	SUMMARY (
S.N.	Description	Amount as p Estimate (Val		Remarks				
5.N.	Description	DSR-2021	Market Rate	Remarks				
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	SS (S/S) CC FRAMED STRUCTURE AREA = 9.42 0.26							
5	PUMP HOUSE (S/S) RCC FRAMED STRUCTURE AREA = 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					

SUMMARY OF COST

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

S.No.	PARTICULARS OF ITEMS	Amount As pe	r Detailed BOQ
3.NU.	FARTICULARS OF TIEMS	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
	ADD INTERIOR WORKS AND GATE & TOILET &		
2	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		
3	Civil Work	22 02 274 01	
	Plumbing Work	22,92,274.01 1,84,209.67	
	Electrical Work	1,11,056.76	71 077 49
	Total	2587540.438	71,077.48 71077.48
		2007040.400	11011.40
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	

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

SUMMARY OF COST (CIVIL WORK)

. 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 C	F PROPOSED REGIONAL OFFICE BUILDING	G AT UMSAWLI, EAST KHASI HILLS DIST	RICT, SHILLONG.
SUMMARY C	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	

					Unit Rate		Amount	
.No. I	OSR 2022 Ref Non-SOF	R Description	Unit	Quantity	(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	
1.2					+ +			
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						
1.3.1	1.55.1	etc. as required. Group A	Each	18	649.00		11 682.00	
1.3.1	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	
1.5.5	1.55.5		Lucii	150	030.00		1 33 8 10.00	
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	

						Unit Rate		Amount	
S. No.	DSR 2022 Ref	Non-SOR	Description	Unit	Quantity	(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 ooutlet	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						
Ŭ	1.27		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	

						Unit Rate		Amount	
No.	DSR 2022 Ref	Non-SOR	Description	Unit	Quantity	(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		Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape						
	Civil 10.17		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	1.53.1		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
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
10.1					-				000
			PANEL, MCB DBs, MCBs & ACCESSORIES						

						Unit Rate		Amount	
. No. D	DSR 2022 Ref	Non-SOR	Description	Unit	Quantity	(DSR)	(NSR)	(DSR)	(NSR)
17		NS	MAIN PDB						
17.1		NS	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, 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		2 03 249.00		2 03 249.
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 А, 50КА, FP МССВ	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						

				Unit Rate		Amount	
OSR 2022 Ref Non-SOR	Description	Unit	Quantity	(DSR)	(NSR)	(DSR)	(NSR)
	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.						
		Fach	1		96 482 00		
2.2	Providing and fixing following rating and breaking capacity and pole MCCB with	Luch	-		50 102.00		
2 2 13		Fach	4	7 723.00		30,892,00	
-							
2.13.2		Each	6	1 034.00		6 204.00	
	MCCB, DISTRIBUTION BOARDS, MCB's, RCCB's, CHANGE OVER etc.						
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)						
2.4.1	4 way (4 + 12), Double door (HVAC Indoor Unit Floor DBs)	Each	3	4 091.00		12 273.00	
2.4.2	6 way (4 + 18), Double door (Floor Secondary LDBs)	Each	6	4 974.00		29 844.00	
2.4.3	8 way (4 + 24), Double door (Floor Secondary PDBs)	Each	6	5 967.00		35 802.00	
	2.2 2.2.13 2.2.16 2.13 2.13.2 2.4 2.4.1	2.2 Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle 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 warked 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. 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. 2.1.3 100 A, 30KA, FP MCCB 2.1.4 MCCB, DISTRIBUTION BOARDS, MCB's, RCCB's, CHANGE OVER etc. 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 time do copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including eartibus dor (HVAC Indoor Unit Floor DBs)	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 switchs, frequency and front and back side openable doors for each switch / BBC etc. each door should be wermin / dust proof the panel shall be nicely painted after powder coated superior quality paint after degrasing & 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. 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. 2.1.3 100 A, 30KA, FP MCCB Each 2.1.3 B somplete with connections, testing and commissioning etc. as required. Each 2.1.3 B somplete with connections, testing and commissioning etc. as required. Each 2.1.3 DB complete with connecti	2.2 Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel should be and terminal spreaders in existing cubicle panel should be adving rating following rating, four pole, 415 V, isolator in the existing MCB 2.2.13 Do A, 30KA, FP MCCB 2.13.2 63 A 2.4.1 4 way (4 + 12), Double door (HVAC Indoor Unit Floor DBs) 2.4.1 4 way (4 + 12), Double door (HVAC Indoor Unit Floor DBs)	DSR 2022 Ret Non-SOR Description Unit Quantity (DSR) 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 Metry. 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 degreasing & 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 therconnections separately mentioned undermeath. The Panel should be manufactured by CPRI certified manufacturer only. Each 1 2.2 Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel baord including drilling holes in cubicle panel, making connections, etc. as required. 2.2.13 100 A, 30KA, FP MCCB Each 1 17 510.00 2.1.3 Stopplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 1 17 35.0.0	DSR 2022 Ref Non-SOR Description Unit Quantity (DSR) (NSR) 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 degreasing & 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 aluminum 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 Lune Diagram. The Panel should be manufactured by CPRI certified manufacturer only. Each 1 96 482.00 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. Each 1 96 482.00 2.2.13 100 A, 30KA, FP MCCB Each 4 7 723.00 2.1.32 63 A Each <td>DSR 2022 Rel Non-SOR Desciption Unit Quantity (DSR) (NSR) (DSR) Beign, Supply, Erection, Testing and Commissioning of HVAC PARE Lindor 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 compartmentialized for incomers, bus section, outgoings, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency and front and back side openable doors for each switch / BC etc. each door should be vermin // dust proof the panel shall be nicely painted after powder coated superior quality paint after degrerasing & phosphate treatment. The panel should be marked with incoming and outgoing feeders. The panel is to be installed at site by marking 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 (duy tape) with solid copper / providing and fixing aluminium bus bars and for housing the following MCCBs, MCBs provided and fixed with interconnections separately methicule opper / provided and fixed upith manufactured by CPRI certified manufacture only. Each 1 96 482.00 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. Each 1 96 482.00 2.13 100 A, 30KA, FP MCCB Each 1 17 510.00 17 510.00 2.13 53 A Each 6 1034.00 6 204.00 2.13.2 53 A Each 6 1034</td>	DSR 2022 Rel Non-SOR Desciption Unit Quantity (DSR) (NSR) (DSR) Beign, Supply, Erection, Testing and Commissioning of HVAC PARE Lindor 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 compartmentialized for incomers, bus section, outgoings, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency and front and back side openable doors for each switch / BC etc. each door should be vermin // dust proof the panel shall be nicely painted after powder coated superior quality paint after degrerasing & phosphate treatment. The panel should be marked with incoming and outgoing feeders. The panel is to be installed at site by marking 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 (duy tape) with solid copper / providing and fixing aluminium bus bars and for housing the following MCCBs, MCBs provided and fixed with interconnections separately methicule opper / provided and fixed upith manufactured by CPRI certified manufacture only. Each 1 96 482.00 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. Each 1 96 482.00 2.13 100 A, 30KA, FP MCCB Each 1 17 510.00 17 510.00 2.13 53 A Each 6 1034.00 6 204.00 2.13.2 53 A Each 6 1034

					Unit Rate	A	mount	
. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	(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.	E h	2	1 000 00			
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 1 340.00			
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						

					Unit Rate	A	mount	
. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	(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 72 832.0
27	NS	LED DOWN LIGHTER Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each						
27		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		112		124.00		45 000 0
27.1		9 Watt, color temp 3000-6500k as required.	Each	112		134.00		15 008.0
		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		2 464.0
28.2		1 X 20Watt Integral i/c batten aluminium body, PC diffuser.	Each	36		167.00		6 012.0
20		LED BULK HEAD LIGHT						
29	NS	Supplying approved make LED bulkhead ABS body, PC diffuser including fixing on						
20.4		wall as required, with necessary material complete	Each	4		258.00		1 032.0
29.1		10 Watt, IP 55	Eacil	4		258.00		1 032.0
		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.						

						Unit Rate	A	mount	
. No. E	DSR 2022 Ref I	Non-SOR	Description	Unit	Quantity	(DSR)	(NSR)	(DSR)	(NSR)
30.1			48" (1200mm)	Each	46		2 300.00		1 05 800.0
			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		14 990.0
			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		33 000.0
			Armoured 4 core Cu. Conductor						
32.2			4 sq. mm Cu. Conductor	Metre	50		123.00		6 150.0
			3½ core armoured Al. Conductor						
32.3			25 sq. mm. Al. Conductor	Metre	230		185.00		42 550.0
32.4			35 sq. mm. Al. Conductor	Metre	60		239.00		14 340.0
32.5			50 sq. mm. Al. Conductor	Metre	120		291.00		34 920.0
32.6			300 sq. mm. Al. Conductor	Metre	80		1 369.00		1 09 520.0
33			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	
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	
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.						

					Unit Rate		Amount	
S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	(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.		100	1.000.00			
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	
							ļ	
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	

					Unit Rate		Amount	
S. No.	DSR 2022 Ref Non-SO	R Description	Unit	Quantity	(DSR)	(NSR)	(DSR)	(NSR)
42	6.4	Jointing 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.		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	N	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		3		34 963.00		1 04 889.00
		5 MP IP IR fixed lens dome camera						
48	N			6		16 805.00		1 00 830.00

					Unit Rate	Amount		
S. No.	DSR 2022 Ref Non-SOR	Description	Unit	Quantity	(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 Josystick complete as required and to the full satisfaction of the Engineer-				2 20 245 00		2 20 245 00
		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 Q			MATE (Fire Fig	hting System RO Building) VODAYA VIDYALAYA SAMITI						
Project Nar	NE :- PROPOSED NE	W RO BUI	LDING FOR NA			Г — Т	Unit Rate		Amount	
S. No.	DSR 2022 Ref.		Non-SOR	Description	Unit	Quantity	(DSR)	(NSR)	(DSR)	(NSR)
				SUB-MAINS, POINT WIRING ACCESSORIES & MISCELLANEOUS						
1	DSR 2022 1	8.1		(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.	6.1		2 24 072 00		2 24 072 00	
1.1	18.1.8			1620 lpm at 70 m Head Note:* The head of the pump is selected in a manner so as	Set	1	3 31 972.00		3 31 972.00	
				to give a minimum 3.5kgf / cm^2 pressure at the highest /						
				farthest point.						
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	Set	1	5 92 194.00		5 92 194.00	
				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.						
3	DSR 2022	18.3		(A) Supplying, installation, testing and commissioning of						
5	DON LOLL	10.5		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						
3.1		18.3.2		and with anti-vibration hads 180 lpm at 70 m Head	Set	1	1 03 304.00		1 03 304.00	
						-	_ 00 004.00		100 004.00	
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,						
				horiziontal 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.						
4.1		18.4.2		(E) Suitable coment concrete foundation duly plastered and 450 lpm at 35 m Head	Set	1	86 203.00		86 203.00	
				CONTROL PANELS	I	I				

