no 1	2.25	1	4.28	cum	253.65	1085.622
3	grade excluding the cost of centering and shattering - All work up to plinth level						
	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	4.1.10	1	2	cum		
				2	cum	6050.65	12101.3
4	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :						
	Cement mortar 1:6 (1 cement : 6 coarse sand)	6.1.2	2	1.2	Cum		
			2	0.97	Cum		
			2	1.47	Cum		
	side wall		2	0.39	Cum		
				4.03	Cum	6658.25	26832.7475
5	Providing and laying in position cement concrete of specified grade excluding						
	the cost of centering and shuttering - All work up to plinth level :						
	1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size	4.1.2	2	0.49	Cum		
				0.49	Cum	7783.65	3813.9885
6	Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement						
	20 mm cement plaster	13.9.2	2	9.8	Sqm		
			4	4.61	Sqm		
			2	1.01	Sqm		
			4	1.12	Sqm		

Culvert

Sl. No.	DESCRIPTION OF ITEM	DSR-2021	NO	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
				16.54	Sqm	507.85	8399.839
7	Centring and shuttering including strutting, propping etc. and removal of form for :						
	Suspended floor, roofs, landings, balconies and access platform	5.9.3	1	5.25	Sqm	766.55	4024.3875
8	Centering and shuttering including strutting, propping etc. and removal of form for :						
	Edges of slabs and breaks in floors and walls.						
	Under 25 cms. wide						
	Slab Edges	5.9.16.2	2	14	mts		
			2	2.88	mts		
	CC Edges below slab		4	28	mts		
				44.88	mts	772.1	34651.848
8	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level.						
	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	5.1.2	1	2.52	cum	8364.2	21077.784
9	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.						
	25 mm thick with 12.5 mm nominal size stone aggregate	4.1.3	1	0.39	Sqm	7365.15	2872.4085
10	Steel Reinforcement for R.C.C work including straightening, cutting, bending placing in position and binding all complete. Upto plinth level						
	Thermo-Mechanically Treated bars. (TMT bars)	5.22.6	1	597.42	kg	89.65	53558.703
	COST OF 7.00 MTR LENGTH CULVERT						173323.763

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG

ABSTRACT OF EXTERNAL SEWER LINE

S.N.	DSR-2021	DESCRIPTION	UNIT	QTY	RATE DSR	AMOUNT
1	2.1	Excavating trenches of required width for pipes, cable, etc including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 1.50m including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m.				
	2.10.1	All kinds of soil				
	2.10.1.2	Pipes cables etc. exceeding 80 mm dia. But not exceeding 300mm dia.	Mtr	261.37	417.35	109082.7695
2	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	19.6.2	150 mm dia. R.C.C. pipe	Mtr	13.162	493.1	6490.1822
3	19.6.3	250 mm dia. R.C.C. pipe	Mtr	248.212	811.15	201337.1638
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).	Cum	11.63	6050.65	70369.0595
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	52.27	307.95	16096.5465
6	19.7	Constructing brick masonry manhole in cement mortar 1 : 4 (1 cement : 4 coarse sand) with RCC top slab with 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20mm nominal size); foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1cement 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finishd with a floating coat of neat cement complete as per standard design				
	19.7.1	Inside size 90 x 80 cm & 45 cm deep including CI cover with frame (light duty) 455 x 610mm internal dimensions, total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)				
	19.7.1.1	With common burnt clay F.P.S.(non modular) bricks of classic designation 7.5	each	8	11687.1	93496.8
7	19.7.3	Inside size 120 x 90 cm & 90 cm deep including CI cover with frame (Medium duty) 560mm internal diameter, total wt. of cover & frame to be not less than 208 kg (wt. of cover 108 kg and wt. of frame 100 kg)				
	19.7.3.1	With common burnt clay F.P.S.(non modular) bricks of classic designation 7.5	each	3	30197.95	90593.85
8	19.8	Extra for depth for manholes:				
	19.8.1	size 90 X 80 cm				
	19.8.1.1	designation 7.5	metre	2	8127.45	16254.9
9	19.8.2	size 120 X 90 cm				
	19.8.2.1	designation 7.5	metre	0.75	9744.25	7308.1875

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

BILL OF QUANTITY FOR INTERNAL DRAIN

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	RATE RS.	AMOUNT RS.
	APRON DRAIN				
1	COST FOR DRAIN 230mm X 300mm de	169.258	Rm	2261.4795	382773.4972
				TOTAL	382773.4972
	ROAD AND PATH DRAIN				
1	COST FOR DRAIN 300mm X 450mm de	164.35	Rm	3541.613	582064.0966
				TOTAL	582064.0966

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, S
ESTIMATE FOR H.T./L.T. PANEL & FEEDER PILLARS

S.N.	Name of Item	Qty	Unit	Rate	Amount
1	SUB FEEDER PANEL				
	Incoming				
	MCCB 200A 35KA TPN	1	Nos		
	INDICATION LIGHT	3	Nos		
	BUS-BAR FEEDERS				
	200AMP ALU.BUS-BAR TPN	1	SETS		
	Out going				
	G/D Phase-B MCCB 125A 35KA TPN	1	Nos		
	B/D Phase-B MCCB 125A 35KA TPN	1	Nos		
	Type 5 MCCB 32A 35KA TPN	1	Nos		
	Guest House MCCB 32A 35KA TPN	1	Nos		
	Type 2 (G+2) MCCB 63A 35KA TPN	1	Nos		
	Spare	1	Nos		
	Emergency Section				
	Incoming				
	MCB 125A 63KA TPN	1	Nos		
	Out going				
	B/D Phase-B MCB 63A 35KA DP	1	Nos		
	G/D Phase-B MCB 63A 35KA DP	1	Nos		
	Type 3 (G+1) MCB 32A 35KA DP	1	Nos		
	Type 5 MCB 32A 35KA DP	1	Nos		
	Guest House MCB 32A 35KA DP	1	Nos		
	Type 3 (G+2) MCCB 32A 35KA DP	1	Nos		
	Type 2 (G+1) MCCB 32A 35KA DP	1	Nos		
	Type 2 (G) MCCB 32A 35KA DP				
	Spare	1	Nos		
	ENCLOSURE				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET ,	1	Set	150000	150000
2	OFFICE BUILDING PANEL				
	Incoming				
	100Amp MCCB TP 35 KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	150Amp Aluminum bus-bar TPN	1	Set		
	Out going				
	63Amp MCB TPN 10KA	3	Nos		
	63Amp MCB TPN 10KA (SPARE)	1	Nos		
	Emergency Section				
	Incoming				
	63Amp MCB DP 10KA	1	Nos		