5 DSR 3022 18.5 If abrication, supply, insulation testing & commissioning of Electrical conformation of could construction, floor mounted type, fishicated out of 2mm thick CRL sheet, werein provided could could counter that the counter of the counter					<u> </u>		1		
18.5.1 Inclusive type, faircited out of Zimm thick CEC, steet, compartmentialed with hungel locable doors, stat and vermin proof, power costed of approved shade after 7 task tratterementialed with hungel locable doors, statue and the inclusion of th	5	DSR 2022	18.5				1		
18.5.1 compartmentialised with hinged lockable doon, dust and with process, date alley, interconnection with suitable due coper conductor calibial, comporting to a spectra due to a							1		
315.1 writin proof, power coated of approved hade after 7 tank tratimeter process, cobe alloy interconnection with subable size topper conductor cable/solid copper strp, having writings and accessories. Interconnection with subable is eraptice of the second strain for pump, escondistion with subable pump set complete is all respect. suitable for anal for pump, escondistion with subable pump set complete is per CPV0 secondistion with subable pump set complete is per CPV0 secondistic is per CPV0 secondis per CPV0 secondistic is per CPV0 secondistic is per									
Iterative Transformed accessories, galaxies and interval wring, each iterative mring, each iterative							1		
ister copper conductor cable/addi copper strip, having switchings and accessorie, mountings and internal wing, meansuristical pump & diesel pump iste complete in all respect, suitable for prainting mump & diesel pump iste complete as per CVM0 specification with following in comma and Duty intervestication pump & diesel pump iste complete as per CVM0 specification with following in comma and Duty intervestication pump & diesel pump iste complete as per CVM0 specification with following in comma spectra as per CVM0 specification with following in comma spectra as per CVM0 specification with following in comma spectra as per CVM0 specification with following in comma spectra as per CVM0 specification with following in comma spectra as per CVM0 specification with following in comma spectra as per CVM0 specification with spectra switch as per CVM0 specification in a specific as per CVM0 specification in a specification in a specific as per CVM0 specification in a sp									
wetchgens and accessories, mountings and internal winning, earth therminals, numering etc. complete a per (OW) septification with following in coming and Outpings, suitable for operation on 415V, 3 phase, 504 AK. Supply with following in coming and Outpings, suitable for operation on 45V, 3 phase, 504 AK. Supply with height a suitable for operation on 45V, 3 phase, 500 Uniternal of OSOV with height and the operation of 45V, 3 phase, 500 Uniternal of OSOV with height and the operation of 45V, 3 phase, 500 Uniternal of OSOV with height and the operation of 45V, 3 phase, 500 Uniternal of OSOV with height and the operation of 45V, 4 Digital Ammetric 7050 Vith height and the operation of the operation of the operation of OSOV with height and the operation of the operation of OSOV with height and the operation of the operation of OSOV with height and the operation of the operation of OSOV with height and the operation of the operation of OSOV with height and the operation of the operation of the operation of the operation of the operation of the operation of the operation of the operation of the operation. DESET ENGNE CONTOR DESET ENGNE C									
each terminals, numbering etc. complete in all respect. suitable for main free pump & diesel pump set complete as per CWU0 specification with following in coming and Outprings. Subtle for operation on 45X, 3 phase, 50t A 5 upply with endoare protection class IP 42 as required: INCOMING 2506, 504 A Fole MCCB, (c=100% for rating Digital Volmeter 0-500 with selector switch & CT set: LLD type TWB phase indicating lamps, ON, OFF, tip indicating lamps. Set of Copper Bud Bar 300A OUTGONG (Note : All outgoing feeders for pumps should have digital Armeter with selector switch, and LED type ON, OFF, tip indicating lamps) MAIN FIRE PUMP L25 A, 50A TPM MCCB, (c=100% ku, with fully automatic Star/Octat starter suitable for 60 HP pump with overload protection, current semigit type single pass prevent complete with all accessories and internal wing required protection, current semigit type single pass prevent complete with all accessories and internal wing required protection, current semigit type single pass prevent complete with all accessories and internal wing required protection, current semigit type single pass prevent complete with all accessories and internal wing required protection, current semigit type single pass prevents protection, current semigit as a required, push buttons, start/stopi manual/OF operation. DIESELENGINE CONTROL Control for lags lampi set or Differential wing required patter starts, add relays as required, push buttons, start/stopi manual/OF operation. DIESELENGINE CONTROL Battery charger suitable for 120/24 DC with boost and trucks even pring. SO DC 400 meter, and 80 A DC All attender relays and accessories for automatic operation of dised even prince. DEGEND CONTOLLER Designing, Sopply, instalation, Testing and commissioning of system controller to control operation of main electric file Designing, Sopply, manual/dom window for full ridication, complete DEGEND CONTOLLER Designing, Supply, manual/Supply and accessories for automatic operation									
suitable for main fire pump, presurvisation pump & diesel pump set complete and per CMVB specification with following in coming and Outgoings, suitable for operation on 4159, 3 plase, 50 Fek AS supply with endoars protection class IP 42 as required: 2503, 5014, 40 belo MCB, Ics=100% Icu rating Digital Jointeer to 5000 with selector switch Digital Ammeter (D230 A) with selector switch Digital Ammeter (D230 A) with selector switch Digital Ammeter (D230 A) with selector switch Cut ED type RYB phase indicating lamps. ON, OFF, trip indicating lamps Set of Coper Bus Bar 300A UITGOING (Note: - All outgoing feeders for pumps should have digital Ammeter with selector switch (LC type ON, OFF, trip indicating lamps) Set of Coper Bus Bar 300A UITGOING (Note: - All outgoing feeders for pumps should have digital Ammeter with selector switch (LC type ON, OFF, trip indicating lamps) DISTA States attract suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wring required for automatic operation, selector switch for local/remote, auto/manual/OFF operations. DISCEY PUMP DESEL ENGINE CONTIOL Control for diele eligine comprising: Automating/Manual selector switch for local/remote, auto/manual/OFF operation. Battery charges suitable for 30 HP pump. Battery charges suitable for automatic operation of diset engine SYSTEM CONTROLLER Designing. Supply, installation, Testing and commissioning of system control per specification compilete									
pump set complete as per CPVD specification with following in coming and Outgoings, subte for operation on 4159, 3 phase, SPR Ac Supply with endoure protection class IP 42, as required; 18.5.1 HCOMMIC ESA, SOLA 4 Pole MCG, Ics-100% Icu rating Digital Voltmeter 0:500 with selector switch & Cr. etc. EED type NP phase indicating lamps, ON, OFF, trip indicating lamps; ON, OFF, trip indicating lamps; OUTGOING (Note : All outgoing feeders for pumps shuld have digital Ammeter (P2:50 A) with selector switch & Cr. etc. EED type NP, Phase indicating lamps; 125.4, SOLA TPN MCG, Ics-100% Icu, with fully automatic Star/Delta start suitable for 50 PM pump with overfaad protection, current selector switch & Cr. etc. EED type NP, Phase indicating lamps; 125.4, SOLA TPN MCG, Ics-100% Icu, with fully automatic Star/Delta start suitable for 50 PM pump with overfaad protection, current selector switch for loca/iremote, autoffmanaul/OFF operation. EED type NP, DES technome comprising - Automatic Star/Delta starts suitable for 50 PM pump with overfaad protection, current selector switch for loca/iremote, autoffmanaul/OFF operation. DESEL ENGINE CONTICOL DESEL Engine comprising - Automatic Starting device, timers and relays as required, push button, start/stop in manual mode indicating lamps of the dicating set of the dicating lamp of the parts and accessories for automatic operation of disestor switch as a stempt starting device, timers and relays as required, push button, start/stop in manual mode indication Battery shares sustarting on disestor switch and battery shares sustacle or apinon disestore switch and baccessories for automatic oper									
18.5.1 in coming and Outgoings, suitable for operation on 43.9, 3 phase, 50 kH x Supply with endour protection class IP 42 as required: 18.5.1 HECMMIG ZSGA, 501A 4 Poly MCG, Ics-100% Icu rating Digital Anneter (P250 A) with selector switch Digital Anneter (P250 A) with selector switch & CT etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Coper Bus Bar 300A 0UTGOING (Note : All outgoing feeders for pumps should have digital Anneter with selector switches, and LED type ON, OFF, trip indicating lamps 125 A, SOA TP MCCB, Ics-100% Icu, with fully automatic Star/OFCH at attrar statistic of S0 HP pump with overload protection, current sensing type single phase preventor complete with all accessions and internal withing required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. JOCKEY PUMP DESEL FORME CONTIOL Control for diele engine comprising: Automatic/Manual 3elfor por station, selector switch for local/remote, auto/manual/OFF operation. Star/OFC for the regulation of the JD out Double. Dispase preventor complete with all accessing and internal with required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. Star/ADD out Double. Dispase preventor complete with all accessing and internal with required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. Star/ADD out Double. Dispase preventor complete with all accessing and transplay. BESEL FORME CONTOL BESEL FORME CONTOL BESEL FORME CONTOLER BESEL FORME CONTOLER BESE									
phase. 50% AS Supply with endosure protection class IP 42 as required: 135.1. 135.1. 135.1. 135.1. 135.1. 10COMING 12jotal Voltmeter 0.500 with selector awith Digital voltmeter 0.500 with selector awith Set of Copper Bus Bar 300A OUTGOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type 0.00, 0FF, trip indicating lamps) MAIN FIRE PUMP 125 A, 50KA PTW MCCB, Iso-100% Icu, with fully automatic Star/Delta starter subles for 60 HP pump with overload protection, selector switch for local/remote, auto/Programa/DPF operation getwice, timers and relays as required, pash buttors, start/stap in manual mode Indicating lamps for Dipress, tarting device, timers and relays as required. push buttors, start/stap in manual mode Indicating lamp for high/ Low Uub. Di pressure, High Water Temp and Engine on indication Distater y charger subtile for 121/24 V DC with boost and tricke selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of devide engine SYSTEM CONTROLLER Designing. Supply, installation, Texting and commissioning of system controller to control loperation of main electric file pump, Seeping, Supply, installation, Texting and commissioning of system controller to control loperation of main electric file pump. Gets pump. Texter pump in sequence as per specification. consisting of relays, times: Sensors, annunciation windw of fail at indication, compilie					-				
38.5.1 NCCNING 230, Stok 4 Pole MCCB, Ics:100% Icu rating Digital Voltmeter (0.250 A) with selector switch Digital Ammeter (0.250 A) with selector switch & CT set. LED type RVB phase indicating lamps. ON, OFF, trip indicating lamps Set of Copper Bus Bar 300A OUTGOINS (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type DN, OFF, trip indicating lamps) 212 A, Stok TVP MCCB, Ics:100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sing type single phase preventor compilete with all accessories and internal wring required for automatic operation. DICSEL Engine Compilete Starter Starting device, timers and relety as a tegrity pump with overload protection, current selector switch for local/remote, auto/manual/OFF operation. DICSEL Engine Compilete indicating lamps for high/ Low Uub. Dil pressure, High Water Temp and Engine on indication Battery charger suitable for 127/24 V DC with boost and trickle selector switch, 0-30 V DC vot meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diselenging. SYSTEM CONTROLLE Designing, Supply, Installation, Testing and commissioning of system controller to control logeration of main electric fifte pump, disely pump, Irrare pump in sequence as per specification. consisting of relays, times.									
135.1 INCOMING 236.0, SDA 4 Pole MCCB, ICS-100% ICU rating Digital Voltmeter 0.500 with selector awith Digital Voltmeter 0.500 with selector 0.500 with selector awith Digital Voltmeter 0.500 with selector 0.500 with selector 0.500 with selector awith Digital Voltmeter 0.500 with selector 0.500 with selector 0.500 with selector awith Digital Voltmeter 0.500 with selector 0					-				
250A SDA A Pole MCCB, US-2005 KLU rating Digital Voltmeter (-0.250 A) with selector switch & CT S etc. LED Uype RYB phase indicating lamps, ON, OFF, trip indicating lamps; Set of Copper Bus Bar 300A OUTGOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) 2125 A, 50A TFM MCCB, US-20005 Ku, with fully automatic Star/Deta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal winfing required for automatic operation. Selector switch for local/remote, auto/manual/OFF operation. DICKEY PUMP DESEL ENGINE CONTROL Control for diseel engine comprising - Automatic/Manual selector switch for local/remote, auto/manual/OFF operation. Battery charges suitable for 12/0/4 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 20 A DC Ammeter All standar relays an accessories for automatic operation Battery charges suitable for 32/0/4 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 20 A DC Ammeter All standar felays and accessories for automatic operation of diseel engine controller to control to pressure, High Water Temp and Engine on indication Battery charges suitable for 32/0/4 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 20 A DC Ammeter All standar felays and accessories for automatic operation of diseel engine SYSTEM CONTROLLER Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fre pump, disel pump, Presurization pump, Terrace pump in sequence as per specification consisting of relays, times. Sensors, annunciation indication, complete			1951						
Digital Voltmeter 0-500 with selector switch Digital Ammeter (250 A) with selector switch & CT etc. LED type RVB phase indicating lamps, DN, OFF, trp indicating lamps. Set of Copper Bus Bar 300A OUTGOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trp indicating lamps) Indicating lamps) 125 A, S0A TPN MCCB, ISS-100% Kou with fully automatic Star/Delta starter sublek for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal writing required for automatic operation. Selector switch & 3 attempts starting device, times and relays as required, push buttors, start/stop in manual mode indicating lamp in indication. Battery charger sublet for 50 LPD pump with buttors, start/stop in manual mode indicating lamp for indip/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suble for a 202 A DC Ammeter All standar relays as required. All standar relays as required. SYSTEM CONTROLLER Designing. Supply, Installation, Testing and commissioning of system controller to control operation of maine electric fire pump, deel pump, Pressritation pump. Terrace pump in sequence as per specification consisting of relays, times. Sensors, annunciation window for faults indication, complete			10.5.1						
Digital Ammeter (0-250 A) with selector switch & CTs etc. LiD Type NPS phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 300A OUTGOINE (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type DN, OFF, trip indicating lamps) MAIN FIRE PUMP 125 A, 50KA TPN MCCB, Los-100% LCu, with fully automatic 51xr/Polta starts atable for 60 Pp ump with overload protection, current sensing type single phase preventor complex with all accessories and internal wing required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DIESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual sector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode indicating lamp for high/ Low Lub. Dil pressure, High Water Temp and Engine on indication Battery charger suitable for 60 to 20 A DC Ammeter Alt standar drelays and accessories for automatic operation of diesel engine SYSTEM CONTROLER Designing, Supply, Installation, Testing and commissioning of system controlier to control operation of main electic filte pump, diesel pump, Installation, complete									
LED type IVB phase indicating lamps. ON, OFF, trip indicating lamps Set of Copper Bus Bar 300A OUTCOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN FIRE PUMP 125 A. 506A TPN MCCB, Ios:300% (xu, with fully automatic Star/Poleta satters valiable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wrining required for automatic operation, selector switch for local/emote, auto/manual/OFF operation. DESELENGINE CONTROL Control for diseal engine comprising - Automati/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttors, start/stop in manual mode Indicating lamp of high/ Low Lub. Oil pressure, High Water Temp and Engine on Indication Battery charger subtable for 12/2/24 V DC with boost and trickle selector switch, 93 0V DC volt meter, and 02 0A DC Ammeter All standard relays and accessories for automatic operation of diseal engine. Designing, Supply, Installation, Testing and commissioning of system controller to control operation of neight, Istallation, Testing and commissioning of system controller to control operation of neight, Istallation, complete				-					
Set of Copper Bus Bar 300A UTGOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN FIRE PUMP 125 A, 50kA TWN ECK, Ics=100% kcu, with fully automatic Star/Delta StarM ECK, Ics=100% kcu, with fully automatic star/Delta StarM ECK, Ics=100% kcu, with fully automatic oraplete with all accessories and internal witing required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DICKEY PUMP DIESEL ENGINE CONTROL Control for disele engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop inmaul mode Indicating lamp for high/Low Lub. Oil pressure, High Water Temp and Engine on Indication Battery charger suitable for 122/24 V D with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standar relays and accessories for automatic operation of diesel engine costrol for automatic operation of diesel engine costrol operation of main electric fire pump, diesel pump, fress/utaliton, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, fress/utaliton, complete							1		
Set of Copper Bus Bar 300A UTCOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN FIRE PUMP 125 A, 50KA TPM MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wring required for automatic Operation, selector switch for local/remote, auto/manual/OFF operation. DESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, starty/top in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 120/24 V D cwith boost and trickle selector switch, 0:30 V D C with meter, and 0:20 A DC Ammeter All standart relays and accessories for automatic operation of disele engine Designing. Supply, installation, Testing and commissioning of system controlle to control operation main electric fire pump, disele pump, fressure, pump in sequence as per specification consisting of relay, times; Sensors, annuclation windw of relay time;							1		
OUTCOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN FIRE PUMP 125 A, SOKA TPN MCCB, Ics=100% icu, with fully automatic Star/Deits astratic suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DIESEL ENGINE CONTROL Control for disele engine comprising - Automatic/Manual seletor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high? Low Lub. Oil pressure, High Water Temp and Engine on Indication Battery charger suitable for 12V/24 V DC with boost and dickle selector switch, 30 - Vol Interer, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of desel engine SYSTEM CONTROLER Designing, Supply, Installation, Testing and commissioning of system controlle to control operation of main eledictic fin							1		
Image: All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN Fire PUMP 125 A, 50KA TPN MCCB, Ics=100% Icu, with fully automatic Star/Polta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, aut/manual/OFF operation. Image: Distribution of the protein of the p							1		
Image: All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN Fire PUMP 125 A, 50KA TPN MCCB, Ics=100% Icu, with fully automatic Star/Polta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, aut/manual/OFF operation. Image: Distribution of the protein of the p									
Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) MAIN FIRE PUMP 125 A, SOKA TPN MCCB, ics=100% icu, with fully automatic Star/Delta starter suitable for 50 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DCKEY PUMP DIESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 122/24 V DC with boost and trickle selector switch. 00 VD volu theter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLER Designing, Supply, Installation, Testing and commissioning of system control operation pump, Terace pump in sequence as per specification consisting of relays, times. Sensors, anunciation window for fault indication, complete				OUTGOING					
Indicating lamps) MAIN FRE P UMP 125 A, 50KA TPN MCCB, ics=100% icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DIESEL ENGINE CONTROL Control for diesel engine comprising : Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of disesl engine SYSTEM CONTROLLER Designing. Supply, Installation, Testing and commission of system control loperation of main electric fre pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensor, anunciation mutowor for fault indicatiners, complete				(Note : All outgoing feeders for pumps should have digitation	1				
MAIN FIRE PUMP 125 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Obelta starter suitable for 50 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DIESEL ENGINE CONTROL Control for diesel engine comprising- Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual momde Indicating lamp for high/ Low Lub. Oil pressure, High Water Term and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLER Designing, Supply, Installation, Testing and commissioning of system control let cortorlol operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, times.				Ammeter with selector switches, and LED type ON, OFF, tr	5				
125 A, S0KA TPN MCCB, Ics-100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terase pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete				indicating lamps)					
125 A, S0KA TPN MCCB, Ics-100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terase pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete									
125 A, S0KA TPN MCCB, Ics-100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terase pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete									
Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor compilee with all accessories and internal wring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DICKEY PUMP DIESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickke selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLER Designing, Supply, Installation, Testing and commissioning of system.controller to control operation of main electric fire pump, diesel pump, Pressurization pump, I rearce pump in sequence as per specification consisting of relays, timers.				MAIN FIRE PUMP					
protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. DESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V D C with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER Designing. Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers.									
complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. JOCKEY PUMP DIESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLLER Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Irerace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete									
for automatic operation, selector switch for local/remote, auto/manual/OFF operation. JOCKEY PUMP DIESEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All Istandard relays and accessories for automatic operation of diesel engine SYSTEM CONTROLER Designing. Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete									
JOCKEY PUMP DISEL ENGINE CONTROL Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high / Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 120/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diseel engine SYSTEM CONTROLLER Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete									
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13DSR 202218.12Supplying, 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:set110696.0010.696.0013.118.12.480 mm diaSet110696.0014428.0013.318.12.5100 mm diaSet114428.0014428.0013.418.12.7200 mm diaSet622550.00135 300.0013.418.12.7200 mm diaSet239 133.0078 266.0014DSR 202218.14Providing, installation, testing and commissioning of non- return valve of following sizes confirming to IS:5312 complete with rubber gasket, Gl bolts, nuts, washers etc. as required:17539.0014.118.14.480 mm diaSet17539.007539.0014.218.14.7150 mm diaSet17539.007539.0015DSR 2022 18.13Supplying and fixing orifice plate made out of 6 mm thick statiless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce preserve at the outlet to theII	12.3	18.15.4	200mm dia	Each	2	22 265.00		44 530.00	
13DSR 202218.12Supplying, 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:set110696.0010.696.0013.118.12.480 mm diaSet110696.0014428.0013.318.12.5100 mm diaSet114428.0014428.0013.418.12.7200 mm diaSet622550.00135 300.0013.418.12.7200 mm diaSet239 133.0078 266.0014DSR 202218.14Providing, installation, testing and commissioning of non- return valve of following sizes confirming to IS:5312 complete with rubber gasket, Gl bolts, nuts, washers etc. as required:17539.0014.118.14.480 mm diaSet17539.007539.0014.218.14.7150 mm diaSet17539.007539.0015DSR 2022 18.13Supplying and fixing orifice plate made out of 6 mm thick statiless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce preserve at the outlet to theII			C.I. SLUICE VALVES / FIRE HYDRANTS & FIXTURES						
bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required:Image: complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required:Image: complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes set 1Image: complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes set 1Image: complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes Set 1Image: complete with nuts, bolts, muts, bolts, set 2Image: complete with nuts, bolts, muts, bolts, set 3Image: complete with nuts, bolts, muts, bolts, muts, bolts, muts, bolts, muts, bolts, muts, bolts, nuts, washers etc. as required:Image: complete with nuts, bolts, muts, washers, gasket, Gi bolts, nuts, washers etc. as required:Image: complete with nuts, bolts, muts, washers, gasket, Gi bolts, nuts, washers etc. as required:Image: complete with nuts, bolts, muts, washers, gasket, Gi bolts, nuts, washers etc. as required:Image: complete with nuts, washers, gasket, Gi bolts, nuts, washers, Gi as muts, bolts, nuts	13	DSR 2022 18.12	Supplying, fixing, testing & commissioning of double flange						
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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				Set					
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	15	DEP 2022 40 42	Cumplying and fining selfing alots used out of Council						
fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the	15	DSK 2022 18.13							
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			internal hydrants to reduce pressure at the outlet to the	2					
			level of 3.5 kg/cm ² complete as required.	Each	3	1 321.00		3 963.00	

	1		1			1			,
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						
16.1	18.16.2		GI wire, rivets etc. conforming to IS 636 (type-A) as required: Stainless Steel (Grade 304)	Each	6	4 448.00		26 688.00	
10.1	18.10.2			Lacii	0	4 448.00		20 088.00	
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 equipmets on wall.						
			Connections from riser with 25 mm dia stop gun metal valve						
17.1	18.17.1		& M.S. Pipe and socket. 30 m	Set	3	8 675.00		26 025.00	
17.1	18.17.1		30 m	Set	5	8 07 5.00		20 023.00	
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	1		1			
			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						
22	D3N 2022		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						
22.2		145	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 relevent 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						
23.1			Small Letters): "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	
25	DSR 2022		INTELLIGENT FIRE ALARM SYSTEM 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						
	17.2.1		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 \pm 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/						
25.1	17.2.1.2		Modbus over IP complete as per specifications. Two Loop Panel	Each	1	2 39 225.00		2 39 225.00	
26	DSR 2022 17.2.2		Supplying installation testing & commissioning of easter	<u> </u>					
26	USN 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			200.000		200.000	
	i l		required.	Each	1	2 00 611.00		2 00 611.00	

Image: solution of the soluti	27	DSR 2022 17.2.3		ng, installation, testing & commissioning of repeater ih 320 character/ Touch screen LCD display with						
Image: Image:<			inbuilt r	eset, acknowledge and silence switches complete as	Each	1	1 08 588.00		1 08 588.00	
Image: Image:<	28	DSR 2022 17 2 4	Supplyin	ng installation testing & commissioning of						
Induction Induction Partial Construction of Partial Processing Partial Parti Partial Partenter Partial Partial Partenter Partial Partial Part	20	D3N 2022 17.2.4	intellige	nt analog addressable photothermal detector	Each	105	2 858.00		3 00 090.00	
Image of the second problem of the second converse converse to the second converse of the second converse of the s	29	DSR 2022 17.2.5	indicato	r on surface / recessed MS Box having two LED,	Each	40	276.00		11 040.00	
Image: state in the interpretation is s	30	DSR 2022 17.2.6	intellige	nt addressable programmable sounder complete as	Each	6	2 651.00		15 906.00	
Image: space	31	DSR 2022 17.2.7			Each	6	3 270.00		19 620.00	
Image: Section of the sectin of the section of the section	32	DSR 2022 17.2.14			Each	6	3 871.00		23 226.00	
Image: set interface or set interface or set is accord for a magnetic set interface or set is a set interface or set is a set interface or set is a set	33	DSR 2022 17.2.15			Each	6	3 506.00		21 036.00	
Image: Supplying XPE insulated power cable (conforming 5708 Micro P4 conforming 5708 Micro P4 conf	34	DSR 2022 17.2.18	intellige supplyin manage	nt interface unit BACnet / Modbus protocol i.e., g communication links between building ment system and fire alarm control panel complete	Each	1	1 87 744.00		1 87 744.00	
Image: Supplying XPE insulated power cable (conforming 5708 Micro P4 conforming 5708 Micro P4 conf										
Image: Construction is the strain of the strain o				•						
Image: Section of the sectio			CONDUC	CTOR						
33.1 1.5 gmm. (L. conductor Metre 80 88.00 (Metre 85.00 (Metre 85.00 (Metre 15 (Metre 16 <	35		Part-I) 1: core ISI r	100 Volt grade, 1 core / 2 core / 3 core / 3½ core / 4 marked with Cu. / Al. stranded / solid conductor)						
Image: Solution of the second secon	35.1				Metre	80		86.00		6 880.00
35.3 4 sgmm. Cu. Conductor Metre 15 78.00 1.17000 35.4 35 sgmm. AL Conductor Metre 30 215.00 6450.00 36.1 ICADEE LAYNG Image: Conductor in the provide of 1.1 kV grade of following is the provide of 1.1 kV grade of following is the provide of 1.1 kV grade of following is the provide of 1.1 kV grade of following is the provide of 1.1 kV grade of following is the provide of 1.1 kV grade of following is the provide of			3 CORE /	ARMOURED						
35.4 Alternation Metre 30 215.00 6 645000 36 UTCABE LAWNS UTCABE LAWNS Alternation										
Dot Low Low <thlow< th=""> <thlow< th=""> <thlow< th=""></thlow<></thlow<></thlow<>										
36 DSR 2022 7.8 Laying and fixing of one number PVC insulated and PVC insulated an	55.4		55 sqiilii							
sheather sheather ytter power cable of 1.1 kV grade of following is on cable tray sequided. with the standie with standie with standie w										
33.3	36	DSR 2022 7.8	sheathe	d / XLPE power cable of 1.1 KV grade of following						
Image: second part of a properties of gand and a jumnium lugs for following size of yCC insulated and P/CC sheathed / XPE alumnium conductor cable of 11 KV gade as required. Image: second cable of 11 KV gade as req	36.1	7.8.1			Metre	140	45.00		6 300.00	
37.1 9.1.1 2 K 6 sg. mm (13mm) Each 4 257.00 1 028.00 37.1 9.1.21 3k X 55 sg. mm (22mm) Each 4 257.00 1028.00 37.1 9.1.21 3k X 55 sg. mm (32mm) Each 4 257.00 1028.00 38.1 OSR 2022 4.1 Supplying and installing following size of perforated painted with power coating MS. cable trays with perforation not more than 17.5%, in convenient sections, joined with S. suspenders including bolts & nuts, painting suspenders etc. Image: Cable	37	DSR 2022 9.1	compres PVC ins	sion gland and aluminium lugs for following size of sulated and PVC sheathed / XLPE aluminium						
37.1 9.1.21 3½ X35 sq. mm (32mm) Each 4 369.00 1476.00 38 DSR 2022 4.1 Supplying and installing following size of perforated painted with powder coating MS. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with MS. suspenders including bolts & nuts, painting suspenders etc as required. 38.1 4.1.1 100 mm width X50 mm depth X1.6 mm thickness Metre 30 543.00 16 290.00 39 DSR 2022 17.5.1 Supplying & laying of 2x1.5 sqm 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 LS2H inter bedding, stele wire armouring & LS2H outer sheath complete as required. Metre 400 359.00 143 600.00 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 et. as required. Metre 400 359.00 143 600.00 41 5.15 Providing and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler et. as required. Metre 60 57.00 3420.00 42 5.16 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required. Metre <t< td=""><td>37.1</td><td>9.1.1</td><td></td><td></td><td>Each</td><td>4</td><td>257.00</td><td></td><td>1 028.00</td><td></td></t<>	37.1	9.1.1			Each	4	257.00		1 028.00	
CABLE TRAYS 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, suspender from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 30 543.00 16 290.00 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 conduct having glass mics fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LS2H inter bedding. Stel wire armouring & Metre 400 359.00 143 600.00 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 53.00 143 600.00 41 5.15 Providing and fixing 25 mm X 5 mm GL. strip on surface or in recess for connections etc. as required. Metre 60 244.00 14 640.00 42 5.16 Providing and fixing 5 SMG dia GL. wire on surface or in recess for loop earthing as required. Metre 60 57.00 3 420.00										
38 DSR 2022 4.1 Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perfortation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders et as required. Image: Content of the ceiling with M.S. suspenders including bolts & nuts, painting suspenders et as required. Image: Content of the ceiling with M.S. suspenders including bolts & nuts, painting suspenders et as required. Image: Content of the ceiling with M.S. suspenders including bolts & nuts, painting suspenders et as required. Image: Content of the ceiling with M.S. suspenders including bolts & nuts, painting suspenders et as required. Image: Content of the ceiling with M.S. suspenders including bolts & nuts, painting suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling with M.S. suspenders et as required. Image: Content of the ceiling w	37.1	9.1.21	3½ X 35 s	sq. mm (32mm)	Each	4	369.00		1 476.00	
38.14.1.1100 mm width X 50 mm depth X 1.6 mm thicknessMetre30543.0016 290.0039DSR 2022 17.5.1Supplying & laying of 2x1.5 sqmm fire survival 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.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Image: Supplying and fixing 25 mm dia MS flexible pipe with PVC flexible pi	38	DSR 2022 4.1	Supplyir with por more th connecte suspend	ng and installing following size of perforated painted wder coating M.S. cable trays with perforation not nan 17.5%, in convenient sections, joined with ors, suspended from the ceiling with M.S. ers including bolts & nuts, painting suspenders etc						
Image: cable, 600/1000/ 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.Metre400359.00143 600.0040DSR 2022 17.5.4Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Metre400359.00143 600.0041DSR 2022 17.5.4Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.Metre3053.001590.00415.15Providing and fixing 25 mm X5 mm G.I. strip on surface or in recess for connections etc. as required.Metre60244.0014 640.00425.16Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.Metre6057.003 420.00	38.1	4.1.1			Metre	30	543.00		16 290.00	
Image: second	39	DSR 2022 17.5.1	cable, 6 having g layer of insulatic	00/1000V rated with annealed copper conductor Jlass mica fire barrier tape covered by an extruded Cross Linkable Ethylene Propylene Rubber (EPR) on and LSZH inner bedding, steel wire armouring &	Metre	400	359.00		1 43 600.00	
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	40	DSR 2022 17.5.4	coating a	along with all ancillaries and accessories like coupler	Metre	30	53.00		1 590.00	
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			E A C T		L					
Image: constraint of the second se	41	5.15			1					
recess for loop earthing as required. Metre 60 57.00 3 420.00		5.25			Metre	60	244.00		14 640.00	
	42	5.16			Metre	60	57.00		3 420.00	
									20 40	4 30 343

 Exterior Façade				
Item	Unit	Quantity	Rate	Amount
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				
(±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	Sqm	1238.084	8602	1065000
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				
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				
25mmThe 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	Sqm			
Total	1	1	l	106500

	DSR 2019	Non-SOR				Unit Rate		Amount	
No.	Ref.	Ref.	Description	Unit	Quantity	(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 mediapre-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 31 453.00		30 204.00 62 906.00	
2.3	2.6		2.4 TR 2.8 TR	Each Each	2 3	31 453.00		62 906.00 96 045.00	
2.4	2./			cacin	1	32 015.00		55 045.00	
			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 vaccumiazation 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	м	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	м	68	331.00		22 508.00	
4.3	5.3		insulation 12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick	IVI	00	551.00		22 508.00	
4.5			insulation	м	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	м	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	м	52	707.00		36 764.00	
4.6	5.6		insulation 22.2 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick	IVI	52	707.00		55704.00	
			insulation	м	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	м	44	1 230.00		54 120.00	
				ivi	1 1	1 2 3 0.00		54120.00	
			CONDENSATE DRAIN PIPING						
		NS	Supply, installation, testing and commissioning of UPVC condensate drain						
5	1		water piping of density 20 Kg/m3 complete with fittings like elbows, tees,						
5			reducers, bends, flanges, supports, insulation etc. as required and of following						
5			sizes.	м	190	_	302.00		57 38
			25 mm dia nine Insulation Thickness - 9 mm						46 08
5.1			25 mm dia pipe, Insulation Thickness - 9 mm 32 mm dia pipe, Insulation Thickness - 9 mm		120		384.00	1	40 04
			25 mm dia pipe, Insulation Thickness - 9 mm 32 mm dia pipe, Insulation Thickness - 9 mm 40 mm dia pipe, Insulation Thickness - 9 mm	M	120 60		384.00 468.00		
5.1 5.2			32 mm dia pipe, Insulation Thickness - 9 mm 40 mm dia pipe, Insulation Thickness - 9 mm	М					28 08
5.1 5.2			32 mm dia pipe, Insulation Thickness - 9 mm	М				24 11 297.00	

PRO.	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 periphey 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								
	26.22.2	and ASTM G-21	SQM	166	1981.2	327981.2				
2	NS	ROLER BLINDS								

PRO	PROJECT:- PROPOSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYALAYA SAMITI (NVS) AT SHILLONG (MEGHALAYA).									
	DSR									
	2021 SR.									
	NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT				
		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								
1		maximum width limitation of individual fabric types). A bottom								
1		pocket shall be created in the								
	NS	fabric to incorporate the bottom rail.	SQM	67.62	2460	166345.2				
				07.02	2400	100343.2				
3	NS	SENSOR BASED AUTOMATIC DOOR								
				1	I					

	DSR					
	2021 SR. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	NO.	DESCRIPTION Providing & Fixing of Automatic Bi-Parting Sliding Door Operator Dormakaba ES 200 or OZOM-111E-Plus (N) or similar with frameless 12 mm clear tougened 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 intgrated 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 nessecary fitting and accessories complete as per satisfaction of engineer-in-charge.(Area of opening- approx. upto 25 sqm)	NOS.	QTY 1	RATE 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		12 MM THICK MDF WITH LAMINATION	ļ			<u> </u>

PRO	JECT:- PRC	POSED REGIONAL OFFICE BUILDING FOR NAVODAYA VIDYAL	AYA SAN	/ITI (NVS) AT S	SHILLONG (MEGI	HALAYA).
	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	
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				

DSR					
2021 SR.					
-	DESCRIPTION	UNIT	ΟΤΥ	RATE	AMOUNT
	Providing and fixing of Easy laminated wooden flooring with thickness of 8.3mm, length of 1212 and width of 195mm the gread of material is AC 4 with waxed locking, quick and easy to fit, easy to installe and self alligning the density of flooring is 880 > kg/m3 along with moistur contained of 6%. The static bending stenght is > 30 along with elastic modulus > 3000mpa. The internal bonding strenght >1.0 mpa. the surface soundness > 1.0mpa formaldehyde emission is < 1.5mg/ltr. The level difference between board is < 0.1mm The angel 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 commersial warrenty and a 10 year residential warrenty. The fixing of wooden flooring will be done with 2mm thick hitlon sheet along with beeding , skirting , profile etc Complete. The floor level should be zero level provided by clients end. The colours will be finalised by Engineer-incharge.	SQM	49	3750	18375
sum interio	r(DSR items)			513058 252	
				010000.202	
				1263942 28	
			Sav		
	TOTAL INTERIOR AND GATE (NDSR)		Say		944000
	NO.	NO. DESCRIPTION Providing and fixing of Easy laminated wooden flooring with thickness of 8.3mm, length of 1212 and width of 195mm the gread of material is AC 4 with waxed locking, quick and easy to fit, easy to installe and self alligning the density of flooring is 880 > kg/m3 along with moistur contained of 6%. The static bending stenght is > 30 along with elastic modulus > 3000mpa. The internal bonding strenght >1.0 mpa. the surface soundness > 1.0mpa formaldehyde emission is < 1.5mg/ltr. The level difference between board is < 0.1mm The angel 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 commersial warrenty and a 10 year residential warrenty. The fixing of wooden flooring will be done with 2mm thick hitlon sheet along with beeding , skirting , profile etc Complete. The floor level should be zero level provided by clients end. The colours will be finalised by Engineer-incharge. sum interior (DSR items) Add Amount for Gate TOTAL INTERIOR AND GATE (DSR)	NO. DESCRIPTION UNIT Providing and fixing of Easy laminated wooden flooring with thickness of 8.3mm, length of 1212 and width of 195mm the gread of material is AC 4 with waxed locking, quick and easy to fit, easy to installe and self alligning the density of flooring is 880 > kg/m3 along with moistur contained of 6%. The static bending stenght is > 30 along with elastic modulus > 3000mpa. The internal bonding strenght >1.0 mpa. the surface soundness > 1.0mpa formaldehyde emission is < 1.5mg/ltr. The level difference between board is < 0.1mm The angel 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 commersial warrenty and a 10 year residential warrenty. The fixing of wooden flooring will be done with 2mm thick hitlon sheet along with beeding , skirting , profile etc Complete. The floor level should be zero level provided by clients end. The colours will be finalised by Engineer-incharge. SQM sum interior (DSR items) Add Amount for Gate TOTAL INTERIOR AND GATE (DSR)	NO. DESCRIPTION UNIT QTY Providing and fixing of Easy laminated wooden flooring with thickness of 8.3mm, length of 1212 and width of 195mm the gread of material is AC 4 with waxed locking, quick and easy to fit, easy to installe and self alligning the density of flooring is 880 > kg/m3 along with moistur contained of 6%. The static bending stenght is > 30 along with elastic modulus > 3000mpa. The internal bonding strenght >1.0 mpa. the surface soundness > 1.0mpa formaldehyde emission is < 1.5mg/ltr. The level difference between board is < 0.1mm The angel 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 commersial warrenty and a 10 year residential warrenty. The fixing of wooden flooring will be done with 2mm thick hitlon sheet along with beeding , skirting , profile etc Complete. The floor level should be zero level provided by clients end. The colours will be finalised by Engineer-incharge. SQM 49 sum interior (DSR items) Total Sum interior (NS items) Add Amount for Gate Say	NO.DESCRIPTIONUNITQTYRATEProviding and fixing of Easy laminated wooden flooring with thickness of 8.3mm, length of 1212 and width of 195mm the gread of material is AC 4 with waxed locking, quick and easy to fit, easy to installe and self alligning the density of flooring is 880 > kg/m3 along with moistur contained of 6%. The static bending stenght is > 30 along with elastic modulus > 3000mpa. The internal bonding strenght >1.0 mpa. the surface soundness > 1.0mpa formaldehyde emission is < 1.5mg/ltr. The level difference between board is < 0.1mm The angel difference (90 degree) < 0.15mm. The banana effect is < 0.15mm the colour difference). The abrasion test is > 6000 cycle (AC 4). The weight overlay is > 45 (AC 4) GSM. The range comes with a 2 - year commersial warrenty and a 10 year residential warrenty. The fixing of wooden flooring will be done with 2mm thick hitlon sheet along with beeding , skirting , profile etc Complete. The floor level should be zero level provided by clients end. The colours will be finalised by Engineer-incharge.SQM493750sum interior (DSR items)513058.252Total Sum interior (NS items)513058.252Add Amount for Gate1263942.28TOTAL INTERIOR AND GATE (DSR)Say1777000.432

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

SUMMARY OF COST (CIVIL WORK)

SUMMARY U	PF 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 C	OF PROPOSED REGIONAL OFFICE BUILDIN	G AT UMSAWLI, EAST K
GUEST HOU	SE	
SUMMARY C	DF 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 H	IOUSE								
SUMMAF	RY OF COST (ELECTRICAL WORK)								
		Amount							
SUBHEA	PARTICULARS	DSR ITEMS	NS ITEMS						
	WIRING	76,490.76							
II	SUPPLY OF FITTINGS AND FANS	6,379.00							
	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

		AMOUNT	1
S. No	DESCRIPTION	DSR-2022	NON-DSR
I	INTERNAL WIRING	81741.00	
II	DISTRIBUTION BOARDS & MCB's	6845.00	
	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

SUMMARY OF COST FOR ELECTRICAL WORKS (ELECTRIC SUB STATION)

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG. BILL OF QUANTITIES FOR ELECTRICAL WORKS (ELECTRIC SUB STATION)

.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
1		SUB HEAD (I) :- INTERNAL WIRING				
		(DSR'2018)				
		Point wiring in PVC conduit, with modular type switch :-				
	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 Gl box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
1	1.10.2	Group B Twin Control Point wiring in PVC conduit, with modular type switch :-	Point	13.00	1182.00	15366.0
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. Circuit / Sub main wiring in PVC conduit :-	М	60.00	334.00	20040.00
	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.	М	10.00	233.00	2330.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	М	70.00	275.00	19250.0
4	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	М	30.00	570.00	17100.0
C	1.31	S/F light plug point Modular type accessories :- Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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	Fach	5.00	477.00	2205.00
6	1.32	light plugs to be used in non residential buildings). S/F power plug point modular type accessories :- Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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	Each	5.00	477.00	2385.00
7		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
10	1.26	S/F modular type blanking plate :- 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)				81741.0
11		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's				
		(DSR'2018)				
	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.				
1 2	2.10.1	single pole Supplying & fixing single pole, blanking plate in the existing MCB_DB_complete	Each	6.00	256.00	1536.00
	2.11	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

	2.14	Supplying and fixing following rating, double pole , (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) , having a sensitivity current upto 300 milliamperes 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, SP&N , 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)				6845.00
111		SUB HEAD (III) :- MISCELLANEOUS				
1	2.21	(DSR'2018) Providing and fixing M.V. danger notice plate of 200mmx150mm made of mild steel, atleast 2mm thick and vitreous enamelled white on both sides and with				
		inscription single red colour on FRLSont side as required.	Each	4.00	269.00	1076.00
		TOTAL SUB HEAD (IV) (DSR'2018)				1076.00
		(NON-DSR'2018)				
2	MR	S/F of hexagonal fan box with hexagonal side of approx. 80 mm.in length fabricated from 14 SWG M.S. sheet incorporating with 10 mm. dia. M.S. round bar duly bent for supporting fan hanger painted with red oxide and screwing arrangement with wiring conduit laid in the R.C.C. roof before concreting along with supply of all materials, labour, T&P etc. for proper completion of work.	Each	2.00	345.00	690.00
		TOTAL SUB HEAD (IV) (NON DSR)				690.00
D.Z						
IV		SUB HEAD(IV):-INTERNAL LIGHTING FIXTURES & FANS SUPPLY OF LIGHTING FIXTURES				
		(NON-DSR'2018)				
		Supply of Mounting rail with Master LED tube with all accessories as per standard item:				
1	MR	TMC 501 P 1xT-LED 22W P3241 with Master LED Tube 18 W, 1600 lumen	Each	5.00	1550.00	7750.00
2	MR	1 x 15 watt surface mounting type LED light fixture complete with all accessories as required. (Eq. to Bajaj cat. no. BGSLO SLEEK SURFACE 15W WH RD)	Each	2.00	1270.00	2540.00
		SUPPLY OF CEILING & EXHAUST FANS				
					1	1
		Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required.				
3	MR	Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient	Nos	2.00	2470.00	4940.00
34	MR	Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. 1200 mm sweep Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts,	Nos	2.00	2470.00	
		Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. 1200 mm sweep Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete				
		Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. 1200 mm sweep Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete 300 mm sweep 900 rpm TOTAL SUB HEAD (IV) (NON-DSR) ERECTION OF LIGHTING FIXTURES AND FANS				9690.00
		Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. 1200 mm sweep Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete 300 mm sweep 900 rpm TOTAL SUB HEAD (IV) (NON-DSR) ERECTION OF LIGHTING FIXTURES AND FANS DSR 2016 Installation, testing and commissioning of pre-wired, flourescent 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	Nos	3.00	3230.00	9690.00 24920.00
4	MR	Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. 1200 mm sweep Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete 300 mm sweep 900 rpm TOTAL SUB HEAD (IV) (NON-DSR) ERECTION OF LIGHTING FIXTURES AND FANS DSR 2016 Installation, testing and commissioning of pre-wired, flourescent 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. Installation, testing and commissioning of ceiling fan including wiring the down rod of standard length (upto 30 cm.) with 1.5 sq. mm. FRLS PVC insulated,				9690.00
4	MR 1.41	Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. 1200 mm sweep Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete 300 mm sweep 900 rpm TOTAL SUB HEAD (IV) (NON-DSR) ERECTION OF LIGHTING FIXTURES AND FANS DSR 2016 Installation, testing and commissioning of pre-wired, flourescent 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. Installation, testing and commissioning of ceiling fan including wiring the down	Nos	3.00	3230.00	9690.00 24920.00

		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

ESTI	MATE OF PROPOSED REGIONAL OFFICE BUILDING AT	UMSAWLI, E	AST KHASI I	HILLS DI	STRICT, SH	HILLONG.	
		,			,		
	TRACT OF COST CTRIC SUB STATION						
LEFE							
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	СЛМ	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	E 00 4	4 470	0.114	7007.2	44750.00	
	(i) R.C.C. work in Footing (ii) R.C.C. work in Beam	5.33.1 5.33.1	1.470 1.420	CUM CUM	7997.3 7997.3	11756.03 11356.17	
	(iii) R.C.C. work in Columns	5.33.1	0.540	CUM	7997.3	4318.54	
	Above plinth to floor-V IvI Same as above but R.C.C. work abive plinth LvI. (i) R.C.C. work in Lintel (ii) R.C.C. work in Beam (iii) R.C.C. work in Columns (iii) R.C.C. work in Slab (iv) R.C.C. work in Slab	5.33.2 5.33.2 5.33.2 5.33.2 5.33.2	0.440 1.440 1.770 7.520	CUM CUM CUM CUM	10080.15 10080.15 10080.15 10080.15	4435.27 14515.42 17841.87 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 : Foundations, footings, bases of columns, etc. for mass concrete.						
(a)		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	СЛМ	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 :	6.4					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	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 side 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: With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	12.19 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	