S.N.	Name of Item	Qty	Unit	Rate	Amount
	Out going				
	25Amp MCB DP 10KA	3	Nos		
	32Amp MCB DP 10KA	1	Nos		
	ENCLOSURE	1	SETS		
	1050*1450*150 (17 SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET ,	1	Set	95000	95000
					245000
1	SUB FEEDER PANEL	1	Set	150000	150000
2	OFFICE BUILDING PANEL	1	Set	95000	95000
					245000

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHIL

ESTIMATE FOR EXTERNAL ELECTRIFICATION

S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
		G.I. Earth pipe electrode with salt/charcoal:				
1	5.2	Earthing with GI earth pipe 4.50 meter long 40mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with charcoal or coke and salt complete as required.	8	Set	6855	54840
2	5.16	Providing & laying earth connection from earth electrode with 6 SWG dia GI wire in 15 mm Gi pipe from earth electrode including connection with GI thimble excavation and refilling etc as required. (for GI pipe earthing of poles)	80	Mtr	70	5600
						0
3	2.21	Providing and fixing MV danger notice plate of 200 mm x 150 mm made of mild steel atleast 2 mm thick and vitreous enameled white on both sides & with inscription in signal red colour on front side as required.(on 7mts poles & panels)	8	Nos	269	2152
		LT CABLES LAYING				
4	7.1	Laying of one number XLPE insulated and PVC sheathed power cable of 1.1KV grade of following sizes direct in ground including excavation sand cushioning protection covering and refilling the trench etc. as required.				
	7.1.1	Size not exceeding 35 Sqmm	1379	Rmt	387	533673
	7.1.2	Size exceeding 35 Sqmm not exceeding 95 sqmm	293.46	Rmt	405	118851.3
	7.1.3	Sqmm	30	Rmt	422	12660
5	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required				
	9.1.2	2.00 x 10 sq.mm.	10	Nos	241	2410
	9.1.3	2.00 x 16 sq.mm.	6	Nos	256	1536
	9.1.34	4.00 x 25 sq.mm.	10	Nos	315	3150
	9.1.23	3.50 x 70 sq.mm.	6	Nos	468	2808
	9.1.25	3.50 x 120 sq.mm.	2	Nos	613	1226
	9.1.29	3.50 x 240 sq.mm.	2	Nos	1027	2054
6	2.1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	33	Meter	417.35	13772.55

S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
7	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	19.6.2	150 mm dia. R.C.C. pipe	33	Meter	493.1	16272.3
		Total				771005.15

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

Abstract for Retaining Wall Height 3.0 Meter

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) I manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	162.63	Cum	286.85	46650.4155
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	80.51	Cum	253.95	20445.5145
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	12.36	Cum	6050.65	74786.034
4	24.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.				
		The elevational area of the scaffolding shall be measured for payment purpose.	119.58	Sqm	285	34080.3
5	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge				
a	5.33.1	All works upto plinth level	81.72	Cum	7997.3	653539.356
b	5.33.2	All works above plinth level upto floor V level	23.92	Cum	10080.15	241117.188
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	68.95	Sqm	307.95	21233.1525
7	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	167.41	Sqm	669.55	112089.3655
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	12439.11	Kg	89.65	1115166.212
9	12.41.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i)Single socketed pipes.	36	metre	319.75	11511
		75 mm diameter				

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
10	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	8.25	Cum	6658.25	54930.5625
11	6.1.2	15 mm cement plaster on rough side of single or half brick wall of mix :				
		1:6 (1 cement: 6 coarse sand)	80.92	Sqm	339.1	27439.972
		DSR Total				2412989.072

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

Abstract for Retaining Wall Height 4.0 Meter

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) I manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	168.14	Cum	286.85	48230.959
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	104.82	Cum	253.95	26619.039
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	12.39	Cum	6050.65	74967.5535
4	24.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions sand approval of Engineer-in-charge.				
		The elevational area of the scaffolding shall be measured for payment purpose.	161.67	Sqm	285	46075.95
5	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge				
a	5.33.1	All works upto plinth level	66.69	Cum	7997.3	533339.937
b	5.33.2	All works above plinth level upto floor V leve	80.84	Cum	10080.15	814879.326
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	75.73	Sqm	307.95	23321.0535
7	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	501.18	Sqm	669.55	335565.069
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	7852.75	Kg	89.65	703999.0375
9	12.41.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i)Single socketed pipes.	48.6	metre	319.75	15539.85
		75 mm diameter				
10	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
		Cement mortar 1:6 (1 cement : 6 coarse sand)	11.16	Cum	6658.25	74306.07
11	6.1.2	15 mm cement plaster on rough side of single or half brick wall of mix :				
		1:6 (1 cement: 6 coarse sand)	109.39	Sqm	339.1	37094.149
		DSR Total				2733937.994

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

Abstract for Retaining Wall Height 5.0 Meter

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) I manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	191.98	Cum	286.85	55069.463
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	131.65	Cum	253.95	33432.5175
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	9.08	Cum	6050.65	54939.902
4	24.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.				
		The elevational area of the scaffolding shall be measured for payment purpose.	171.4	Sqm	285	48849
5	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge				
a	5.33.1	All works upto plinth level	60.51	Cum	7997.3	483916.623
b	5.33.2	All works above plinth level upto floor V level	64.28	Cum	10080.15	647952.042
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	103.14	Sqm	307.95	31761.963
7	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	383.94	Sqm	669.55	257067.027
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	7125.05	Kg	89.65	638760.7325
9	12.41.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i)Single socketed pipes.	30.6	metre	319.75	9784.35
		75 mm diameter				
10	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
		Cement mortar 1:6 (1 cement : 6 coarse sand)	7.1	Cum	6658.25	47273.575
11	6.1.2	15 mm cement plaster on rough side of single or half brick wall of mix :				
		1:6 (1 cement: 6 coarse sand)	69.58	Sqm	339.1	23594.578
		DSR Total				2332401.773