Add Abs or plaster dip course groove in plastered surface or mounding for AC. C pojection. 15000000000000000000000000000000000000								1
add or the : 1.1 (1 sement 6 cause and) 13.5.2 66.455 504 33.9.1 2010.89 28 Torm camer basis or that sold or signed number of the sold or sold readed signed ranked argebra ranked ranked argebra ranked ranked ranked ranked ranked ranked	24		5.30	30.77	RM	64.7	1990.82	
Initial procession of solution provided angles and according Bhrom in grift and finished even and smooth no extra incording Bhrom in grift and finished even and smooth no extra incording Bhrom in grift and finished even and smooth no extra incording Bhrom in grift and finished even and smooth no extra incording Bhrom in grift and finished even and smooth no extra incording Bhrom in grift and finished even and smooth no extra incording Bhrom in grift and finished even and smooth no extra incording Bhrom incording Bhrom	25		13.5.2	86.455	SQM	339.1	29316.89	
Image: series of the set of the	-	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	13.4.2	110.70	SQM	294.35	32584.55	
Imb:: 14 (1 commit: 4 course sand). 13.5.1 11.670 SOM 354.5 413.02 29 Making pittih protection SOmm Bick for commet concrete 13.6 (1) corner. : 3: Corne sand : 6 graded store aggrees 20 nm incremal size) over 7mm Bick bed of dy pirk kallast 40 nm incremal size) over 7mm Bick bed of dy pirk kallast 40 nm incremal size) over 7mm Bick bed of dy pirk kallast 40 nm incremal size) over 7mm Bick bed of dy pirk kallast 40 nm incremal size) over 7mm Bick bed of dy pirk kallast 40 nm incremal size (1) corner. : 3: Corne sand : 6 grade size size size (1) corner (1) corn	27	6 mm cement plaster on celling (a) 1:3(1 cement:3 fine sand)	13.16.1	48.01	SQM	253.05	12148.93	
centref 1: 3 course sand 1: 6 graded store aggregate 20 mm nominal size, well rammed and consolidated and grouted with the sand. Including nocessary excavation, leveling 8 design 4 4.17 24.750 SQM 681.65 16870.84 30 Brick edging in fall brick with and half brick depth including conserve account of sign and disposal of signals each lead upb 20 meres. With common burnt clay F.P.S (non modulu) brick of the sale. The sale of the sale. Including nuclease act lead upb 20 meres. With sale of center slaver mode with ginere to match the shade of the sale. Including nuclease act lead upb 20 meres. With sale of center slaver mode with ginere to match the shade of the sale. Including nuclease at lay mode with ginere to match the shade of the sale. Including nuclease at lay mode with ginere to match the shade of the sale. Including nuclease at lay mode with ginere to match the shade of the sales, including nubbing and polising the sale sale. The shade of the sales, including rubbing and polising and	28		13.5.1	11.670	SQM	354.5	4137.02	
excertation refilling and disposal of surplus each liked upto 50 metres. With common burnt (ay F.P.S. (non modulur) bricks of class designation 75. 18.7.1 28.00 RM 179.5 5026.00 31 Kota stone slab flooring over 20 mm (average) thick base liaid over and jourde with grey entern stury mixed with goment to match the shade of the slab. including rubbing and polishing complete with base of ownern totar 1: 4 (1 coment : 4 coarse and) and polishing complete with base of ownern totar 1: 31.01 (coment: 3 coarse sand) and polishing complete with comment stury mixed with jogment to match the shade of the slabs, including rubbing and collishing complete with worker polishing complete with one of the slabs, including rubbing and collishing complete with over commet stury mixed with wo chronium plated brass brackets fixed with C.P. brass screws and wooden plays etc. wherever necessary complete (a) (b) Paring with synthetic ename plant of approved the and and manufacture to give an even shade. Two or more coals on new work. 13.80.3 12.00 SOM 55.5 666.00 35 Distempering with oil bound washable distemper of approved thread and manufacture to give an even shade. New work (two or more coals) or an including water thread and manufacture to give an even shade. New work (two or more coals) or an including water thread and manufacture to give an even shade. New work (two or more coals) or and including water thread and manufacture to give an even shade. New work (two or more coals) or and including water thread and manufacture to give an even shade. New work (two or more coals) or and including water thread and manufacture to give an even shade. New work (two or more coals) or required shade. New work (two or more coals) or design and coals	29	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 &	4.17	24.750	SQM	681.65	16870.84	
over and jointed with grey cernent stury mixed with pigreent to match the stade of the stade, louding rubbing and polishing sand): 25 mm thick. 27.480 SQM 1706.6 46897.37 2 Kota stee slabs 20 nm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 13. (1 cement: 3 coarse sand) and pilled with argy cement stury mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. 2.33 SGM 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 plate states to ackets fixed with C.P. brass screws and wooden plate states to acket with core not coats on new work. 2.33 12.00 SQM 482.3 2035.31 34 Steel Painting: 13.50.3 12.00 SQM 55.5 666.00 35 Distription with synthetic enamel paint of approved brand and manufacture to give an even shade: New work (New or more coats) over and including water 13.61.1 12.00 SQM 131.45 157.7.40 36 Distempering with synthetic enamel paint of approved brand and manufacture to give an even shade: New work (New or more coats) over and including water 13.41.1 134.465 SQM 162.35 2187.29 37 Prowding and fixing aluminium st	30	excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modulur) bricks of	16.7.1	28.00	RM	179.5	5026.00	
pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with preyement lum match the shade of the slabs, including rubbing and polishing complete. SQM 2038.55 9642.34 33 PF curtain rods of 125mm thick chromium plated brass plate, with wo chromium plated brass brackets fixed with C.P. brass screws and wooden plugs etc. wherever necessary complete (a) 25 mm dis. RM 482.3 2035.31 34 Steel Painting: (D) Painting with synthetic enamel paint of approved brand and manufacture on sele glavanised iror/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 55.5 666.00 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 thimable distemper of approved brand and manufacture to give an even shade: New work (two or more coats) over and including rubmine. 13.41.1 134.45 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 @ 14.3 IV to Sm. over and including priming coat of exterior primer applied @ 2.20 kg / 10 sgm). 13.47.1 4.50 SQM 162.35	31	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	11.26.1	27.480	SQM	1706.6	46897.37	
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 Stel Painting: -		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	11.27	4.730	SQM	2038.55	9642.34	
(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on stell galvanised iron/stell 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. 9.97.1 3.00 NOS 117.65 352.95 300 x 10mm 9.97.3 3.00 NOS		with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs etc. wherever necessary complete (a)	(DSR-9.46.3)	4.22	RM	482.3	2035.31	
(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on stell galvanised iron/stell 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. 9.97.1 3.00 NOS 117.65 352.95 300 x 10mm 9.97.3 3.00 NOS	24	Ote al Daintina.						
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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. 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 9 100.1 6.00 NOS 60.05 360.30		brand and manufacture to give an even shade : New work (two or more coats) over and including water	13.41.1	134.465	SQM	162.55	21857.29	
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necessary screws etc. complete. 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 Image: Constraint of the start of	37	anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts	9.96.2	3.00	NOS	234.90	704.70	
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marked anodised (anodic coating not less than grade AC 10 as	39		9.100.1	6.00	NOS	60.05	360.30	<u> </u>
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	-							
SAY IN LACS 8.49			9.101.2	3.00	NOS	62.25 TOTAL	186.75 849160.19	

VPC.	TRACT OF COST						
	/P ROOM]						
S.N.	DESCRIPTION OF ITEM	DSR- 2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.) ON NON DSF
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	СЛМ	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	СЛМ	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	5 00 4	0.000	0.114	7007.0	0007.04	
	(i) R.C.C. work in Footing (ii) R.C.C. work in Beam	5.33.1 5.33.1	0.800 0.510	CUM CUM	7997.3 7997.3	6397.84 4078.62	
	(iii) R.C.C. work in Columns	5.33.1	0.320	CUM	7997.3	2559.14	
(11)							
(II)	Above plinth to floor-V IvI Same as above but R.C.C. work abive plinth LvI. (i) R.C.C. work in Lintel (ii) R.C.C. work in Beam	5.33.2 5.33.2	0.090	CUM CUM	10080.15	907.21 5140.88	
	(iii) R.C.C. work in Columns (iv) R.C.C. work in Slab	5.33.2 5.33.2	0.910	CUM CUM	10080.15 10080.15	9172.94 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 a bove 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 :	6.4					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	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 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	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	

22 Commo cameral plaster in single cost on fair also of single or half brick will for ordering plastoring up of hoor two levels in single cost of the single or half brick will for ordering half brick denses and i.e. the single for ordering half brick will for ordering half brick denses and i.e. the single for ordering half brick den								
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ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHI

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

SUMMARY OF COST FOR ELECTRICAL WORKS (PUMP ROOM)

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

.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUN (in Rs)
		SUB HEAD (I) :- INTERNAL WIRING			, ,	, <i>,</i> ,
		(DSR'2018)				
		Point wiring in PVC conduit, with piano type switch :-				
	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	4.0.0		Deint	2.00	4445.00	4005.00
I	1.8.3	Group C Twin Control Point wiring in PVC conduit, with piano type switch :-	Point	3.00	1445.00	4335.00
	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				
2		required.	Point	1.00	1457.00	1457.00
	1.12	Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :- Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper				
	1.12	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				
3		for loop earthing as required.	M	10.00	334.00	3340.0
		Circuit / Sub main wiring in PVC conduit :- Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of				
	1.14	FRLS PVC insulated copper conductor, single core cable in surface/ recessed				
4		medium class pvc conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	М	10.00	233.00	2330.0
_	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	10.00	275.00	2750.0
4	1.14.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	М	5.00	570.00	2850.0
	1.29	S/F light plug point piano type accessories :- Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal size)				
	1.20	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,				
5		connections, painting etc. as required.	Each	1.00	358.00	358.00
		S/F power plug point piano type accessories :-				
		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				
6	1.3	type switch, connections, painting etc. as required.	Each	1.00	488.00	488.00
		TOTAL SUB HEAD (I) (DSR'2018)				17908.0
l		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's (DSR'2018)				
	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.				
	0.40.4	as required.		0.00	050.00	700.00
1 2	2.10.1	single pole Supplying & fixing single pole, blanking plate in the existing MCB DB complete	Each	3.00	256.00	768.00
<u>-</u>	2.11	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	2642.0
Ŧ	2.14.2	Supplying and fixing following way, single pole and neutral, sheet steel, MCB	Luon	1.00	2072.00	2072.0
		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	2206.0
5	2.0.1			1.00	L	2200.00

		TOTAL SUB HEAD (II) (DSR'2018)				6064.00
Ш		SUB HEAD(III):-INTERNAL LIGHTING FIXTURES & FANS				
		SUPPLY OF LIGHTING FIXTURES				
		(NON-DSR)				
		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
		Supply of Green Line Smart of 10 watt and 1000 lumen, luminaire is perfect for				
	MR	secondary roads and pathways. It sports a compact body, which offers a highly				
	INK	efficient lighting solution as compared to fluorescent and CFL street lights. (such				
2		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, flourescent fitting / compact				
'	1.41	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	Laon	1.00	200.00	200.00
-		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

ABC.	TRACT OF COST						I
	try Booth]						
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.						ON NON DSF
	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	E 22 1	0.200	CUM	7997.3	3118.95	
	(ii) R.C.C. work in Beam	5.33.1 5.33.1	0.390	CUM	7997.3	2239.24	
	(iii) R.C.C. work in Columns	5.33.1	0.280	CUM	7997.3	1519.49	
()	Above plinth to floor-V IvI						
<u>(</u> /	Same as above but R.C.C. work abive plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2 5.33.2	0.050	CUM CUM	10080.15 10080.15	504.01 2822.44	
	(ii) R.C.C. work in Beam (iii) R.C.C. work in Columns	5.33.2	0.280	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 a bove 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				2000		
(a)	removal of form for all heights : 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	

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	СЛМ	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	6.4					
	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 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	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	

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Cov Do In Loss 404	-							
			Say Rs. In Lacs				1.21	
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ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHI

		AMOUNT	
S. No	DESCRIPTION	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

SUMMARY OF COST FOR ELECTRICAL WORKS (SENTRY BOOTH)

ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG. BILL OF QUANTITIES ELECTRICAL WORKS (SENTRY BOOTH)

10	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUN (in Rs)
		SUB HEAD (I) :- INTERNAL WIRING				
		(DSR'2018)				
		Point wiring in PVC conduit, with piano type switch :-				
	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	1.8.3	Group C	Point	2.00	1445.00	2890.00
	10	Twin Control Point wiring in PVC conduit, with piano type switch :-				
	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				
2		required.	Point	1.00	1457.00	1457.0
	1.12	Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :- Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper				
	1.12	conductor single core cable in surface/ recessed medium class pvc conduit				
2		alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable				
		for loop earthing as required.	М	5.00	334.00	1670.0
		Circuit / Sub main wiring in PVC conduit :- Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of				
	1.14	FRLS PVC insulated copper conductor, single core cable in surface/ recessed				
		medium class pvc conduit as required.				
		2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	М	5.00	233.00	1165.0
		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	5.00 2.00	275.00 570.00	1375.0 1140.0
	1.14.3	2 X 10 sq. mm + 1 X 6 sq. mm earth wire S/F light plug point piano type accessories :-	IVI	2.00	570.00	1140.0
ł	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,				
5		connections, painting etc. as required.	Each	1.00	358.00	358.00
L		S/F power plug point piano type accessories :- 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				
6	1.3	type switch, connections, painting etc. as required.	Each	1.00	488.00	488.00
		TOTAL SUB HEAD (I) (DSR'2018)				10543.0
		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's				
	0.40	(DSR'2018) Supplying and fixing 5 amps. to 32 amps. rating, 240 volts `C' series, miniature				
6 1	2.10	circuit breaker (MCB)suitable for inductive load of following poles in the				
		existing MCB DB complete with connections, testing and commissioning etc.				
		as required.				
1	2.10.1	single pole	Each	1.00	256.00	256.00
	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	Laon	1.00	10.00	10.00
	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	2642.0
	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)				
	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.0

		TOTAL SUB HEAD (II) (DSR'2018)				5552.00
		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
		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				
	MR	efficient lighting solution as compared to fluorescent and CFL street lights. (such				
2		as Philips -BRP022 LED 10 CW MR S1 PSU GR or Equivalent).	Each	1.00	3420.00	3420.0
		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	3230.0
						8200.00
		TOTAL SUB HEAD (III) (NON-DSR)				0200.00
		ERECTION OF LIGHTING FIXTURES AND FANS				
		(DSR'2018)				
1	1.41	Installation, testing and commissioning of pre-wired, flourescent 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

PRELIMIN	ARY ESTIMATE OF PROPOSED R	EGIONAL OFFICE BUILDING	AT UMSAWLI, EAST KHASI HILL
SUMMAR	Y OF DEVELOPMENT WORKS	· · · · · · · · · · · · · · · · · · ·	
	PARTICULARS OF ITEMS	DSR-2021	Non-DSR
	DEVELOPMENT OF CAMPUS		
	EARTH CUTTING/ FILLING,		
	DEVELOPMENT OF LAND	188337.9522	
	APPROACH PROVISION WITHIN		
2	CAMPUS		
2.1	CC ROAD	860111.7325	
2.2	PATHWAYS		
2.2	RCC CULVERT (2 NO)	346647.526	
	EXTERNAL WATER SUPPLY		
-	WATER SUPPLY DISTRIBUTION		
	LINE	297002.1584	
	TUBE/ OPEN WELL I/ C ,	297002.1304	
	SUBMERSIBLE PUMP 7.5 HP.		
	AND CABLING ETC COMPLETE.	504040 4	044000
		521346.1	
	UNDER GROUND SUMP (100 KL)	1997796.71	l
	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		
3.4	(2x95000=1,90,000)		19000
4	EXTERNAL SEWERAGE		
4.1	EXT. SEWERAGE LINE	629544.659	
4.2	APRON DRAIN	382773.4972	
	STROM WATER DRAIN	582064.0966	
-	5.0 H.P. KIRLOSKER SEWERAGE		
	PUMP (AIR COOL) MOUNTED		
	ON TROLLY WITH 10		
	M.SUCTION & 10 M. DEL		
			45000
	(2x75000=1,50,000)		15000
-	EXTERNAL ELECTRIFICATION		
5.1	HT/LT PANEL		24500
	STREET LIGHTING USING		
5.2	UNDER GROUND CABLES		883082.4
	EXTERNAL CABLE LAYING /		
	CABLE CONNECTION USING		
	U.G. CABLES FROM SUB		
	STATION TO FEEDER PILLER /		
	BUILDIING AND PUMP HOUSE		
5.3	AND EARTHING	771005.15	
	11kv Electric connection from		
54	DISCOM with 100kv sanction load		100000
	200KV Transformer		80000
	100KV D.G Set		80000
	RMM RETAINING WALL		
		E04004.0700	l
	1.00 METER HEIGHT WALL	591861.3722	
	2.00 METER HEIGHT WALL	2186872.991	
	RCC RETAINING WALL		
	3.00 METER HEIGHT WALL	2412989.072	
	4.00 METER HEIGHT WALL	2733937.994	
7.3	5.00 METER HEIGHT WALL	2332401.773	
	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 Buildin	ng NVS Me	ghalaya		
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	<u>3200000</u> 32,00,000

	T OF COST (C	,				
S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
1.0	2	EARTH WORK				
1.0	-					
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	388923.6
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	3,03,090.8
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	48,460.5
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	123188.4
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	140087.0
		Total of sub-head				1003750.3
						1000700.0
2.0	4					
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	362444.5
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	4867.8
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.		00.00	604.05	64046
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 &	Sqm	90.00	681.65	61348.
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 &	Sqm	90.00	681.65	61348. 428660 .
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	
		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	
3.0	5	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. Total of sub-head REINFORCED CEMENT CONCRETE Centering and shuttering including strutting, propping etc. and	Sqm Sqm	90.00	681.65	

S. No.	Ref. No	Description	Unit	Quantity		Amount (Da)
d)	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
ч)	0.0.10	cornices, window sills, string courses, bands, copings, bed				
		plates, anchor blocks and the like	Sqm	4.52	307.95	1390.39
e) f)	5.9.16 5.9.16.1	Edges of slabs and breaks in floors and walls Under 20 cms wide	metre	350.40	181.90	63737.70
g)	5.9.3	Suspended floors, roofs, landings, balconies and access	meare	000.40	101.90	03737.70
		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).				
(;)	5.33.1		Cum	253.46	7997.30	2027008.01
(i) (ii)	5.33.2	All works upto plinth level All works above plinth level upto floor V level	Cum	382.02	10080.15	3850841.2
()		· ·				
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					
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	467187.20
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				
4.05	6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
4.00	0.44	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 shado				
<u>b)</u> i)	8.2.2	Granite of any colour and shade 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) a)	9.27.1	35 mm thick shutters 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.			0140.10	200070.00
		·				

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				
2)	9.51.2	mm all complete.	Sqm	51.98	812.40	42224.49
a)	9.51.2	With 12 mm mild steel U beading	Oqiii	01.00	012.40	42224.43
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 sealent 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 sealent shall be paid separately). Variation in profile dimension in higher side 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				
1.00						

S. No.	Ref. No	Description				
7.01	10.11	Providing and fixing factory made ISI marked steel glazed doors,	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
		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)				
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.	Kg	2509.65	175.65	440820.02
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-incharge, (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
7.00	10.00				012.20	100010.00
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 lst 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	11	Overstitus		
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.	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
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	Sqiii		01.45	20307.12
		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.	Sqm	4270.67	123.85	528922.76
		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)	Ind 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 (1 cement : 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 strengthned 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

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 :				
a)	2.10.1	All kinds of soil Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
<u>a)</u> b)	2.10.1.1			20.00	200.00	0000.70
		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 12.42.1.2	Coupler 110 mm	Each	3.00	119.95	359.85
a)	12.42.1.2		Laui	3.00	119.90	309.00
ii)	12.42.5	Bend 87.5°	F b		100.00	
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) i)	17.35.1 17.35.1.2	100 mm dia. Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS:	Metre	95.00	1077 40	01570.000
b)	17.35.2	3989 75mm diameter	Wette	85.00	1077.40	91579.000
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.				
<u>a)</u> i)	17.38.1	100 mm Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
b)	17.38.2	75 mm		10.00	007.00	.0700.000
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	2.00	453.40	906.800
		Descriptions and fining relation based of menuined descenses				
3.12	17.39	Providing and fixing plain bend of required degree.				
3.12 a) i)	17.39 17.39.1 17.39.1.2	100 mm Sand cast iron S&S as per IS : 3989	Each	33.00	439.75	14511.750

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
	17.40	Providing and fixing heel rest sanitary bend				
<u>a)</u> i)	17.40.1	100 mm_dia Sand cast iron S&S as per IS - 3989	Each	4.00	439.75	1759.000
/	17.40.1.2	75 mm dia	Eddi	4.00	400.10	1700.000
i)		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				
a)	17.43.1	nuts complete. 100x100x100mm				
		Sand cast iron S&S as per IS - 3989 75x75x75mm	Each	9.00	731.40	6582.600
b) i)	17.43.1 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	_			
		Sand cast iron S&S as per IS - 3989	Each	15.00	707.30	10609.500
b) i)	17.44.2	75x75x75mm Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.900
	17.55 17.55.1	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete : 100 mm				
	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	10.00	611.00	6110.000
b) i)	17.55.2	75 mm Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.800
/				2.00	-00.40	000.000
3.17 a)	17.56 17.56.1	Providing and fixing terminal guard : 100 mm				
	17.56.1.2	Sand cast iron S&S as per IS - 3989	Each	9.00	439.75	3957.750
b) i)	17.56.2	75 mm Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
)	17.30.2.2		Lacii	1.00	311.55	311.330
	17.57 17.57.1	Providing and fixing collar : 100 mm				
i)	17.57.1.2	Sand cast iron S&S as per IS - 3989	Each	20.00	439.75	8795.000
b) i)	17.57.2 17.57.2.2	75 mm 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				
-)	47 50 4	(spun) iron pipes and fittings of diameter :	Each	25.00	E40.65	10741 050
a) b)	17.58.1 17.58.2	100 mm 75 mm	Each	25.00 20.00	549.65 466.40	13741.250 9328.000
	17.59	Providing and fixing M.S. stays and clamps for sand cast iron/				
	47 50 4	centrifugally cast (spun) iron pipes of diameter :	Fach	0.00	400.05	4457.050
a) b)	17.59.1 17.59.2	100 mm 75 mm	Each Each	9.00 1.00	128.65 80.10	1157.850 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	40.00	40.65	F00 00-
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 a)	17.70 17.70.1	Providing and fixing PTMT Bottle Trap for Wash basin and sink. 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 Eureopean 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.				
	40.40.4	External work		00.00	457.70	40704.00
	18.12.4	32mm dia nominal bore	Metre	30.00	457.70	13731.00
	18.12.5 18.12.6	40mm dia nominal bore 50mm dia nominal bore	Metre	30.00	558.35 342.70	16750.50
	10.12.0	Total of sub-head	Metre		342.70	556219.05
						000210.00
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) d)	18.7.4	32 mm nominal outer dia Pipes	Metre Metre	15.00 30.00	500.95 674.35	7514.25 20230.50
d) e)	18.7.5 18.7.6	40 mm nominal outer dia Pipes 50 mm nominal outer dia Pipes	Metre	20.00	548.55	20230.30
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 the providing the pipe of a complete :				
a)	18.13.1	threading the pipe etc. complete : 25 to 40 mm nominal bore	Each	2.00	757.10	1514.20
ч)	10.10.1			2.00		1017.20

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 :	E I	0.00	000.05	007.70
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 guality (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				
a)	18.18.3	low pressure, with plastic floats complete : 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.	Edon	10.00	000.00	
a)	18.58.1	Circular type.				
i)	18.58.1.1		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
/	19.2.4	250 mm diameter S.W. pipe	Metre	20.00	1027.00	21000.00
c)	19.2.4		IVIEUE	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	10.0	Extra for donth for monholog :				
5.05	19.8	Extra for depth for manholes :				
<u>a)</u>	19.8.1	Size 90x80 cm				
i)	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class	Motro	2.00	0107 45	16054.00
		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 :	Mate	10.00	100.45	1001.05
<u>a)</u>	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 SHEDULE 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 neccessary 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. alround 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.				
a)		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. 160 mm outer dia	Metre	110.00	1012.00	
ч				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

ABSTRA	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,				-		
1.00	2.21	ramming, consolidating and dressing complete.	Cum	5.43	2,161.20	11,741.80		
1.04	10.0							
1.04	16.3 16.3.9	Supplying and stacking at site. Good earth	Cum	23.09	624.55	14,421.02		
<u> </u>	10.5.9		Juin		527.00	17,721.02		
		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				
	1		бүш	0.00	507.95	161.92		

10) 53.17 Edge of tables and besits in local and walls 100 <th>S. No.</th> <th>Ref. No</th> <th>Description</th> <th>Unit</th> <th>Quantity</th> <th>DSR 21 Rate</th> <th>Amount (Rs.)</th>	S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
0 6:93 Supported from, ionfi, lunding, balacetes and access platform Sep 62.24 796.55 47.598.55 0) 5:55 Hields, beams, plinth beams, plinth beams, plinth beams, plinth and callieves. Sep 68.00 600.35 41.367.80 3102 5:27 Shell reinforcement for R.C.C. work including straightening, cutting, beading, placing in position and bening all complete upp plants (support and beading). Houghan 4,351.00 80.86 3,00.07.15 303 5:30 Add for plaster dig course (growe in plastered aufrace or moutling to R.C.C. Metre 7.45 64.70 462.02 304 5:33 Providing and taking in position machine balacted autorace or moutling to R.C.C. Metre 7.45 64.70 462.02 304 5:33 Providing and taking in position machine balacted autorace to work, using corrent or construct more than be appropriated disgram in the control of corrents, improve workability without impairing entropin and construct a per parameter without impairing entropin and construct and parameter work. Cum 16.47 10.080.16 1.85.908.85 60 5:32.1 All works above plinth level upo foor V level Cum <							
g) 5.9.5 Unterlin, beam, pirmt beam, griden, breakumers and cantileven. gen 68.00							
Image: Control of the second	- /			Sqm	62.54	766.55	47,938.50
placing in position and binding at complete uppo printin local. placing in position and binding at complete uppo printin local. placing in position placing in	g)	5.9.5	Linteis, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	68.00	608.35	41,367.80
a) 5.22.6 Thermo-Mechanically Treated bars of grade F-6500 or more. kilogram 4.31 00 98.95 3.0007.15 3.03 5.30 Add for plaster dip courser groove in plastered surface or moulding to R.C.C. predictors. Mere 7.45 64.70 422.02 3.04 5.33 Providing and laying in position machine batched and machine mixed design mix Machine plastered surface or moulding to R.C.C. predictors. Mere 7.45 64.70 422.02 3.04 5.33 Providing and laying in position machine batched and machine mixed design mix Machine plastered surface or moulding to location the surface or moulding to locatio	3.02	5.22					-
Image: Second	a)	5.22.6		kilogram	4 351 00	89.65	3 90 067 15
prejections. Metre 7.45 64.70 482.02 3.04 5.33 Providing and laying in goalion machine batched and machine model design mix. Value of the second contrest of method second work, using cancer of the second machine batched and machine work, using cancer of the second contrest or method second machine model design mix. Value of the second contrest of method second machine batched and machine design mix. Value of the second contrest of method second machine batched and machine goal control method second machine goal contrelevel method second machine goal control method sec				Kilogram	4,001.00	00.00	-
M-25 grade center contret for reinforced centernit concrete work, using centernit laying but excluding the cost of centering, shittering, finishing and reinforcement, including admituses in recommende proportions as per IS-9103 to accelerate, retard setting of concrete, improve workshilty without impairing strength and durability as per direction of Engineerin-change. (Note :) Center to considered in this item is (@ 330 kg/cum. Excess) less center used as per design mix is paybelreacoverable separately). Cum 20.25 7,997.30 1.61,988.28 (0) 5.33.1 All works upto plinth level Cum 16.47 10.080.16 1.65.989.88 (0) 5.33.2 All works above plinth level Cum 16.47 10.080.16 1.65.989.88 (1) 5.33.2 All works above plinth level upto floor V level Cum 16.47 10.080.16 1.65.989.88 (2) 6.4 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in suparistructure above plinth level up to floor V level Cum 15.11 6.658.25 1,00.624.33 4.02 6.4.3 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in suparistructure above plinth level up to floor V level 16.82 6.994.15 1,17.651.92 4.03 6.13 Ident motar 1.4 (1 cement : 6 coarse sand) <td< td=""><td>3.03</td><td>5.30</td><td></td><td>Metre</td><td>7.45</td><td>64.70</td><td>482.02</td></td<>	3.03	5.30		Metre	7.45	64.70	482.02
Image: Construction of the second	3.04	5.33	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				
(ii) 5.33.2 All works above plinth level upto floor V level Cum 16.47 10.080.15 1.66,989.88 Image: Complex	(i)	5.33.1	All works upto plinth level	Cum	20.25	7 997 30	1 61 968 28
Image: constraint of the second se	(ii)	5.33.2	All works above plinth level upto floor V level				
4.0 6 BRCK WORK Image: Comparison of the imag						,	, ,
4.0 6 BRCK WORK Image: Comparison of the imag							
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 motar 1.6 (1 cement : 6 coarse sand) Cum 15.11 6.682.55 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 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 motar 1.4 (1 cement : 4 fine sand). Metre 33.00 55.80<			Total of sub-head				8,98,690.89
a) 6.1.2 Cement mortar 1.6 (1 cement : 6 coarse sand) Cum 15.11 6.688.25 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 : - <t< td=""><td>4.0</td><td>6</td><td>BRICK WORK</td><td></td><td></td><td></td><td></td></t<>	4.0	6	BRICK WORK				
Cum15.116.658.251,00,624.334.026.4Brick 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 i:	4.01	6.1					
a) designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :	a)	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	15.11	6,658.25	1,00,624.33
4.03 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. 1 <td></td> <td>-</td> <td>designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :</td> <td></td> <td>40.00</td> <td></td> <td></td>		-	designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :		40.00		
a) designation 7.5 in superstructure above plinth level up to floor V level. Sqm 72.88 1,018.05 74,197.52 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 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 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 hetre Metre 33.00 55.80 1,841.40 5.0 8 MARBLE WORK Image: modular and sing 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, appr	a)	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	16.82	6,994.15	1,17,651.92 -
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 7 Total of sub-head 1 3,00,615.83 3,00,615.83 5.0 8 MARBLE WORK 1 1 1 1 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. 1 </td <td>4.03</td> <td>6.13</td> <td></td> <td></td> <td></td> <td></td> <td></td>	4.03	6.13					
third course of half brick masonry.Sqm72.8886.456,300.654.056.44Brick 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).Metre33.0055.801,841.40	a)	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	72.88	1,018.05	74,197.52
clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).Metre33.0055.801,841.40Image: Star Star Star Star Star Star Star Star	4.04	6.15		Sqm	72.88	86.45	6,300.65
5.0 8 MARBLE WORK Image: Constraint of the state of the sta	4.05	6.44	clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with	Metre	33.00	55.80	1,841.40
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. Image: Complete at all levels a) 8.2.2 Granite of any colour and shade Image: Complete at all levels (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. Image: Complete as per design approved by Engineer-in-Charge. Image: Complete as per design approved by Engineer-in-Charge.			Total of sub-head				3,00,615.83
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. Image: Complete at all levels a) 8.2.2 Granite of any colour and shade Image: Complete at all levels (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. Image: Complete as per design approved by Engineer-in-Charge. Image: Complete as per design approved by Engineer-in-Charge.	50	8					
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)8.2.2Granite of any colour and shadea(i)8.2.2.2Area of slab over 0.50 sqmSqm1.654.425.357.301.835.028.3Providing 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	0.0	,					
(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. - - -	5.01	8.2	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				
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. -				Cam	1.65	1 105 05	7 204 00
including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	(1)	8.2.2.2	Area or stad over 0.50 sqm	Sqm	00.1	4,420.35	7,301.83
	5.02	8.3	including machine polishing to edge to give high gloss finish etc. complete as per				
	a)	8.3.2		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,	Unit	Quantity	DSR 21 Rate	Amount (NS.)
		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				
0.01		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	0.01	Draviding and fiving ISI marked flush deer shutters conforming to IS + 2202 (Dart				
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				
a)	9.97.4	colour or shade, with necessary screws etc. complete : 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		Quality		<u>,</u>
		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	0.120	Draviding and fiving our board abuttors with 25 mm thick vancared particle board				
0.15	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				
0.10	9.147	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 \pm 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
0.47	0.50	Description and finite 100 method evidies of M.O. simple action environ his met				
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
0.40	0.70					
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	0 111	Providing and fixing wooden moulded corner beading of triangular shape to the				
0.20	9.111	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		Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).				
	9.7.7.2		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 &				
		mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate				
		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				
		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				
		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				
		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				
		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				
	0.477	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	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 Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47				
a)	9.147B.1	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	C~~~	4.40	7 340 00	0 450 44
a)	9.147B.1	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 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 2,21,026.87
		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 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 2,21,026.87
a) 7.00	9.147B.1	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 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	
7.00	10	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 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. Total of sub-head STEEL WORK	Sqm	1.13	7,249.90	
		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 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. Total of sub-head Providing and fixing T-iron frames for doors, windows and ventilators of mild steel	Sqm	1.13	7,249.90	
7.00	10	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 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. Total of sub-head 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		1.13	7,249.90	
7.00	10	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 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. Total of sub-head Providing and fixing T-iron frames for doors, windows and ventilators of mild steel	Sqm	1.13	7,249.90	
7.00	10 10.13	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 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. Total of sub-head 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.	Sqm	1.13	7,249.90	
7.00	10	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 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. Total of sub-head 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	Sqm	1.13	7,249.90	
7.00	10 10.13	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 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. Total of sub-head 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	Sqm		7,249.90	