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.						
Abstract for Retaining Wall Height 6.0 Meter						
S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) I manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	193.46	Cum	286.85	55494.001
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	132.9	Cum	253.95	33749.955
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	9.11	Cum	6050.65	55121.4215
4	24.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.				
		The elevational area of the scaffolding shall be measured for payment purpose.	176.4	Sqm	285	50274
5	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge				
a	5.33.1	All works upto plinth level	60.27	Cum	7997.3	481997.271
b	5.33.2	All works above plinth level upto floor V leve	70.56	Cum	10080.15	711255.384
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	74.08	Sqm	307.95	22812.936
7	5.9.2	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	388.08	Sqm	669.55	259838.964
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	7096.79	Kg	89.65	636227.2235
9	12.41.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i)Single socketed pipes.	26.1	metre	319.75	8345.475
		75 mm diameter				
10	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	6.09	Cum	6658.25	40548.7425
11	6.1.2	15 mm cement plaster on rough side of single or half brick wall of mix :				
		1:6 (1 cement: 6 coarse sand)	59.68	Sqm	339.1	20237.488
		DSR Total				2375902.862

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

Abstract Cost of RR Stone Masonary Retaining Wall (Based on DSR-2021)

S.No.	Details	Nos.	Rate	Length	Amount
1	Cost estimation of Retaining Wall				
1	Construction of RR Stone Masonary Wall 1.00mtrs height	1	13668.85386	43.3	591861.3722
2	Construction of RR Stone Masonary Wall 2.00 mtrs height	1	18873.50471	115.87	2186872.991
	Total				2778734.363

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.						
Abstract for Retaining Wall Height 1.50 Meter						
COST ESTIMATE						
S. No.	DSR-21	DESCRIPTION	Quantity	UNIT	Rate	Total Amount (Rs.)
1	2.9	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.9.1	Ordinary rock	0.72	Cum	523.5	376.92
2	2.9	Excavation work by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
	2.9.1	Ordinary rock	0.72	Cum	523.5	376.92
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	0.753	Cum	253.95	191.22435
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	0.18	Cum	6050.65	1089.117
5	4.2	Providing and laying 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, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.147	Cum	9375.2	1378.1544
6	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete				
	5.22.6	Thermo-Mechanically Treated bars.	17.30925	KG	89.65	1551.774263
7	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.027	Cum	6653.45	6833.09315
8	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.141	Cum	8275.7	1166.8737

9	13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand)					
	13.33.1	Flush/ Ruled pointing	1	Sqm	319.35	319.35	
10	13.37	White washing with lime to give an even shade:					
	13.37.1	New work (three or more coats)	1	Sqm	32.45	32.45	
11	12.41	Providing and fixing un plasticised Rigid PVC rain water pipe conforming to IS: 13592 type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion, Single socketed pipes.					
	12.41.1	75mm diametre	0.58	Meter	213	123.54	
12	(24.5+24.6)/2	Supplying, filling, spreading & leveling gravel stone of required size in the side of Retaining Wall / Stone Wall, for all leads & lifts, all complete as per direction of Engineer-in-charge.	0.74	Cum	310.05	229.437	
					Total	13668.85386	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.						
Abstract for Retaining Wall Height 2.0 Meter						
COST ESTIMATE						
S. No.	DSR-21	DESCRIPTION	Quantity	UNIT	Rate	Total Amount (Rs.)
1	2.9	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.9.1	All kinds of soil	0.855	Cum	523.5	447.5925
2	2.9	Excavation work by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
	2.9.1	Ordinary rock	0.855	Cum	523.5	447.5925
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	0.9365	Cum	253.95	237.824175
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	0.234	Cum	6050.65	1415.8521
5	4.2	Providing and laying 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, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.147	Cum	9375.2	1378.1544
6	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete				
	5.22.6	Thermo-Mechanically Treated bars.	17.30925	KG	89.65	1551.774263
7	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.3195	Cum	6653.45	8779.227275
8	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.423	Cum	8275.7	3500.6211

9	13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand)					
	13.33.1	Flush/ Ruled pointing	2	Sqm	319.35	638.7	
10	13.37	White washing with lime to give an even shade:					
	13.37.1	New work (three or more coats)	2	Sqm	32.45	64.9	
11	12.41	Providing and fixing un plasticised Rigid PVC rain water pipe conforming to IS: 13592 type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion, Single socketed pipes.					
	12.41.1	75mm diametre	0.58	Meter	213	123.54	
12	(24.5+24.6)/2	Supplying, filling, spreading & leveling gravel stone of required size in the side of Retaining Wall / Stone Wall, for all leads & lifts, all complete as per direction of Engineer-incharge.	0.928	Cum	310.05	287.7264	
					Total	18873.50471	

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

BOQ TUBE WELL INCLUDING SUBMERSIBLE PUMP

S.N.	DESCRIPTION OF ITEM	DSR-21	QTY	UNIT	RATE	AMOUNT DSR	AMOUNT NON-DSR
1	Mobilization & Demobilization of drilling rig at site along with other related equipments	NDSR	1	No	30000		30000
2	Geophysical study for calculations of zone wise aquifer characteristics along with the designs of tube well etc.	NDSR	1	No	40000		40000
3	Collection of drill cutting samples, analysis of samples, preparation of logs, logs analysis of all the drilling data for designing the well assembly for lowering.	NDSR	1	No	10000		10000
4	Geophysical logging (using Sp, 16-64-N & lateral) of the borehole to demarcate the exact aquifers for deciding well assembly in corroboration with lithologs	NDSR	1	No	30000		30000
5	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.						0
A	All types of soil 300 mm dia	23.1.1 23.1.1.1	90	M	592.05	53284.5	
	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.	23.2					
B	All types of soil 300 mm dia (90 to 150 mts)	23.2.1 23.2.1.1	10	M	690.7	6907	0
6	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.						0
A	200 mm nominal size dia	23.3.3	70	M	971.3	67991	
B	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.	23.11					
B	200 mm nominal size dia	23.11.3	30	M	2194.85	65845.5	
C	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).	23.15					
C	200mm dia	23.15.3	2	Nos	308.55	617.1	
D	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.	23.14.3	3	Nos	1827	5481	
D	200 mm clamp						
7	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	23.8	35	Cum	1479.25	51773.75	0
8	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	23.12	100	Hour	916.8	91680	0
9	Supply & installation of submersible pump of make KSB 7.5 HP with control panel, support wire etc. complete.	NDSR	1	Set	75000		75000
10	Providing & fixing 3 core 4 sqmm Copper stranded conductor submersible flat cable connected to pump with water proof joint and connection to submersible panel board with necessary lugs, etc.	NDSR	120	M	219.67		26360.4