S. Mo. Perioding and home-science calculation in segmed action of action to the S. State of the S. Sta	S. No.	Ref. No	Description	Unit	Quantity	DSP 21 Pato	Amount (Bs.)
7.33 10.30 bit down for participants with outly and glacing class in steef doors. bit down for participants games 9 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 2.27 940.30 2.196.83 8.00 111 FLOORING			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	Unit	Quantity	DSK 21 Kate	Amount (KS.)
Indust Interaction Interaction <t< td=""><td>7.02</td><td>10.20</td><td></td><td>Each</td><td>4.00</td><td>185.20</td><td>740.80</td></t<>	7.02	10.20		Each	4.00	185.20	740.80
Total of sub-head 2.47.783.83 8.00 11 FLOORING 2.47.783.83 8.00 11 2.100.0000 2.47.783.83 8.01 11.13.1 40 mm wide and 4 mm thick meter a) 11.13.1 40 mm wide and 4 mm thick meter a) 11.13.1 40 mm wide and 4 mm thick meter a) 11.13.1 40 mm wide and 4 mm thick meter a) 11.13.1 40 mm wide and 4 mm thick meter a) 11.13.1 60 mm thick in theses of steps addition of the state including rubbing and polishing complete. 2.038.65 4.754.92 8.03 11.31 Extra for Kota stone is and stone in treads of steps and risers using single length up to 1.05 meter. Sqm 1.87 36.35 66.05 8.04 11.32 Extra for Kota stone is addition on treads of steps and discles on the providing and bing bing uprime to the state of the state or providing and bing bing uprime to thick on state as approved by Engineer in-Chargo, in skitting, rises of steps and discles over 12 mm thick the of corner in moter 13.1 of corner 13.2 coares and discles over 12 mm thick the state over 12 mm th			windows, clerestory windows, all complete with :	Sqm	2.27	940.30	2,136.83
B.00 11 FLOORING 11 8.01 11.13 Providing and fixing glass strips in joints of terrazor cement concrete floars. meter 20.00 79.50 1.590.00 8.02 11.27 Kota store slabs 20 mm thick in itsers of steps, skirting, dado and pilars liad on the ingregot bick cement mortar 1.3 (1 cement: 3 coarse sand) and jointed with upy couples. Sqm 2.33 2.088.55 4,774.92 8.03 11.37 Extra for pre finished nosing in treads of steps and rises using single length up to 1.05 metre. Sqm 1.87 368.35 68.05 8.04 11.22 Extra for Kata storel' send store in treads of steps and rises using single length up to 1.05 metre. Sqm 1.87 368.35 68.05 8.04 11.37 Extra for Kata storel' send store in treads of steps and rises using single length up to 1.05 metre. Sqm 1.87 368.35 68.05 8.06 8.31 Providing and fixing lut quality ceramic glazed wall tiles conforming to 18:. 1622 Metre 1.87 368.35 29.590.50 8.06 11.37 Providing and ring for the manufactureri of rist quality conforming to 18:. 1622 Sqm 2.7.83 1.063.45 29.590.50 8.07	/						2.47.793.83
8.01 11.13 Providing and fxing glass strips in joints of terrard cement concrete floors. 9 11.13 40 mm wide and 4 mm thick meter 20.00 73.50 1.580.00 8.02 11.27 Kda atome alabs 20 mm thick min sters of steps, skirting, dado and pilars laid on the meter alabs of the stabs of the stabstof the							_, ,
a) 111.31 40 mm wide and 4 mm thick meter 20.00 79.50 1.590.00 8.02 11.27 Kota store stabs 20 mm thick in fisters of steps, skifting, dado and pillars laid on 12 mm (whengib link centern thart 1:3 (1 centern:1:3 casers sand) and jointed with grey centert slury mined with pigment to match the shade of the slabs, including rubbing and polishing complete. Segm 2.33 2.038.55 4,754.92 8.03 11.31 Extra for pre finished nosing in treads of steps of Kdta stone/ sand store slab. Metre 1.87 157.35 204.56 8.04 11.32 Extra for Kdta store/ sand store in treads of steps and itsers using single length up to 1.05 mete. Segm 1.87 36.35 68.05 8.05 8.31 Providing and fixing ist quality coramic glazed wall tiles conforming to 15: 15622 of thickness to be specified by the manufacture/, of approved make, in all columns, in adving shade complete. Segm 27.83 1.063.45 29.590.50 8.06 11.37 Providing and laying Carmic glazed floot ties of size 300000 mm (thickness to be specified by the manufacture/) of stat quality conforming to 15: 15622. of approved make in al coluras and shades, laid on 20mm thick carmet match 1:4 (1 centert : 4 Carease sand), jointing thirg were areast and and conforming to 15: 15622.7 Sigm Sigm 6.60 6.174.66	8.00	11	FLOORING				-
Accel Note attore sides 20 mm thick in risers of steps, skirling, dado and pillars laid on 12 mm (average) thick cement motar 1.3 (1 cement: 3 carse sand) and jointed with grey cement stury mode with pigment to match the shade of the slabs, including rubbing and polishing complete. Sam 2.33 2.038.55 4.754.92 8.03 11.31 Extin for Krda stone sides of steps of Kda stone/ sand stone slab. Metre 1.87 157.35 204.56 8.04 11.32 Extin for Krda stone stand stone in treads of steps and risers using single length up to 1.05 metre. Sqm 1.87 38.35 68.05 8.05 6.31 Providing and fixing lat quality ceramic glazed wall tiles contorming to 15: 15622 Sqm 27.83 1.063.45 29,500.50 8.06 11.37 Providing reg ming classed floor tiles of state 300000 mm (thickness to papmed maine classes show by this, howy, Grey, Funne Red Row, Nei John K, Wei Jakey, Crey, Funne Red Row, Nei Jakey, Krey, Krey, Funne Red Row, Nei Jakey, Krey, Kr	8.01						
12 mm (average) thick cement motar 1.3 (1 cement: 3 carse sam) and jointed with grey cement slurry model with gement to match the shade of the shade. Including rubbing and polishing complete. Sqm 2.33 2.038.55 4,754.92 8.03 11.31 Exite for pre finished nosing in treads of steps of Kda store/ sand store slab. Including rubbing and polishing complete. Metre 1.87 1.17.25 2294.56 8.04 11.32 Exite for pre finished nosing in treads of steps and faces using single length up to 1.05 metre. Sqm 1.87 38.35 68.05 8.05 8.31 Providing and faing 1st quality ceramic glazed wall lies conterming to 15: 15622 or 3.36, per sqm, including pointing in white cement mode with pigment of motar 1.3 (1 cement : 3 course sand) and painting with grey ceramic slape of the painting shade complete. Sqm 27.83 1.063.45 29,500.50 8.06 11.37 Providing and laying Vortified floor titles of data 300.000 mm (histores to papment mater including pointing pointing pointing the joints with while cement and matching gigment etc., complete. Sqm 6.60 903.60 6,174.96 8.07 11.41 Providing and laying Virified floor titles in different sizes (hickness to be specified by the manufacture), with water absorption lies than 0.08% and conforming to 3.03(sym including group the joints with white cement and matching gigments etc., complete. Sqm 4.39 1.416.65 62.188.02 <td>a)</td> <td>11.13.1</td> <td>40 mm wide and 4 mm thick</td> <td>meter</td> <td>20.00</td> <td>79.50</td> <td>1,590.00</td>	a)	11.13.1	40 mm wide and 4 mm thick	meter	20.00	79.50	1,590.00
Image: state in the state of state is a state in the state of steps and risers using single length up to 1.05 metre. Metre 1.87 1.87 36.35 68.05 8.04 11.32 Extra for Kota stone's and stone in treads of steps and risers using single length up to 1.05 metre. 36.35 68.05 8.05 8.31 Providing and fixing 1st quality ceramic glazed wall tiles conforming to 15: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours shades except upground, bottle green, black of any size as approved make, in all colours shades except upground by the green. black of any size as approved make in colours such as approved make in colours such as withine, write years as and, and jointing with gree cenent stury (g. 3.kgr per sqn, including pointing in white cement thicked of cement income sture (g. 3.kgr per sqn, including pointing in white cement thicked by the manufacturer) of 14 quality conforming to 15: 15622 of approved make, in all colours and shades, laid of 20mm thick cement mortar 1.4 (1 Cement : 4 Carse sand), jointing with gree cement stury (g. 3.kgr sqn including pointing the joints with white cement and matching pigment etc., complete. Sqm in 4.391 1.416.65 62,198.02 8.07 11.41 Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) of 14 quality with grey cement slury (g. 3.kgr sqn including pointing the joints with white cement and matching pigment etc., complete. Sqm in 4.391 1.416.65 62,198.02 8.07 11.41 Providing and laying V	8.02	11.27	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,	Sqm	2.33	2,038.55	4,754.92
up to 1.05 metre. Sqm 1.87 36.35 68.05 8.05 8.31 Providing and fxing lat quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacture), of approved make, in all colcurs, shades except burgundy, bottle green, black of any size as approved by Engineer- in-Charge, in shirting, risers of abeas and dades, our 12 nm thick bed of cement motar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slury @ 3.340 per sgm, including pointing in white cement mixed with pigment of approved make in colcurs such as White conferming to IS: 15622 of approved make in colcurs such as White (conferming to IS: 15622 of approved make in colcurs such as White (conferming to IS: 15622 of approved make in colcurs such as White (conferming to IS: 15622 of approved make in colcurs such as White (conferming to IS: 15622 of approved make in colcurs such as White (conferming to IS: 15622 of approved make in colcurs such as White conferming to IS: 15622 of approved make in colcurs such as White conferming to IS: 15622 of approved make in colcurs and shading to conferming to IS: 15622 of approved make in colcurs and shading to conferming to IS: 15622 of approved make, in all colcurs and shades, laid on 20mm thick cement motar 1:4 (1 cement: 1: 4 coarse sand), jointing with grey @ 3.340 jets mincluding grouting the joints with white cement and matching pigments etc., complete. Sqm 4.391 1.416.85 62.196.02 8.06 11.461 Providing and laying Vitrified tiles in different sizes (thickness to be specified by maudacturer), with water absorption less than 0.08 % and conforming to IS. 15622, of approved make, in all colcurs & shades, inskiting, reser distep, over 12 mm thick bed of cement matar 1:3 (1 cement: 3 c	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
interference interference <td< td=""><td>8.04</td><td>11.32</td><td></td><td>Sqm</td><td>1.87</td><td>36.35</td><td>68.05</td></td<>	8.04	11.32		Sqm	1.87	36.35	68.05
be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, lavor, Grey, Fum Red Brown, laid of 20 mm thick cement mortar 1.4 (1 Cement : 4 Carse 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. Sqm 43.91 1.416.65 62,198.02 a) 11.41 Providing and laying Vitified 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 & shade, in skirting, riser of steps, over 12 mm thick bed of cement motar 1.3 (1 cement: 3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & mortar 1.4 (1 Cement 1.4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & mortar 1.4 (1 Cement 1.4 coarse sand), jointing with grey cearse sand in a coart of steps, over 12 mm thick bed of cement motar 1.3 (1 cement 1.4 coarse sand), jointing with grey cearse sand in a coart of steps, over 1.4 (1 Cement 1.4 coarse sand), application of the subscription less than 0.06 % and conforming to IS. 16620.6 (1.066.40 9.01 11.46.50<	8.05	8.31	(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	Sqm	27.83	1,063.45	29,590.50
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/sqsm 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. 156522, or approved make, in al 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.	8.06	11.37	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	Sam	6.60	935.60	6 174 96
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 1.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 9.00 12 ROOFING 11.16,900.17 9.00 12 ROOFING 11.146.2 1.16,900.17 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 10.00 13 FINISHING 13 FINISHING 14 14 14 14	8.07	11.41	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				
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. Image: Sqm 4.39 mmmm steps of the 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. Image: Sqm 4.39 mmm steps of the 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. Image: Sqm 4.39 mmm steps over 14 mmm steps over 12 mm thick bed of the steps over 12 mm thick bed of the steps over 12 mm thick bed of the steps over 12 mm the steps over 12 mm thick bed of the steps of the steps over 12 mm the steps over 13 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. Image: Image	a)	11.41.2	Size of Tile 600x600 mm	Sqm	43.91	1,416.65	62,198.02
a Total of sub-head 1	8.08	11.46	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 &				
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 10.00 13 FINISHING Image: complete com	a)	11.46.2	Size of Tile 600x600 mm	Sqm	4.39	1,466.50	6,438.67
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 Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and making and finishing the outlet complete. Image: Comparison of the edges and t			Total of sub-head				1,16,900.17
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 Each 4.00 266.60 1,066.40 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 10.00 13 FINISHING 10.00 13 FINISHING 10.00 </td <td>9.00</td> <td>12</td> <td>ROOFING</td> <td></td> <td></td> <td></td> <td></td>	9.00	12	ROOFING				
10.00 13 FINISHING Image: Constraint of the second sec	9.01	12.22	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,	Each	4.00	266.60	- 1,066.40
			Total of sub-head				1,066.40
10.01 13.4 12 mm cement plaster of mix -	10.00	13	FINISHING				
	10.01	13.4	12 mm cement plaster of mix				

a) 19.42 16.11 centret: 6 coarse sand) Sqn 112.22 294.35 33.30.10 5 33.30.10 5 33.30.10 55.461.90 33.40.10 55.461.90 33.40.10 55.461.90 33.40.10 55.461.90 55.47	S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
a) 13.2.2 15.12 1							33,031.66
a) 13.2.2 15.12 1							-
1 1				Sam	163.56	339.10	55,461,98
community community sqn	~/	101012					,
1 1	10.03	13.9					
a) 13.16.1 13.17 carment : 3 fine samt) Sqn 58.42 223.05 14,78.8 10.05 13.37 White washing with lime to give an even shade : - <td< td=""><td>a)</td><td>13.9.2</td><td>20 mm cement plaster</td><td>Sqm</td><td>6.00</td><td>507.85</td><td>3,047.10</td></td<>	a)	13.9.2	20 mm cement plaster	Sqm	6.00	507.85	3,047.10
a) 13.16.1 13.17 carment : 3 fine samt) Sqn 58.42 223.05 14,78.8 10.05 13.37 White washing with lime to give an even shade : - <td< td=""><td>10.04</td><td>13 16</td><td>6mm cement plaster of mix</td><td></td><td></td><td></td><td></td></td<>	10.04	13 16	6mm cement plaster of mix				
a) 13.37.1 New work (three or more coals) Sqm 58.42 32.45 1,985.82 10.06 13.41 Distompering with oil bound washable distomper of approved brand and manufacture to give an even shade : . <				Sqm	58.42	253.05	14,783.88
a) 13.37.1 New work (three or more coals) Sqm 58.42 32.45 1,985.82 10.06 13.41 Distompering with oil bound washable distomper of approved brand and manufacture to give an even shade : . <							-
1 1				Sam	58.42	32.45	1 895 82
manufacture to give an even shade:	α)	10.07.1		- 1			.,000.02
International and the second	10.06	13.41					-
additives of required 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
priming coat of exterior primer applied @ 2.20 kg/10 sgm) Sqm 89.00 1162.35 14.449.11 10.08 13.50.1 Applying priming coat: - <	10.07	13.47					-
a) 13.50.1 With ready mixed pink or Grey primer of approved brand and manufacture on seel galvanised root steel works Sqm 66.00 61.45 4,055.77 b) 13.50.3 With ready mixed red oxide zinc chromate primer of approved brand and manufacture on seel galvanised root steel works Sqm 12.00 56.50 666.00 10.09 13.61 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : sqm 76.40 131.45 10.42.11 10.10 13.65 Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : sqm 60.00 116.10 690.61 10.11 13.65 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 34.20 123.85 41.390.4 11.01 14.85 Total of sub-head Z.09.916.41 Z.09.916.41 Z.09.916.41 11.01 14.85 Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric membrane over root consisting of first coat of bitumen primer Q.20.40 litte per series of bonding material Q.1.20.23 and ads thal ayers of roofing and apyresity provide tranked to 22.56 (sqring membrane APP modified Polymeric mentris and the oplymeric mi	a)	13.47.1		Sqm	89.00	162.35	14,449.15
a) 13.50.1 With ready mixed pink or Grey primer of approved brand and manufacture on seel galvanised root steel works Sqm 66.00 61.45 4,055.77 b) 13.50.3 With ready mixed red oxide zinc chromate primer of approved brand and manufacture on seel galvanised root steel works Sqm 12.00 56.50 666.00 10.09 13.61 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : sqm 76.40 131.45 10.42.11 10.10 13.65 Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : sqm 60.00 116.10 690.61 10.11 13.65 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 34.20 123.85 41.390.4 11.01 14.85 Total of sub-head Z.09.916.41 Z.09.916.41 Z.09.916.41 11.01 14.85 Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric membrane over root consisting of first coat of bitumen primer Q.20.40 litte per series of bonding material Q.1.20.23 and ads thal ayers of roofing and apyresity provide tranked to 22.56 (sqring membrane APP modified Polymeric mentris and the oplymeric mi	10.00	10.50	Applying priming cost:				
b) 13.50.3 With ready mixed red oxide 2nc chromate primer of approved brand and manufacture on steel galvanised ron' 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 : .			With ready mixed pink or Grey primer of approved brand and manufacture on	Sam	66.00	61.45	4 055 70
Interaction Interaction Interaction Interaction Interaction 10.09 13.61 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Sqm 76.40 131.45 10.042.13 0.11 13.65 Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Sqm 76.40 131.45 10.042.13 10.10 13.65.1 Two or more coats on new work Sqm 6.00 115.10 690.61 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 41.390.4 11.01 14.85 Providing and applying white semen course water proofing treatment with APP (Atacic poly-propylene) Quertice Sqm 334.20 123.85 41.390.4 11.01 14.85 Providing and laying in situ seven course water proofing treatment with APP (Atacic poly-propylene) Quertice Q	b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and				
a) 13.61.1 Two or more cats on new work Sqm 76.40 131.45 10.042.11 10.10 13.65 Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Sqm 6.00 115.10 690.61 a) 13.65.1 Two or more coats on new work Sqm 6.00 115.10 690.61 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 41.390.4 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 41.390.4 10.11 13.80 Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm. 2nd, 4th & 6th courses of boonding material @ 1.20 (Rydsm, which shall consist of blum hoPE film film sandwiched on both sides with polymeric mix and the polymeric mix a			manufacture on steel galvanised iron/ steel works	Sqm	12.00	55.50	666.00
1 13.65 Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : 1 <td< td=""><td>10.09</td><td>13.61</td><td></td><td></td><td></td><td></td><td>_</td></td<>	10.09	13.61					_
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 41,390.4 0.11 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 41,390.4 10.01 Total of sub-head Sqm Sqm 334.20 123.85 41,390.4 11.00 22 WATER PROOFING Sqm Sqm 2,09,916.41 11.01 14.85 Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propytene) modified Polymeric membrane 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, 37 and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of first ease of both sides with polymeric mix and the polymeric mix is protected on both side 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) mixed with 2% of integral water proofing compound by weight of c	a)	13.61.1	Two or more coats on new work	Sqm	76.40	131.45	10,042.12
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. 123.85 41,390.4 10.11 13.80 Total of sub-head 2,09,916.4: 11.00 22 WATER PROOFING 2,09,916.4: 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. Th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 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 1:3 fine sand) and finished neat: Sqm 60.00 615.00 36,900.01 11.02 12.19 Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement 1: 3 fine sand) and finished neat: Sqm 60.00 549.05 32,943.01 11.02 12.19.1 With common burnt clay F.P.S. (non modular) brick tiles of class designation 10 Sqm 60.00 549.05	10.10	13.65					
approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. Sqm 334.20 123.85 41,390.4 Image: Complex Surface even and smooth complete. Image: Complex Surface even and even and the polymeric mix is protected on both side with polymeric mix and the polymeric mix is proteceted on both side with polymeric mix errorofing	a)	13.65.1	Two or more coats on new work	Sqm	6.00	115.10	690.60
11.00 22 WATER PROOFING Image: Construction of the second s	10.11	13.80	approved brand and manufacturer, over the plastered wall surface to prepare the	Sqm	334.20	123.85	41,390.44
11.00 22 WATER PROOFING Image: Construction of the second s			Tetal of sub-based				2 00 016 /3
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 36,900.01 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: Sqm 60.00 549.05 32,943.01 12.19.1 With common burnt clay F.P.S. (non modular) brick tiles of class designation 10 Sqm 60.00 549.05 32,943.01							2,03,310.43
(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 (1 cement : 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: Image: square sq	11.00	22	WATER PROOFING				
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 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	11.01	14.85	(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	Sqm	60.00	615.00	36,900.00
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 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	11.02	10 10	Providing and loving brick tiles over mumby reads, grouted with semant meters				
Sqm 60.00 549.05 32,943.00	11.02		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:				
Total of sub-head 69,843.0		12.19.1	vv itn 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

S. No.	Ref. No	T (SANITARY WORKS) 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 :				
		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
						1003.37
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)		Coupler				
a)	12.42.1.2	110 mm	Each	1.00	119.95	119.95
ii)		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		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)		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
1	2	3	4	8	9	(Rs.) 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
2.02	177	Description and fining work having with OL herselects 45 mm O.D.				
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	Draviding and fining Othinkas Other A IO: 204 (40/0) litebox sink as				
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
2.04	17.40					
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 cistem.	Each	1.00	167.25	167.25
			Eddi	1.00	101.20	101.20
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)		Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS:				
		3989	Metre	18.00	1077.40	19393.20
<u>b)</u>	17.35.2	75mm diameter	Madua	7.00	1040.40	7004 70
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. :				
2)	17.37.1	For 100 mm dia. pipe	Each	2.00	308.45	616.90
<u>a)</u> b)	17.37.1	For 75 mm dia. pipe	Each	2.00	304.45	608.90
	11.01.2					
3.09	17. 38	Providing and fixing bend of required degree with access door,				
		insertion rubber washer 3 mm thick, bolts and nuts complete.				
<u>a)</u>	17.38.1	100 mm			F07 00	0000 15
<u>i)</u>		Sand cast iron S&S as per IS - 3989	Each	4.00	597.60	2390.40
<u>b)</u> i)	17.38.2 17.38.2.2	75 mm 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.				
<u>a)</u>	17.39.1	100 mm	F = = ¹	4.00	400 75	4750.00
<u>i)</u>		Sand cast iron S&S as per IS : 3989	Each	4.00	439.75	1759.00
<u>b)</u> i)	17.39.2 17.39.2.2	75 mm Sand cast iron S&S as per IS - 3989	Each	4.00	298.20	1192.80
<u>'</u>						. 102.00
3.11	17.40	Providing and fixing heel rest sanitary bend				
<u>a)</u>	17.40.1	100 mm dia	Faa b	4.00	400 75	400 75
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)		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				
3.12	17.43	with access door, insertion rubber washer 3mm thick, bolts and				
		nuts complete.				
a)	17.43.1	100x100x100mm				
i)		Sand cast iron S&S as per IS - 3989	Each	2.00	731.40	1462.80
b) i)		75x75x75mm Sand cast iron S&S as per IS - 3989	Each	2.00	573.80	1147.60
1)	17.45.1.2		Lach	2.00	575.00	1147.00
3.13	17. 44	Providing and fixing single equal plain junction of required degree				
a)	17.44.1	100x100x100mm				
i)		Sand cast iron S&S as per IS - 3989	Each	2.00	707.30	1414.60
b)		75x75x75mm	Fach	1.00	409.00	409.00
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)		Sand cast iron S&S as per IS - 3989	Each	2.00	611.00	1222.00
b)	17.55.2	75 mm Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	006.00
i)	17.55.2.2	Sand cast Iron S&S as per IS - 3989	Each	2.00	455.40	906.80
3.15	17. 56	Providing and fixing terminal guard :				
a)	17.56.1	100 mm				
i)		Sand cast iron S&S as per IS - 3989	Each	2.00	439.75	879.50
b)	17.56.2	75 mm			044.55	000.40
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)		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
0.47	47.50	Description loop coulted in the sound cost incu/contributedly cost				
	17.58	Providing lead caulked joints to sand cast iron/centrifugally cast	F a ah	10.00	E 40.05	5400 50
a)	17.58.1	100 mm	Each Each	10.00	549.65 466.40	5496.50 4664.00
b)	17.58.2	75 mm	Each	10.00	400.40	4004.00
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				
5.19	17.00	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
2 20	17.61	Cutting abagas in brief, masonry, wells for following diameter and				
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				
0.21	17.00	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)		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				
<u>a)</u>	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	19.16	Providing and fiving brass stop cock of approved quality:				
4.04 a)	18.16 18.16.1	Providing and fixing brass stop cock of approved quality : 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
,						