S.N.	DESCRIPTION OF ITEM	DSR-21	QTY	UNIT	RATE	AMOUNT DSR	AMOUNT NON-DSR
							0
11	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 80 mm nominal bore	18.46.8	95	Mtr	1061.25	100818.75	
12	Installation and Commissioning of pump set and all other necessary fitting.	NDSR	1	No	5000		5000
							0
13	Providing & fixing factory made out door type, weather proof Panel Board for submersible pump with 7.5 HP motor, fitted with DOL starter, ammeter, voltmeter, single phase preventer MCB's, on/ off switch push button duly wired and made out of 14 SWG sheet, complete with locking arrangements, grouted on ground, complete as directed by Project Director / Architect.	MR	1	Each	25000		25000
							0
15	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.		23.4				
	200 mm nominal size dia	23.4.3	70	M	1099.25	76947.5	
	TOTAL for 1 no.					521346.1	241360.4

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DIST

SUMMARY OF CIVIL WORKS

S. No.	Description	UGWT Amount (Rs)	
	DSR 2021		
1	EARTH WORK	246759.56	
2	CONCRETE WORK	30253.25	
3	REINFORCED CEMENT CONCRETE	1355578.65	
4	BRICK WORK	82883.5	
5	FLOORING	146151.6	
6	FINISHING	38663.55	
7	WATER PROOFING	97506.6	
	Total (A)	1997796.71	
	Say	19.9779671	Lacs

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

COST ESTIMATE (UGWT)

S. No.	DSR.Rf. 2021	Description	Unit	Quantity of UG	Rate	Amount (Rs.)
SCHEDULE A:- DSR ITEMS						
1	2	EARTH WORK				
1.01	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
a)	2.6.1	All kinds of soil	Cum	186.4	205.45	38295.88
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	112	253.95	28442.4
1.03	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a)	2.26.1	All kinds of soil.				
b)		1.5 m to 3.0 m	Cum	64	104.5	6688
c)		3.0 m to 4.5 m	Cum	60	209	12540
1.04	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	74.4	2161.2	160793.28
Total of sub-head						246759.56
2	4	CONCRETE WORK				
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a)	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).	Cum	5	6050.65	30253.25
Total of sub-head						30253.25
3	5	REINFORCED CEMENT CONCRETE				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
a)	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	12	307.95	3695.4
b)	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	213	669.55	142614.15
c)	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	47	766.55	36027.85
3.02	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a)	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kilogram	8359	89.65	749384.35

S. No.	DSR.Rf. 2021	Description	Unit	Quantity of UG	Rate	Amount (Rs.)
3.03	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately).				
		(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
a)	5.33.1	All works upto plinth level	Cum	53	7997.3	423856.9
		Total of sub-head				1355578.65
4	6	BRICK WORK				
4.01	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	10	8288.35	82883.5
		Total of sub-head				82883.5
5	11	FLOORING				
5.01	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	104	1063.45	110598.8
5.02	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	38	935.6	35552.8
		Total of sub-head				146151.6
6	13	FINISHING				
6.01	13.4	12 mm cement plaster of mix				
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	34	294.35	10007.9
6.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	41	339.1	13903.1
6.03	13.16	6mm cement plaster of mix				
	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	9	253.05	2277.45
6.04	13.37	White washing with lime to give an even shade :				
	13.37.1	New work (three or more coats)	Sqm	9	32.45	292.05
6.05	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	34	162.55	5526.7
6.06	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	41	162.35	6656.35
		Total of sub-head				38663.55
7	22	WATER PROOFING				
7.01	22.4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :				
	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Metre	26	285.6	7425.6

S. No.	DSR.Rf. 2021	Description	Unit	Quantity of UG	Rate	Amount (Rs.)
		<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage.</p>				
7.02	22.23					
a)	22.23.1	For vertical surface two coats @0.70 kg per sqm per coat	Sqm	188	406.25	76375
b)	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	44	311.5	13706
		Total of sub-head				97506.6

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAS

Cost of Septic Tank

S.N.	DESCRIPTION OF WORK	
1	Septic Tank 150 User (1 no)	644728.44
	Total	644728.44

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

ABSTRACT FOR RCC SEPTIC TANK 150 USERS

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil. 0.00-1.50m	123.64	Cum	286.85	35466.13
2	2.26.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
		All kinds of soil. 1.50-3.00m	56.2	Cum	104.5	5872.9
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	30.91	Cum	253.95	7849.59
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.10	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	2.56	Cum	6050.65	15489.66
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:				
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	22.24	Cum	8364.2	186019.81
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	8.9	Sqm	307.95	2740.76
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick.	145.2	Sqm	766.55	111303.06
8	5.9.5	with water proof ply 12 mm thick	7.41	Sqm	608.35	4507.87
9	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20 cm wide	22.04	Meter	181.9	4009.08
10	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	2224	Kg	89.65	199381.6
11	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	18.48	Sqm	545	10071.6
12	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	73.82	Sqm	253.05	18680.15

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
13	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	19.19.3	HD-20				
	19.19.3.1	Circular shape 560 mm internal diameter	2	Nos	1494.2	2988.4
14	19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes	16	Nos	487.1	7793.6
15	17.35	Providing and fixing soil, waste and vent pipes				
	17.35.1	100 mm dia.				
	17.35.1.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	4.2	Meter	1077.4	4525.08
16	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	Nos	28029.15	28029.15
		Cost for 1 Nos Septic Tank				644728.44

DETAILED ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

LANDSCAPING , PLANTS , PLANTERS

S.No.	Horticulture DSR-20 Code	Description of Item	Quantity	Rate	DSR-Amount	Unit	MR.Amount
1	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.					
	2.28.1	All kinds of soil	914.8455	28.15	25752.90083	sqm	
2	2.5	Rough dressing the trenched ground including breaking clods.	914.8455	1.5	1372.26825	sqm	
3	2.6	Uprooting weeds from the trenched area after 10 to 15 days of flooding with water including disposal of uprooted vegetation.	914.8455	4.9	4482.74295	sqm	
4	2.2	Supplying and stacking of good earth at site including royalty, carriage, loading-unloading with all leads and lifts (the earth measured in stacks will be reduced by 20% for	137.23	515.6	70755.788	cum	
5	2.4	supplying of dung manure at site including royalty, carriage, loading-unloading with all leads and lifts (the dung manure measured in stacks will be reduced by 8% for payment).					
	2.4.3	screened through sieve of I.S. designation 4.75 mm	13.723	319.9	4389.9877	cum	
6	2.8	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid mixing earth and sludge or manure in the	13.723	52.35	718.39905	cum	
7	2.9	required proportion specified or directed by the Officer-in-charge	13.723	36.55	501.57565	sqm	
8	2.7	Fine dressing the ground.	914.8455	3.7	3384.92835	sqm	
9	2.33	Providing and laying Neegin/mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhumos) and than rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.	914.8455	214.4	196142.8752	sqm	
10	2.14.2	Digging or holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flood with water. Dressing including removal of rubbish and surplus eart, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for					
a	2.14.1	Holes 1.2 m dia and 1.2 m deep		45	335.5	15097.5	each
b	2.14.2	Holes 90 cm dia, and 90 cm deep		45	143.1	6439.5	each
11	2.13	Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50 m, lift up to 1.5	13.723	222.85	3058.17055	Cum	
12	7.24	Supply and stacking of Delonix regia (Gulmohar) plant of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge	20	60	1200	each	
13	8.1	Supply and stacking of plant Cassia biflora of height 90-105 cm., well branched, bushy in big size HDPE bag as per direction of the officer-in-charge.	33	100	3300	each	
				Sub Total	336596.6365		

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.**RAIN WATER HARVESTING**

S. No.	DSR 2021 Ref. No.	DESCRIPTION	R.W.H	
1	1.0	EARTH WORK	95258.775	
2	2.0	CONCRETE WORK	48900.35	
3	3.0	REINFORCED CEMENT CONCRETE	74241.5	
4	4.0	BRICK WORK	57175.2	
5	5.0	FINISHING	28214.1	
6	6.0	SEWARAGE & DRAINAGE	8307.35	
7	7.0	RAIN WATER HARVESTING & TUBEWELLS	107034.7	
		COST FOR 1 NOS RECHARGE WELL	419131.975	
		COST FOR 2 NOS RECHARGE WELL	838263.95	

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.

COST ESTIMATE OF RAIN WATER HARVESTING

S. No.	DSR 2021 R	Description	Unit	R.W.H	Rate (Rs)	R.W.H Amount (Rs.)
1	2	EARTH WORK				
1.01	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
a)	2.6.1	All kinds of soil	cum	19	205.45	3903.55
1.02	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
a)	2.7.1	Ordinary rock	cum	28.5	412.95	11769.075
b)	2.7.3	Hard rock (blasting prohibited)	cum	47.5	1184.3	56254.25
1.03	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	82	253.95	20823.9
1.04	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a)		All kinds of soil.				
a)i	2.26.1	1.5m to 3.0m	cum	24	104.5	2508
		Total of sub-head				95258.775
2	4	CONCRETE WORK				
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a)	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cum	1	7365.15	7365.15
b)	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	4	6326.05	25304.2
c)	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).	cum	1	6326.05	6326.05
2.02	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	87	113.85	9904.95
		Total of sub-head				48900.35
3	5	REINFORCED CEMENT CONCRETE				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
c)	5.9.3	Suspended floors, roofs, landings, balconies and access platform	sqm	6	766.55	4599.3
3.02	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a)	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kilogram	420	89.65	37653

S. No.	DSR 2021 R	Description	Unit	R.W.H	Rate (Rs)	R.W.H Amount (Rs.)
3.03	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately).				
	5.33.1	All works upto plinth level	cum	4	7997.3	31989.2
		Total of sub-head				74241.5
4	6	BRICK WORK				
4.01	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
a)	6.2.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	10	5549.95	55499.5
4.02	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	2	837.85	1675.7
		Total of sub-head				57175.2
5	13	FINISHING				
5.01	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a)	13.2.2	1:6 (1 cement: 6 fine sand)	sqm	87	324.3	28214.1
		Total of sub-head				28214.1
6	19	SEWARAGE & DRAINAGE				
6.01	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
a)	19.6.3	250 mm dia. R.C.C. pipe	Metre	3	811.15	2433.45
6.02	19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :				
a)	19.15.1	With 20x20 mm square bar	Each	5	461.35	2306.75
6.03	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
a)	19.19.1	L D- 2.5				
i)	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	Each	2	1255.25	2510.5
b)	19.19.2	M D - 10				
i)	19.19.2.2	Circular shape 500mm internal diameter	Each	1	1056.65	1056.65
		Total of sub-head				8307.35
7		RAIN WATER HARVESTING & TUBEWELLS				
7.01	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
a)	23.1.1	All types of soil				
a) i	23.1.1.1	300 mm dia	Metre	50	592.05	29602.5
b)	23.1.2	Rocky strata including Boulders.				
b) i	23.1.2.1	300 mm dia	Metre	20	1416.3	28326

S. No.	DSR 2021 R	Description	Unit	R.W.H	Rate (Rs)	R.W.H Amount (Rs.)
7.02	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
a)	23.3.2	150 mm nominal size dia.	Metre	50	668.5	33425
7.03	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	4	1302.3	5209.2
7.04	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	5	1309	6545
7.05	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -incharge.	Cum	3	1309	3927
		Sub Head Total				107034.7