4.11 18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : Each 4.00 434 a) 18.49.1 15 mm nominal bore Each 4.00 434 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. Each 4.00 708 a) 18.51.1 15 mm nominal bore Each 4.00 708	9.9 589.90 30 707.30 15 399.15 00 894.00 20 340.80
quality (screwed end): Each 2.00 a) 18.17.1 25mm nominal bore Each 1.00 583 c) 18.17.3 40mm nominal bore Each 1.00 588 c) 18.17.3 40mm nominal bore Each 1.00 588 c) 18.18.17.3 40mm nominal bore Each 1.00 707 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 1.00 389 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 4.08 18.21 Providing and fixing uplasticised PVC connection pipe with brass unions : a) 18.21.2.1 15 mm nominal bore Each 4.00 85 4.09 18.22.1 100 mm diameter	9.9 589.90 30 707.30 15 399.15 00 894.00 20 340.80 35 332.70
b) 18.17.2 32mm nominal bore Each 1.00 58 c) 18.17.3 40mm nominal bore Each 1.00 707 4.06 18.18 Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 1 100 399 a) 18.18.3 25 mm nominal bore Each 1.00 399 4.07 18.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main : 2 2 a) 18.20.3 25 mm nominal bore Each 2.00 447 4.08 18.21 Providing and fixing uplasticised PVC connection pipe with brass unions : 2 2 a) 18.21.2 45 cm length 2 2 2 2 i) 18.21.2 15 mn nominal bore Each 4.00 85 4.09 18.22 Providing and fixing UPA staticised PVC connection pipe with brass unions : 2 2 a) 18.21.2 15 mn nominal bore Each 4.00 85 4.09 18.22 Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 2 </td <td>9.9 589.90 30 707.30 15 399.15 00 894.00 20 340.80 35 332.70</td>	9.9 589.90 30 707.30 15 399.15 00 894.00 20 340.80 35 332.70
c) 18.17.3 40mm nominal bore Each 1.00 707 4.06 18.18 Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 1	30 707.30 15 399.15 00 894.00 20 340.80 35 332.70
4.06 18.18 Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 1 1 a) 18.18.3 25 mm nominal bore Each 1.00 399 4.07 18.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main : 1 1 1 a) 18.20.3 25 mm nominal bore Each 2.00 447 4.08 18.21 Providing and fixing uplasticised PVC connection pipe with brass unions : 1 1 a) 18.21.2 45 cm length 1 1 1 i) 18.21.2 15 mm nominal bore Each 4.00 85 4.09 18.22 Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 1 1 a) 18.22.1 100 mm diameter Each 2.00 166 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. 1 a) 18.488 Rectangular tank Per Lite 750.00	15 399.18 00 894.00 20 340.80 35 332.70
a) 18.18.3 25 mm nominal bore Each 1.00 399 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 4.08 18.21 Providing and fixing uplasticised PVC connection pipe with brass unions : Each 2.00 447 4.08 18.21.2 45 cm length - - - - i) 18.21.2.1 15 mm nominal bore Each 4.00 85 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 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 Life 750.00 9 4.11 18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : - - </td <td>00 894.00 20 340.80 35 332.70</td>	00 894.00 20 340.80 35 332.70
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a) 18.49.1 15 mm nominal bore Each 4.00 434 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. Image: Comparison of the compariso	
quality conforming to IS standards and weighing not less than 690 gms.	20 1736.80
	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. Each 2.00 33 i) 18.58.1.1 100 mm nominal dia. Each 2.00 33	20 66.40
	20 00.40
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

ABSIR	ACT FOR I	EARTH CUTTING AND FILLING					
S.No.	DSR-21	Description	No.	Qty	Unit	Rate	Amount
	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.					
		Office Building		1 366.310158	Cum	368.65	135040.239
		Office Building porch		1 14.528896	Cum	368.65	5356.0775
		Guest House		1 130.0464802	Cum	368.65	47941.6349
		TOTAL					188337.952

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

COST OF DEVE	LOPEMNT WORK					Amount	Amount
S.N. DSR-21	Description	Qty	Unit	Rate		on DSR-2021 (In RS.)	on Non-DSR (In RS.)
1 1.1 AOR	Cost of CC Road Cost of CC Road		508.004 Sqm		1693.12	860111.7325	i -
						860111.7325	i
2 AOR	Cost RCC Culvert		2 Nos	17:	3323.763	346647.526	

	of Rate for Culvert						
SI.						RATE	AMOUNT
No. DES	SCRIPTION OF ITEM	DSR-2021	NO	QTY	UNIT	(In Rs.)	(In Rs.)
	avator) / manual means in foundation trenches or drains (not						
	eeding 1.5 m in width or 10sqm on plan) including dressing of						
All k	kind of soil	2.8.1		1 17.1	cum		
Tota	al			17.1	cum	286.85	4905.135
2 dept	th, sides of foundations etc. in layers not exceeding 20cm in th: consolidating each deposited layer by ramming and						
Qty.	. = 25% of them no 1	2.25		1 4.28	cum	253.65	1085.622
3 plint	de excluding the cost of centering and shttering - All work up to th level						
	10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 nominal size)	4.1.10	.	1 2	cum		
				2	cum	6050.65	12101.3
	k work with F.P.S. bricks of class designation 75 in foundation plinth in :						
Cen	nent mortar 1:6 (1 cement : 6 coarse sand)	6.1.2	2	2 1.2	Cum		
			2	2 0.97	Cum		
			2	2 1.47	Cum		
side	e wall		2	2 0.39	Cum		
				4.03	Cum	6658.25	26832.747
5 grac	viding and laying in position cement concrete of specified de excluding						
	cost of centering and shuttering - All work up to plinth level :						
1:1½	/2:3 (1 Cement: 11/2 coarse sand: 3 graded stone aggregate						
20 n	nm nominal size	4.1.2	2	2 0.49	Cum		
				0.49	Cum	7783.65	3813.9885
6 float	nent plaster 1:3 (1 cement : 3 coarse sand) finished with a ting coat of neat cement						
20 n	nm cement plaster	13.9.2	2		Sqm		
			2		Sqm		
				2 1.01	Sqm		
	Culve		4	1.12	Sqm		

SI.						RATE	AMOUNT
No.	DESCRIPTION OF ITEM	DSR-2021	NO	QTY	UNIT	(In Rs.)	(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		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 aggrigate	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

EXTE	RNAL WATE	ER SUPPLY					
S.No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE DSR	RATE NDSR	DSR-2016
		Providing and fixing Chlorinated Polyvinyl					
		Chloride (CPVC) pipes, having thermal					
		stability for hot & cold water supply including					
		all CPVC plain & brass threaded fittings. This					
		includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling					
		& testing of joints complete as per direction of					
1	18.09	Engineer in Charge : External work					
		External work					
	18.9.4	32 mm dia nominal bore	metre	8.768	457.7		4013.1136
	18.9.6	50 mm dia nominal bore	metre	8.846	654.3		5787.9378
	18.9.8	80 mm dia nominal bore	metre	197.27	919.1		181310.857
		Construction of Masonary Chamber 60x60x75					
2	18.33	inside in Brickwork Cement Mortar 1.6					
	40.00.4	With common burnt clay F.P.S.(non modular)			40400 5		00000
	18.33.1	bricks of class designation 7.5	Nos	8	10102.5		80820
		Providing and fixing gun metal gate valve					
		with C.I. wheel of approved quality (screwed					
3	18.17	end):					
	18.17.2	32 mm nominal bore	Each	4	589.9		2359.6
	18.17.4	50 mm nominal bore	Each	2	878.25		1756.5
	18.17.6	80 mm nominal bore	Each	2	2227.6		4455.2
		Providing and fixing G.I. Union in GI pipe					
		including cutting and threading the pipe and					
4	18.46	making long screws etc. complete(New work)					
	18.46.4	32 mm nominal bore	Each	8	409.45		3275.6
	18.46.6	50 mm nominal bore	Each	3	706.7		2120.1
	18.46.8	80 mm nominal bore	Each	1	1061.25		1061.25
		Providing and fixing in position pre-cast R.C.C.					
		manhole cover and frame of required shape					
5	19,19	and approved quality					
	19.19.1	LD- 2.5					
		Rectangular shape 600*450 mm internal					
	19.19.1.1	dimensions	Each	8	1255.25		10042
		TOTAL SECTION					297002.1584
							297002.1304
				1			

	RACT OF F	STIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMS EXTERNAL SEWER LINE				
		DESCRIPTION	UNIT	QTY	RATE DSR	AMOUNT
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	Pipes cables etc. exceeding 80 mm dia. But not exceeding 300mm				
	2.10.1.2	dia.	Mtr	261.37	417.35	109082.7
2	<u>19.6</u> 19.6.2	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 : 150 mm dia. R.C.C. pipe	Mtr	13.162	493.1	6490.1
	19.6.3	250 mm dia. R.C.C. pipe	Mtr	248.212		201337.1
5	13.0.0		1111	240.212	011.10	201337.
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	70369.0
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	16096.5
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 coarse sand coarse sand : 4 graded stone aggregate 20 mm nominal size) finishd with a floating coat of neat cement coarse sand : 4 graded stone aggregate 20 mm nominal size) finishd with a floating coat of neat cement complete as per standard design				
		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				
	19.7.1 19.7.1.1	weight of frame 15 kg) With common burnt clay F.P.S.(non modular) bricks of classic designation 7.5	each	8	11687.1	934
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) With common burnt clay F.P.S.(non modular) bricks of classic				
	19.7.3.1	designation 7.5	each	3	30197.95	9059
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	162
T						
9	19.8.2	size 120 X 90 cm				1
9	19.8.2	size 120 X 90 cm designation 7.5				

S.N.	DSR-2021	DESCRIPTION	UNIT	QTY	RATE DSR	AMOUNT
		Providing and fixing square mouth S. W. Gully trap class SP-1				
		complete with C.I. grating brick masonry chamber with water				
		tight CI cover with frame of 300 x 300 mm size (inside) the weight				
		of cover to be not less than 4.50 kg and frame to be not less than				
10	19.4	2.70 kg as per standard design				
	19.4.3	180 x 150 mm. size P type				
		designation 7.5				
	19.4.3.1	-	each	5	2534	12670
11	19.16	Providing M.S. foot rests Orange colour Safety footrest				
	19.16	With 20x20 mm square bar	each	12	487.1	5845.2
		TOTAL OF SUB HEAD				629544.659

	DSR-21	ER LINE MEASUREMENT SHEET	Unit	Nos		L	В	Н	Qty
IN.	DSR-21			INUS		L	D		
1	2.10.1.2	Excavation for Pipe and Cable							
		Qty from Pipe 150mm	Rmt	1	1	13.162			13.1
		Qty from Pipe 250mm	Rmt	1	1	248.212			248.2
		-	_						
		Total							261.3
2	19.6.2	RCC Pipe 150 mm	_						
		Office Building	Rmt	1	1	1.35			1.3
			Rmt	1	1	3.74			3.7
			Rmt	1	1	2.822			2.82
		Guest house	Rmt	1	1	5.25			5.2
									13.16
3	19.6.3	RCC Pipe 250 mm							
	13.0.5								
		Building to STP	Rmt	1	1	12.95			12.9
			Rmt	1	1	16.046			16.04
			Rmt	1	1	97.768			97.76
			Rmt	1	1	10.843			10.84
			Rmt	1	1	18.672			18.67
			Rmt	1	1	61.976			61.97
			Rmt	1	1	29.957			29.95 248.2
			_						240.2
4	4.1.10	PCC 1:5:10 for RCC Pipe							
		for bed concrete							
		Qty from Pipe 150mm	Cum	1	1	13.162			
		Qty from Pipe 250mm	Cum	1	1	248.212	0.45	0.1	11.1
									11.6
5	5.9.1	C/S for bed/side concrete							
		Qty from Pipe 150mm	Sqm	1	2	13.162		0.1	
		Qty from Pipe 250mm	Sqm	1	2	248.212		0.1	49.6
		Total							52.2
									02
		Rectangular ManHole							
6	19.7.1.1	Man Hole 90x80x45cm							
0	19.7.1.1	75% of All Rectangular MH	Nos	1	1	10	0.75		
			1103	<u> </u>		10	0.70		
- 7	19.7.3.1	Man Hole 120x90x90cm	_						
1	19.7.3.1	25% of All Rectangular MH	Nos	1	1	10	0.25		
			1103	- ·		10	0.20	,	
	10.0.4.4	Extra for Markele 00:00							
8	19.8.1.1	Extra for Manhole 90x80 cm Total of Man hole 90x80	Rmt	1	1	8	0.25		
					- 1	0	0.25		
9	19.8.1.1	Extra for Manhole 120x90 cm							
		Total of Man hole 90x80	Rmt	1	1	3	0.25		0.7
40	10 4 2 4		_						
10	19.4.3.1	Gully Trap 300x300mm	Nos	1	1	5			
			1105		1	5			

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S.N.	DSR-21	Items	Unit	Nos		L	В	Н	Qty
11	19.16	Foot rest orange Colour							
		Manhole 90x80 cm	Nos	1	1	9			9
		Manhole 120x90 cm	Nos	1	1	3			3
									12

	IMINARY ESTIMATE OF PROPOSED RI	EGIONAL OF	-FICE B	UILDING AT U	JMSAWLI, EAST						
	I HILLS DISTRICT, SHILLONG.										
BILL (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						

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		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				
2					
	100Amp MCCB TP 35 KA	1	Nos		
	Indication light R,Y,B		Nos		
	BUS-BAR FEEDERS				
	150Amp Aluminum bus-bar TPN	1	Set		
	Out going	· ·			
	63Amp MCB TPN 10KA	3	Nos		
	63Amp MCB TPN 10KA (SPARE)		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

STIMA	٩ΤΕ	FOR EXTERNAL ELECTRIFICATION				
No.		Name of Item	Qty	Unit	Rate	Amount
		Supply installation, testing and commissioning of external post top				
1		lantern with following and complete as required.				
	a)	6m high (5.0m above ground) 65mm dia GI pole as approved, adopting socket at top for fixture mentioned below, base plate 300x300x6mm and provision for mounting junction box etc 1 set	13	Nos	11070	1439
	c)	Erection of Pole in cement concrete 400x400x1000mm deep 1:3:6 ratio cement concrete foundation including excavation , refilling, secured with holding clamps, bolts, nuts, alighnment of poles casting etc. including 100 mm thick lean concrete shall be provided at the bottom.	13	Set	5150.25	66953.2
	d)	LED type 50 Watt (Street Light) light fittings of all types with all accessories.	13	Nos	7897.5	102667
		Suitable aize Control box with 1 no incoming and 2 non-outgoing				
	f)	Suitable size Control box with 1 no. incoming and 2 nos. outgoing terminals and 2 nos. tap-out terminal with 1 no.5A HRC fuses complet 1 set	13	Nos	1350	175
	/		_			
	g)	Suitable number (S) 40mm dia Class-B GI Pipes(s) from above control box to upto 0.5 meter below ground level for power cable entry.	13	Nos	742.5	9652
	-	LT CABLES				
2		Supply of following size of 1.1 KV grade multicore aluminium cunductor PVC sheathed armoured cable as per IS 1554.				
		3.5 Core 150 Sqmm	30	Meter	818.92	2456
		3.5 Core 95 Sqmm	293.46	Meter	457.84	134357.72
		4 Core 25 Sqmm	416	Meter	381.5648	158730.95
		4 Core 10 Sqmm	398	Meter	265.8776	105819.28
		2 Core 16 Sqmm	155	Meter	235.4336	36492.2
		2 Core 10 Sqmm	410	Meter	200.9304	82381.4
		 Total				002002
						883082.
	\vdash					

	ATE FOR EX	TERNAL ELECTRIFICATION	-			
S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
1	5.2	G.I. Earth pipe electrode with salt/charcoal: 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	5484
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	560
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	215
		LT CABLES LAYING				
4		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		387	53367
	7.1.2	Size exceeding 35 Sqmm not exceeding 95 sqmm	293.46		405	118851
	7.1.3	Sqmm	30	Rmt	422	1266
5	9.1	Supplying and making end termination with brass comperession 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.		Nos	241	24
	9.1.3	2.00 x 16 sq.mm.		Nos	256	153
	9.1.34	4.00 x 25 sq.mm.		Nos	315	31
	9.1.23	3.50 x 70 sq.mm. 3.50 x 120 sq.mm.		Nos	468	280
	9.1.25 9.1.29	3.50 x 240 sq.mm.		Nos Nos	613	12:
	3.1.29		2	1105	1027	20
		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 dispecting of surplus excavated soil as directed				
6	2.1	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 :				
6	2.1	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,				

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DSR-22	Name of Item	Qty	Unit	Rate	Amount
19.6	cement : 2 fine sand) including testing of joints etc.				
19.6.2	150 mm dia. R.C.C. pipe	33	Meter	493.1	16272.3
	Total				771005.15
	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. 19.6 complete : 19.6.2 150 mm dia. R.C.C. pipe	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. 19.6 complete : 19.6.2 150 mm dia. R.C.C. pipe 33	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. 19.6 complete : 19.6.2 150 mm dia. R.C.C. pipe 33 Meter	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. 19.6 complete : 19.6.2 150 mm dia. R.C.C. pipe 33 Meter 493.1

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG. Abstract for Retaining Wall Height 3.0 Meter

		ning Wall Height 3.0 Meter				
S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
		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				
1	2.8	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	12.36	Cum	6050.65	74796 024
	4.1.10	mm nominal size)	12.30		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 sand approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose.	119.58	Sqm	285	34080.3
5 a	<u>5.33</u> 5.33.1	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 All works upto plinth level	81 72	Cum	7997.3	653539.356
	5.33.2	All works above plinth level upto floor V leve	23.92		10080.15	
	-					
6	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete. Walls (any thickness) including attached pilasters, butteresses,	68.95	Sqm	307.95	21233.1525
7	5.9.2	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. 75 mm diameter	36	metre	319.75	11511
		/ Smin 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
						0440000.070
		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

Abstra	ct for Retai	ning Wall Height 4.0 Meter				
S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
<u>3.iv.</u> 1		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.				Amount
	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
			101.07		203	40073.33
5		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		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. Walls (any thickness) including attached pilasters, butteresses,	75.73	Sqm	307.95	23321.0535
7	5.9.2	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.				
0	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. 75 mm diameter	48.6	i metre	319.75	15539.85
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

		ning Wall Height 5.0 Meter				
S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
		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				
1	2.8	directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	191.98	Cum	286.85	55069.463
		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				
2	2.25	up to 50 m and lift up to 1.5 m.	131.65	Cum	253.95	33432.5175
		Providing and laying in position cement concrete of specified grade				
		excluding the cost of centering and shuttering - All work up to plinth				
3	4.1	level:				
		1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40				
	4.1.10	mm nominal size)	9.08	Cum	6050.65	54939.902
		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				
4	24.2	directions sand approval of Engineer-in-charge.				
		The elevational area of the scaffolding shall be measured for				
		payment purpose.	171.4	Sqm	285	48849
		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				
5	5.33	of Engineer-in-charge				
a	5.33.1	All works upto plinth level	60.51		7997.3	
b	5.33.2	All works above plinth level upto floor V leve	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, butteresses, plinth and string courses etc.	383.94	Sam	669.55	257067.027
	0.0.2		000.04		000.00	201001.021
		Reinforcement for R.C.C. work including straightening, cutting,				
8		bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	7125.05	Kg	89.65	638760.7325
		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				
9	12.41.1	expansion, (i)Single socketed pipes.	30.6	metre	319.75	9784.35
		75 mm diameter				
40	612	Brick work with common burnt clay F.P.S. (non modular) bricks of				
10	6.1.2	class designation 7.5 in foundation and plinth in:	1			

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
		15 mm cement plaster on rough side of single or half brick wall of				
11	6.1.2	mix :				
		1:6 (1 cement: 6 coarse sand)	69.58	Sqm	339.1	23594.578
		DSR Total				2332401.773

		STIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UI ining Wall Height 6.0 Meter	MSAWLI, EAS	T KHA	SI HILLS DISTR	ICT, SHILLONG.	
Absila							
S.N.	DSR-21	Description	Qty	Unit	Rate	Amount	
1	28	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.					
- 1	2.8.1	All kinds of soil.	193.46	Cum	286.85	55494.001	
		Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in					
2	2.25	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 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.	176.4	Sqm	285	50274	
5		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					
	5.33.1	All works upto plinth level	60.27		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. Walls (any thickness) including attached pilasters, butteresses,	74.08	Sqm	307.95	22812.936	
7	5.9.2	plinth and string courses etc.	388.08	Sqm	669.55	259838.964	
8		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	Кg	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. 75 mm diameter	26.1	metre	319.75	8345.475	
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	