0						
Abstract						
S.No.	DSR-18	Description	Quantity	Unit	Rate	Amount
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) /	39.86	Cum	252.3	10056.68
2	2.26.1	Extra for every additional lift of 1.5 m or part thereof in 1.50-3.00	0	Cum	90.4	0
2	2.25	Backfilling of Excavated Earth	23.92	Cum	219.65	5254.03
3	2.34.1	Supply Chemical emulsion for Anti Termite Treatment	7	Ltr	200.85	1405.95
4	2.35.3.1	Anti Termite treatment	7	Sqm	277.05	1939.35
5	4.1.10	PCC 1:5:10 below Footings	2.94	Cum	5520.3	16229.68
6	5.33.1	Providing and laying design mix M-25 upto PL	6.8	Cum	7997.3	54381.64
7	5.33.2	Providing and laying design mix M-25 above PL	22.93	Cum	9400.85	215561.5
8	5.35	Add for Extra cement in RCC M-25	29.73	Qtl	673.3	20017.21
9	5.9.1	C/S for Mass concrete	10.16	Sqm	284.85	2894.08
10	5.9.6	C/S for Column	10.5	Sqm	733.7	7703.85
11	5.11.1	C&S of Extra for additional height over 3.5m	183.52	Sqm	287.5	52762
12	5.9.16.1	C/S for Edges	62.72	Sqm	173.25	10866.24
13	5.9.20	C/s for Slab	12.66	Sqm	779.3	9865.94
14	5.9.21	C/S for Beam	42.76	Sqm	641.6	27434.82
15	5.22.6	Reinforcement for RCC work	3500.71	Kg	83.5	292309.3
16	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	19.02	Cum	7590.45	144370.4
17	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				

	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	22.4	Kg	106.45	2384.48
18	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).				
	10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	232.32	Kg	166.5	38681.28
19	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :				
	10.30.1	4.0 mm thick glass panes	5.82	Sqm	900.55	5241.2
20	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2.25	Sqm	1886.7	4245.08
21	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.48.1	Fixed to steel windows by welding	79.2	Kg	165.3	13091.76
22	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				

	9.96.2	200x10 mm	2	Each	231.7	463.4
23	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
	9.97.3	200x10 mm	2	Each	90	180
24	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
	9.101.2	Twin rubber stopper	2	Each	62.05	124.1
25	10.15.1	Fixing with 15x3 mm lugs 10 cm. long.	618.91	Kg	137.3	84976.34
26	12.41.2	PVC Rain Water Pipe	7	Rmt	305.05	2135.35
27	13.4	12 mm cement plaster of mix				
	13.4.2	1:6 (1 cement: 6 coarse sand)	120.3987	Sqm	263.55	31731.08
28	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
	13.5.2	1:6 (1 cement: 6 coarse sand)	152.93	Sqm	303.9	46475.43
29	13.26	Providing and applying plaster of paris putty of 2 mm thickness	342.83	Sqm	196.7	67434.66
30	13.16.1	6mm Ceiling Plaster 1:3	69.5	Sqm	227.35	15800.83
31	13.41.1	Oil Bound Distemper	189.8987	Sqm	153.45	29139.96
32	13.47.1	Preimun Acrylic Smooth Exterior Paint	152.93	Sqm	161.15	24644.67
33	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	4.5	Sqm	57.05	256.73
34	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	56.4	Sqm	50.7	2859.48

35	13.62.1	Synthetic Enamel Paint	60.9	Sqm	177.15	10788.44
36	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	11.26.1	25 mm thick.	6.25	Sqm	1531.85	9574.06
37	16.3.9+ 2.	Supply & Filling Good Earth Carriage 10Km	0.94	Cum	703.55	661.34
		Total				1263942
		SAY			Lacs	12.63942

Sr. No	Description	Unit	Quantity	Rate	Amount
	Ground Floor - Reception				
1	Reception Table 1800 x 1050 x 900	Nos	1	195000	195000
2	Single Seater Sofa	Nos	2	32000	64000
3	Three Seater Sofa	Nos	1	62000	62000
4	Center Table (900x450x450)	Nos	1	25000	25000
5	Reception Chair	Nos	1	15500	15500
	Ground Floor - Care Taker and Driver Room				
6	Single Seater Sofa	Nos	6	32000	192000
7	Single Bed - 1200x1800x450	Nos	1	20000	20000
	Ground Floor - Canteen				
8	Table - 600x690x750	Nos	7	18360	128520
9	Canteen Chairs	Nos	10	6500	65000
10	Almirah - 1740x750x2900	Nos	1	57500	57500
	Ground Floor - Library				-
11	Table - 3580x600x750	Nos	2	52850	105700
12	Chairs	Nos	20	11800	236000
13	Books Almirah (3580x600x2900)	Nos	1	135950	135950
	First Floor - Working Hall				-
14	Wardrobe - 1740x750x2900	Nos	4	85000	340000
15	Workstation Table - 1200x685x750	Nos	20	58500	1170000
16	Chairs	Nos	20	15500	310000
17	Drawer - 161x750x750	Nos	20	10500	210000
	First Floor - EE Room				-
18	Table - (2315x1335x750)	Nos	1	17500	17500
19	Chairs	Nos	4	28500	114000
	First Floor - Asst. Commissioner - A.CAD				-
20	Table - (2315x1335x750)	Nos	2	157500	315000
21	Chairs	Nos	8	28500	228000
	First Floor - Store Room				-
22	Almirah 1740x750x2900	Nos	1	57500	57500
	Second Floor - Asst. Commissioner Room				-
23	Table - (2315x1335x750)	Nos	2	157500	315000
24	Chairs	Nos	8	28500	228000
25	Three Seater Sofa	Nos	2	55500	111000
26	Center Table (900x450x450)	Nos	2	22115	44230
27	Almirah 1740x750x2900	Nos	2	57500	115000
	Second Floor - Conference Room				-
28	Table - 5500x1500x750	Nos	1	165000	165000
29	Chairs	Nos	15	18800	282000
	Second Floor - Workstation				-
30	Table - 1200x685x750	Nos	6	35800	214800
31	Pedestal - 165x750x750	Nos	6	10500	63000
32	Almirah 1740x750x2900	Nos	1	57500	57500
33	Chairs	Nos	6	15500	93000
	Second Floor - Accounts Officer's Cabin				-
34	Table - (2315x1335x750)	Nos	1	157500	157500
35	Chairs	Nos	4	18900	75600
36	Almirah 1740x750x2900	Nos	1	57500	57500
	Second Floor - PA Room				-
37	Table - 1500x750x750	Nos	1	42300	42300
38	Chairs	Nos	3	15800	47400
	Entertainment/Recreation Room				
39	Single Seater Sofa	Nos	4	32000	128000
40	Three Seater Sofa	Nos	1	62000	62000
41	Table - 1200x685x750	Nos	1	35800	35800
42	Pool Table	Nos	2	250000	500000
43	Coffee Machine/Water Cooler Table	Nos	1	50000	50000
		Basic Amount			6908800

Furniture Details			
Sr. No	Description	Unit	Quantity
	Ground Floor - Reception		
	Reception Table 1800 x 1050 x 900 Supply and Installation of Kingsley Premium main table of size 1800 X 1050 X 900 mm completely made up of Prelam particle board conforming to IS : 12823 Interior Grade with PVC edge banding. Top are with 25mm thk boards with 2mm PVC edge banding with enhanced scratch resistance supported on 25mm thk. Gable ends and 18mm thk Modesty panels exposed edges are in 2mm thk PVC edge banding & sealed edges are in 0.8mm thk PVC edge banding. Separate provision for mounting switches on the wall adjoining the tables shall be made by customer as the tables do not come with switch mounting facility. Wire routing / wire management gromets (Wipro Patented Squeezee) shall be provided on main or side table as specified by customer. Side/Return table of size 1050X450mm completely made up of Prelam particle board conforming to IS : 12823 Interior Grade with PVC edge banding. Top is in 25mm thk baord with 2mm PVC edge banding supported on 25mm thk. Gable ends and 18mm thk. Modesty panel. Exposed edges are in 2mm thk PVC edge banding & sealed edges are in 0.8mm thk PVC edge banding. Separate provision for mounting switches on the wall adjoining the tables shall be made by customer as the tables do not come with switch mounting facility. Wire routing / wire management gromets (Wipro Patented Squeezee) shall be provided on main or side table as specified by customer.	Nos	1
1			
2	Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	2
3	Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	1
4	Center Table (900x450x450) Supplying & placing center table with an overall size 900mm X 450mm X 450mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.	Nos	1
5	Reception Chair Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded polypropylene fixed arm completely joint with seat. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 465±10 mm(W) X 500±10 mm(D) and back size shall be 555±10 mm(H) from seat & overall height = 960±10 mm.	Nos	1
	Ground Floor - Care Taker and Driver Room		
6	Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	6
7	Single Bed - 1200x1800x450 STRUCTURE SHALL BE MADE OF 18MM THICK PRELAMINATED PARTICLE BOARD WITH ONE DRAWER UNIT. ALL THE EDGE SHALL BE PROTECTED WITH 2MM THICK RIGID PVC EDGE BANDING.	Nos	1
	Ground Floor - Canteen		
8	Table - 600x690x750 Supplying & placing cafe table with an overall size 600mm X 690mm X 750mm. The top of the table shall be made up of SS 202 grade sheet of 1 mm thick duly matt finish and supported by 25mm thick particle board. The profile shall be in square shape. The top shall be supported on MS powder coated 2mm thick sheet. The table under structure shall be made up of SS grade 202 base pole leg having size 60mm X 60mm with 1.2mm thick. The base plate shall be SS 202 grade base having size 460mm X 460mm.	Nos	7

9	<p>Canteen Chairs Supplying & Placing cafe chair. The seat shall be made of wooden ply and the back shall be made of metal frame. The seat and back shall be fixed with plywood & metal frame. The frame structure shall be supported by four legs made up of MS CRCA chrome plated round pipe of Dia 28.5mm with 1.6mm thick and three round strip at back side of Dia. 13mm. There shall be PPCP shoe provided at the base to avoid scratches on the floor.</p> <p>The seat size shall be 410±10 mm(D) X 410±10 mm(W) and back size shall be 475±10 mm(W) X 310±10 mm(H) from seat. Overall height shall be = 765±10 mm.</p>	Nos	10
10	<p>Alimirah - 1740x750x2900. It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.</p>	Nos	1
Ground Floor - Library			
11	<p>Table - 3580x600x750 Supplying & placing table with an overall size 3580mm X 600mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.</p>	Nos	2
12	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	20
13	<p>Books Almirah (3580x600x2900) It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.</p>	Nos	1
First Floor - Working Hall			

14	<p>Wardrobe - 1740x750x2900 It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.</p>	Nos	4
15	<p>Workstation Table - 1200x685x750 Supplying & Placing Modular table in completely knock down conditions with an overall size 1200mm X 685mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall have the size 1200mm X 685 mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The side top shall have the size 900mm X 450mm X 750mm with 25mm thick Pre-laminated particle board. The table top profile shall be in rectangle shape with one side round and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board. The tray shall be operated on keyboard channel. The table top and side top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the bottom to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	Nos	20
16	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	20
17	<p>Drawer - 161x750x750</p>	Nos	20
	<p>First Floor - EE Room</p>		
18	<p>Table - (2315x1335x750) Supplying & placing table with an overall size 2315mm X 1335 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.</p>	Nos	1
19	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	4
	<p>First Floor - Asst. Commissioner - A.CAD</p>		

20	Table - (2315x1335x750) Supplying & placing table with an overall size 2315mm X 1335 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.	Nos	2
21	Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m ³ in seat 19mm thick having density 23kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.	Nos	8
First Floor - Store Room			
22	Almirah 1740x750x2900 It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.	Nos	1
Second Floor - Asst. Commissioner Room			
23	Table - (2315x1335x750) Supplying & placing table with an overall size 2315mm X 1335 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.	Nos	2
24	Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m ³ in seat 19mm thick having density 23kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.	Nos	8
25	Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	2
26	Center Table (900x450x450) Supplying & placing center table with an overall size 900mm X 450mm X 450mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The	Nos	2
27	Almirah 1740x750x2900 It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.	Nos	2
Second Floor - Conference Room			
28	Table - 5500x1500x750 Supplying & placing table with an overall size 5500mm X 1500 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.	Nos	1

29	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	15
Second Floor - Workstation			
30	<p>Table - 1200x685x750 Supplying & placing table with an overall size 1200mm X 685 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.</p>	Nos	6
31	<p>Pedestal - 165x750x750</p>	Nos	6
32	<p>Almirah 1740x750x2900 It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.</p>	Nos	1
33	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	6
Second Floor - Accounts Officer's Cabin			
34	<p>Table - (2315x1335x750) Supplying & placing table with an overall size 2315mm X 1335 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.</p>	Nos	1
35	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	4
36	<p>Almirah 1740x750x2900 It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.</p>	Nos	1
Second Floor - PA Room			
37	<p>Table - 1500x750x750 Supplying & placing table with an overall size 1500mm X 750 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.</p>	Nos	1

38	<p>Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame padded with high resilience polyurethane foam (30+19)mm thick having density (60+40) kg/m³ in seat 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The armrest shall be used polyurethane arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) from seat & overall height = 870±10 mm.</p>	Nos	3
Entertainment/Recreation Room			
39	<p>Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.</p>	Nos	4
40	<p>Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.</p>	Nos	1
41	<p>Table - 1200x685x750 Supplying & placing table with an overall size 1200mm X 685 mm X 750mm. The top of the table shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall</p>	Nos	1
42	<p>Pool Table (2360x1370 MM) Cushions - The cushions are also regarded as rail cushions, cushion rubber and sometimes as bumpers. The cushions are placed on the inner side of the table lining. Primarily the cushions are made from synthetic or natural rubber vulcanized to provide a better bounce. The cushion decreases the kinetic energy of the ball as they strike on their surface. The cushion base is 30 mm in length, where the height of the nose is 25 mm. Bed - The bed is the horizontal surface of the table, which is covered by a cloth. The high-quality equipment made of solid and smooth slabs of slate is usually manufactured in Italy, Brazil and China. In an ideal billiards table, three tournament sized beds are used. The beds are manufactured using wood, especially fiberboard and medium-density plywood, as well as plastics and other synthetic materials under various brand names. The gaps are filled with putty or resin. The table is then sanded to get a smooth surface and then covered by a cloth. Cloth - The billiard cloth is also referred to as the felt, used to cover the table's surface. The cloth covers both rails and the slate perfectly. The billiard cloth is usually green in color and made up of baize. The cloth's quality is important as it affects the ball's friction and pace while struck by the stick. Pockets - the pockets exist in the table's border placed in the six different positions at equal distance. The players put the ball in the pockets with the help of the billiards cue to score points. Usually, the pockets were covered by a net in the bottom to holds the ball. The modern or the hi-tech billiards table consists of a ball rotating section in the pocket that transfers the ball to the rack. This rack gets rearranged on the table again after the game. Markings - All the markings, including visible and invisible, are drawn on the cloth. They are marked across the width of the table. The baulk line marks the baulk area on the table. This area is located at 29 inches from the bottom cushion's face and parallels to side cushion. The semicircle or the "D" is marked in the middle of the baulk line with a 11 1/2 inch radius.</p>	Nos	2
43	<p>Coffee Machine/Water Cooler Table Supplying & placing table with an overall size 600mm X 600mm X 450mm. The top of the table shall be made up of 12mm thick toughened glass. The top profile shall be in square shape with round corner and the edges shall be in chamfer shape. The top shall be supported on MS chrome plated oval frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section area 52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.</p>	Nos	1

Detailed Estimate					
REGIONAL OFFICE BUILDING AT UMSAWLI, EASTKHASHI HILLS DISTRICT SHILLONG,MEGHALAYA					
HIGH SIDE BOQ					
		MARKET RATE			
S.No	Description	Unit	Qty.	Rate	Amount
1	HT CABLE & POLE				
	Supply and laying of 3 core standered aluminium conductor XLPE (Cross linked polyethylene) insulated PVC bedded, Galvanised flat steel strip armoured cables conforming to I.S. 7098 (Part-II with latest amendments) II KV grade with cable jointing kit and accessories as per requirement.				0
	185 sq. mm 3 core	Meter	2700	3000	8100000
	PSC Electric Pole, Length : 8 m	Each	50	2500	125000
2	TRANSFORMER				0
	11 KV PACKAGED SUBSTATION				
	11KV / 433V PACKAGED SUBSTATION: HT SIDE: 1 WAY RADIAL TRANSFORMER: OIL TYPE (WITH OLTC) LT SIDE: 4P ACB / MCCB				0
	Outdoor type Package Substation with facility for internal lighting, earthing, padlocks etc. Connection between Radial & Transformer will be by 3 nos. 1C x 95 Sqmm. Aluminium conductor XLPE cable and connections from Transformer to LT ACB / MCCB will be by aluminium bus bar connections. Cable termination kits for Radial shall be in the scope of supply (within the enclosure).				0
	200KVA 11/433V	Each	1	1800000	1800000
3	D.G. SET				0
	Supply , Installation, Testing & Commissioning of 03 phase volts 50 cycle per second 1500 RPM air cooled, deisel generating set complete with silent type DG canopy & limiting sound level to 75 dB (A) over a distance of one meter with engine, alternator air cooled. The engine shall be complete with flywheel to suit flexible coupling with guard, air cleaner, fuel pump, fuel day tank, variable speed governor, fuel filter, lube oil filter, battery charging generator, voltage regulator, 24 volt charged voltage regulator, capacity and instrument panel comparing switch with key, space heater, lube oil temperature gauge, lube oil pressure gauge, water temperature gauge, battery charging ammeter, safety control for low lube oil pressure and high temperature tripping. The canopy temperature shall not exceed 7 degree above the alternator shall be brushless type excited and self regulated continuously rated as follows, 3 phase 415 volts 50cycles, 4 wire system and shall be provided with static excitation unit, alternator insulation shall be class "H" or better to withstand tropical conditions and shall generally comply with relevant IS and present by-laws under average conditions the voltage regulation shall be within $\pm 1.5\%$. The overload capacity shall not be less than 110% for one hour in every 12 hours. The set shall be mounted on a common bed plate with antivibration mounting and alternator shall be suitable for LT AL XLPE cables connection and alternator shall be suitably modified and similarly provision shall be made in the canopy to take out AL XLPE cables				0
	160 KVA	Each	1	1075000	1075000
					0
	Total A				11100000