ESTIM	ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EAST KHASI HILLS DISTRICT, SHILLONG.												
Abstrac	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												
	Construction of RR Stone Masonary Wall 1.00mtrs												
1	height	1	13668.85386	43.3	591861.3722								
	Construction of RR Stone Masonary Wall 2.00 mtrs												
2	height	1	18873.50471	115.87	2186872.991								
	Total				2778734.363								

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		POSED REGIONAL OFFICE BUILDING AT UMSAWLI	EAST KHA	ASI HILI	S DISTRIC	T, SHILLONG.	
	t for Retaining	Wall Height 1.50 Meter					
5031 L 6. No.	DSR-21	DESCRIPTION	Quantity	UNIT	Rate	Total Amount (Da	``
<u>5. NO.</u>		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 9 excavated soil as directed, within a lead of 50 m.	Quantity		Nate	Total Amount (Rs	.)
	2.9.1	Ordinary rock	0.72	Cum	523.5	376.92	
2	2.	Excavation work by mechnical 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 9 as directed, within a lead of 50m.					
	2.9.1	Ordinary rock	0.72	Cum	523.5	376.92	
3	2.2	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 5 50 m and lift up to 1.5 m.	0.753	Cum	253.95	191.22435	
4	4.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shttering - All work up to plinth level 1:5:10 (1 cement : 5 coarse sand : 10 graded stone					
	4.1.10	aggregate 40 mm nominal size)	0.18	Cum	6050.65	1089.117	
5	4.2.3	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 2 finishing: 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.147	Cum	9375.2	1378.1544	
6	5.2	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position 2 and binding all complete					
0	5.22.6	Thermo-Mechanically Treated bars.	17.30925	KG	89.65	1551.774263	
7	7.	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 1 plinth level with :					
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.027	Cum	6653.45	6833.09315	
8	7.	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, 2 ceiling level and the like.					
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)		Cum	8275.7	1166.8737	

		Pointing on stone work with cement mortar 1:3 (1					
9	13.33	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	
		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,					
11	12.41	leaving 10mm gap for thermal expansion,					
		Single socketed pipes.					
	12.41.1	75mm diametre	0.58	Meter	213	123.54	
		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					
12	(24 5+24 6)/2	of Engineer-incharge.	0.74	Cum	310.05	229,437	
12	(24.3+24.6)/2		0.74	Cum			
					Total	13668.85386	

ESTIM	ATE OF PRO	POSED REGIONAL OFFICE BUILDING AT UMSAW	/LI, EAST KHA	ASI HILI	S DISTRIC	T, SHILLONG.	
Abstract	for Retaining	Wall Height 2.0 Meter					
COST E	STIMATE						
						Total Amount	
5. No.	DSR-21	DESCRIPTION	Quantity	UNIT	Rate	(Rs.)	
		Earth work in excavation by mechanical means					
		(Hydraulic excavator) / manual means in foundation	1				
		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 getti	ng				
1		out the excavated soil and disposal of surplus 9 excavated soil as directed, within a lead of 50 m.					
1	2.9.1	All kinds of soil	0.955	Cum	522.5	447 5025	
	2.9.1		0.855	Cum	523.5	447.5925	
		Excavation work by mechnical means (Hydraulic					
		excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sgm 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 so	oils				
2		.9 as directed, within a lead of 50m.					
	2.9.1	Ordinary rock	0.855	Cum	523.5	447.5925	
		Filling available excavated earth (excluding rock) in					
		trenches, plinth, sides of foundations etc. in layers	not				
		exceeding 20cm in depth: consolidating each					
2		deposited layer by ramming and watering, lead up 25 50 m and lift up to 1.5 m.		C	252.05	007 004475	
3	Z.		0.9365	Cum	253.95	237.824175	
		Providing and laying in position cement concrete of	:				
		specified grade excluding the cost of centering and					
4	4	1 shttering - All work up to plinth level					
		1:5:10 (1 cement : 5 coarse sand : 10 graded stone					
	4.1.10	aggregate 40 mm nominal size)	0.234	Cum	6050.65	1415.8521	
		Providing and laying cement concrete in retaining					
		walls, return walls, walls (any thickness) including					
		attached pilasters, columns, piers, abutments, pilla	rs,				
		posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain					
		window sills, fillets, sunken floor, etc., up to floor five	e				
		level, excluding the cost of centering, shuttering an					
5	4	.2 finishing:					
		1:2:4 (1 Cement : 2 coarse sand : 4 graded stone					
	4.2.3	aggregate 20 mm nominal size)	0.147	Cum	9375.2	1378.1544	
		Reinforcement for R.C.C. work including					
		straightening, cutting, bending, placing in position					
6	-	22 and binding all complete					
	5.22.6	Thermo-Mechanically Treated bars.	17.30925	KG	89.65	1551.774263	
		Pondom rubblo mesons with hard store in					
		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					
7		1 plinth level with :					
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.3195	Cum	6653.45	8779.227275	
		Pondom rubble mesone with hard store in		<u> </u>			
		Random rubble masonry with hard stone in superstructure above plinth level and upto floor five					
		level, including leveling up with cement concrete	1				
		1:6:12 (1 cement : 6 coarse sand : 12 graded stone					
		1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills,	•				
8	7.2.1	1:6:12 (1 cement : 6 coarse sand : 12 graded stone	0.423		8275.7	3500.6211	

		Pointing on stone work with cement mortar 1:3 (1					
9	13.33	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	
		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,					
11	12.41	leaving 10mm gap for thermal expansion,					
		Single socketed pipes.					
	12.41.1	75mm diametre	0.58	Meter	213	123.54	
12		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	

	FUBE WELL INCLUDING SUBMERSIBILE PUMP	1					AMOUNT NON
	DESCRIPTION OF ITEM Mobilization & Demoblilization of drilling rig at site along with other related equipments	DSR-21 NDSR	QTY 1	UNIT No	RATE 30000	AMOUNT DSR	DSR 300
2	Geophysical study for calculations of zone wise aquifer characteristics along with the designs of tube well etc.	NDSR	1	No	40000		400
	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		100
	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		300
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.						
	All types of soil	23.1.1	00	NA	502.05	5200 <i>1</i> 5	
	300 mm dia 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.	23.1.1.1	90		592.05	53284.5	
	All types of soil 300 mm dia (90 to 150 mts)	23.2.1 23.21.1	10	M	690.7	6907	
	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					0	
	etc. all complete, for all depths, as per direction of Engineer -in-charge.					0	
	200 mm nominal size dia	23.3.3	70	м	971.3	67991	
	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					
	200 mm nominal size dia	23.11.3	30	М	2194.85	65845.5	
	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I). 200mm dia	23.15 23.15.3		Nos	308.55	617.1	
	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.						
	200 mm clamp	23.14.3	3	Nos	1827	5481	
	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per						
7	actual requirement, all complete as per direction of Engineer-in-charge.	23.8	35	Cum	1479.25	51773.75 0	
	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	
			1	I	_		
8	Supply & installation of submersible pump of make KSB 7.5 HP with control panel, support wire etc. complete.	NDSR	1	Set	75000		75

S.N.	DESCRIPTION OF ITEM	DSR-21	QTY	UNIT	RATE	AMOUNT DSR	AMOUNT NON- DSR
0.14.		001(-21	QTT				
	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
	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 botton 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
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. 200 mm nominal size dia	23.4	70	M	1099.25	76947.5	
	TOTAL for 1 no.					521346.1	241360.4

PRELIMI	NARY ESTIMATE OF PROPOSED REGIONAL (DFFICE BUILDING AT UMSAWLI, EAST K	THASI HILLS DIST
SOIVIIVIAN			
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

		TIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI	, EAST KH	IASI HILLS DIST	RICT, SHILLO	DNG.
COST E	ESTIMATE (UGWT)	1	1		
S No	DSR.Rf. 2021	Description	Linit	Quantity of LIC	Poto	Amount (Ba)
S. No.	2021	Description	Unit	Quantity of UG	Rale	Amount (Rs.)
		SCHEDULE A:- DSR ITEMS				
1	2	EARTH WORK				
		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				
1.01		Engineer-in-charge.				
a)	2.6.1	All kinds of soil	Cum	186.4	205.45	38295.8
		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				
1.02	2.25	50 m and lift upto 1.5 m.	Cum	112	253.95	28442
					200.00	20112
		Extra for every additional lift of 1.5 m or part thereof in excavation /				
1.03	2.26	banking excavated or stacked materials.				
a)	2.26.1	All kinds of soil.				
))		1.5 m to 3.0 m	Cum	64	104.5	668
)		3.0 m to 4.5 m	Cum	60	209	1254
,						
		Supplying and filling in plinth with sand under floors, including watering,				
1.04	2.27	ramming, consolidating and dressing complete.	Cum	74.4	2161.2	160793.2
		Total of sub-head				246759.5
2	4	CONCRETE WORK				
0.04		Providing and laying in position cement concrete of specified grade				
2.01	4.1	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				
a)	4.1.10	40 mm nominal size).	Cum	5	6050.65	30253.2
a)	4.1.10		Cum		0000.00	50255.2
		Total of sub-head				30253.2
3	5	REINFORCED CEMENT CONCRETE				
0.04		Centering and shuttering including strutting, propping etc. and removal				
3.01	5.9.1	of form for all heights :	Sam	12	207.05	3695
a)	0.0.1	Foundations, footings, bases of columns, etc. for mass concrete Walls (any thickness) including attached pilasters, butteresses, plinth	Sqm	12	307.95	3095
b)	5.9.2	and string courses etc.	Sqm	213	669.55	142614.1
))	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	47	766.55	36027.8
/				1		
		Steel reinforcement for R.C.C. work including straightening, cutting,	1			
3.02	5.22	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	749384.3
a)	0.22.0	Thermo-mechanically freated bars of grade Fe-5000D of 1101e.	Nilogram	0009	09.00	149304.3

	DSR.Rf.					
S. No.	2021	Description Providing and laying in position machine batched and machine mixed	Unit	Quantity of UG	Rate	Amount (Rs.)
		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				
3.03	5 33	mix is payable/recoverable separately).				
0.00	0.00	(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
						1000010.00
4	6	BRICK WORK				
		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				
4.01	6.4	all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	10	8288.35	82883.5
		Tabel of such hand				
		Total of sub-head				82883.5
5	11	FLOORING				
		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				
5.01	8.31	complete.	Sqm	104	1063.45	110598.8
		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				
	44.07	pointing the joints with white cement and matching pigment etc.,			005.0	05550.0
5.02	11.37	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 13.16.1	6mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	Sqm	9	253.05	2277.45
6.04		White washing with lime to give an even shade :				
	13.37.1	New work (three or more coats)	Sqm	9	32.45	292.05
		Distempering with oil bound washable distemper of approved brand and	1			
6.05	13.41	manufacture to give an even shade :				
	10 11 1	New work (two or more coats) over and including water thinnable priming				
	13.41.1	coat with cement primer	Sqm	34	162.55	5526.7
		Finishing walls with Premium Acrylic Smooth exterior paint with Silicone	1			
6.06	13.47	additives of required shade:				
		New work (Two or more coats applied @ 1.43 ltr/10 sqm over and				
	13.47.1	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				
		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				
7.01		concrete etc. complete :				
	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Metre	26	285.6	7425.6

0 N	DSR.Rf.					
S. No.	2021	Description	Unit	Quantity of UG	Rate	Amount (Rs.)
		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, reservior, 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.				
7.02 a)	22.23 22.23.1	For vertical surface two coats @0.70 kg per sgm 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
						37300.0

PRELIMINARY ESTIMATE OF PROPOSED REGIONAL OFFICE BUILDING AT UMSAWLI, EA								
Cost of Septio	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.

		RCC SEPTIC TANK 150 USERS	Otv		Bota	Amount
۱.	DSR-21	Description	Qty	Unit	Rate	Amount
		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				
1	2.8	m.				
	2.8.1	All kinds of soil. 0.00-1.50m	123.64	Cum	286.85	35466.2
		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				
	0.00.4	and disposal of surplus excavated soil as directed, within a lead of 50				
	2.26.1	m.		-		
_		All kinds of soil. 1.50-3.00m	56.2	Cum	104.5	5872
\neg		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				
3	2.25	watering, lead up to 50 m and lift up to 1.5 m.	30.91	Cum	253.95	7849.
		Providing and laying in position cement concrete of specified				
		grade excluding the cost of centering and shuttering - All work up				
4	4.1	to plinth level :				
		1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40				
!	4.1.10	mm nominal size).	2.56	Cum	6050.65	15489.
		Providing and laying in position specified grade of reinforced				
		cement concrete excluding the cost of centering, shuttering,				
5	5.1	finishing and reinforcement - All work up to plinth level:				
		1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20				
	5.1.2	mm nominal size)	22.24	Cum	8364.2	186019.
		Centering and shuttering including strutting, propping etc. and				
6	5.9	removal of form for:				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	8.9	Sqm	307.95	2740.
		Suspended floors, roofs, landings, balconies and access platform.				
7	5.9.3	with water proof ply 12mm thick.	145.2	Sqm	766.55	111303.
_		with water proof ply 12 mm thick				
8	5.9.5		7 41	Sqm	608.35	4507.
			1			1007.
	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.
		Reinforcement for R.C.C. work including straightening, cutting,				
10						
	5.22.6	Thermo-Mechanically Treated bars.	2224	Kg	89.65	199381
+		Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4	1			
		graded stone aggregate) finished with a floating coat of neat				
		cement, including				
		cement slurry, but excluding the cost of nosing of steps etc.				
11	11 २	complete.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	18.48	Sqm	545	1007
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.
				1		

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
		Providing and fixing in position pre-cast R.C.C. manhole cover and	-			
13	19.19	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. 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

		LANDS	CAPING , PLA	NTS , PLANTERS				1
S.No.	Horticulture DSR-20 Code	Description of Item		Quantity	Rate	DSR-Amount	Unit	MR.Amount
	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	sam	
	2.20.1	Rough dressing the trenched ground		014.0400	20.10	20102.00000	oqiii	
	2.5	including breaking clods. Uprooting weeds from the trenched area		914.8455	1.5	1372.26825	sqm	
		after 10 to 15 days of flooding with water including disposal of uprocted vegetation. Supplying and stacking of good earth at site		914.8455	4.9	4482.74295	sqm	
	22	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	
		in stacks will be reduced by 20% for Supprying or doing manue at site morodoring royalty, carriage, loading-unloading with all leads and lifts (the dung manure measured in stacks will be reduced by 8% for payment). Screened moogin seve or 1.5. designation		101.20	515.6	10133.100	Cum	
		4.75 mm spreading or sludge, dump manure and/or		13.723	319.9	4389.9877	cum	
		good earth in required thickness as per direction of officer-in-charge (cost of sludge,		13.723	52.35	718.39905	cum	
	1.0	dump manure and/ or good earth to be paid wixing earth and studge or manure in the required proportion specified or directed by						
		the Officer-in-charge		13.723	36.55	501.57565	sqm	
	2.7	Fine dressing the ground. Providing and taying ineeigin/mexican grass		914.8455	3.7	3384.92835	sqm	
0	2.14.2	existing ground prepared with proper level and ramming with tools wooden (Dhurnos) and than rolling the surface with light roller make the surface smoothen and light waterning with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge. Digging or noises in oroinary soir and remining 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		914.8455	214.4	196142.8752		
	2.14.1	Holes 1.2 m dia and 1.2 m deep		45	335.5	15097.5	each	
	2.14.2	Holes 90 cm dia. and 90 cm deep Preparation or beds for neoging 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		45	143.1	6439.5	each	
1	2.13	directed, within a lead of 50 m, lift up to 1.5 Supply and stacking of Delonix regia		13.723	222.85	3058.17055	Cum	
2	7.24	(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	
3	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		1

	ER HARVESTI	NG	
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 RWH S. No. DSR 2021 R Description Unit R.W.H Rate (Rs) Amount (Rs.) 2 EARTH WORK 1 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 up to 50 m and lift up to 1.5 m, as directed by 1.01 2.6 Engineer-in-charge. 2.6.1 All kinds of soil cum 19 205.45 3903.55 a) 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-1.02 2.7 incharge. 28.5 412.95 11769.075 2.7.1 Ordinary rock cum a) b) 2.7.3 Hard rock (blasting prohibited) cum 47.5 1184.3 56254.25 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 1.03 2.25 50 m and lift upto 1.5 m. 82 253.95 20823.9 cum Extra for every additional lift of 1.5 m or part thereof in excavation / 1.04 2.26 banking excavated or stacked materials. a) All kinds of soil. 2.26.1 1.5m to 3.0m cum 24 104.5 2508 a)i 95258.775 Total of sub-head **4 CONCRETE WORK** 2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth 2.01 4.1 level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 4.1.3 20 mm nominal size). cum 1 7365.15 7365.15 a) 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 6326.05 25304.2 4.1.8 40 mm nominal size) 4 b) cum 1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 6326.05 6326.05 4.1.10 40 mm nominal size). 1 c) cum 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 2.02 4.13 of cloth lightly soaked in kerosene oil. 87 113.85 9904.95 Sqm Total of sub-head 48900.35 5 REINFORCED CEMENT CONCRETE 3 Centering and shuttering including strutting, propping etc. and removal 3.01 5.9 of form for all heights 5.9.3 Suspended floors, roofs, landings, balconies and access platform 766.55 4599.3 6 sqm c) Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. 3.02 5.22 5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more. 420 89.65 kilogram 37653

a)

						R.W.H
S. No.	DSR 2021 R	Description	Unit	R.W.H	Rate (Rs)	Amount (Rs.)
		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 considered in this item is @ 330 kg/cum."Excess/ less cement				
3.03	5.33	used as per design mix is payable/recoverable separately).				
0.00	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	0					
		Brick work with common burnt clay modular bricks of class designation				
4.01		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		Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
4.02	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	2	837.85	1675.7
						10/0.7
		Total of sub-head				57175.2
5	13	FINISHING				
		To this centeric plaster on the rough side of single of that block wait of				
5.01		mix :				
a)	13.2.2	1:6 (1 cement: 6 fine sand)	sqm	87	324.3	28214.1
		Total of sub-head				28214.1
						20214.1
6	19	SEWARAGE & DRAINAGE				
		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				
6.01	19.6	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
,						
		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				
6.02	19.15	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
6.00	10.40	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
6.03 a)	19.19	L D- 2.5			-	
a) 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				
· · · ·						
		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				
7.01	23.1	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.)
0.110.	0011202111		01			
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				
S.No.	DSR-18	Abstract Description	Quantity	Unit	Rate	Amount
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) /	39.86	Cum	252.3	
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: 35 mm thick including ISI marked				
	9.21.1	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. Fixed to steel windows by welding	70.0	V -	1/5.0	12001 72
	9.48.1	I IVER IO SIECI MILIOMS DA MEIRIID	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
	12,11,2	1				
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	Prenimun 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
<u> </u>				1		

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				
	Reception Table1800 x 1050 x 900	Nos	1	195000	
	Single Seater Sofa	Nos	2	32000	
	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	
10	Alimirah - 1740x750x2900	Nos	1	57500	57500
	Ground Floor - Library				-
11	Table - 3580x600x750	Nos	2	52850	105700
	Chairs	Nos	20	11800	236000
	Books Almirah (3580x600x2900)	Nos	1	135950	135950
10	First Floor - Working Hall		· ·	100000	-
14	Wardrobe - 1740x750x2900	Nos	4	85000	
	Workstation Table - 1200x685x750	Nos	20	58500	
	Chairs	Nos	20		
	Drawer - 161x750x750	Nos	20	10500	210000
17	First Floor - EE Room	1105	20	10500	- 210000
10	Table - (2315x1335x750)	Nos	1	17500	
					114000
19	Chairs	Nos	4	28500	114000
	First Floor - Asst. Commissioner - A.CAD	N 1		457500	-
	Table - (2315x1335x750)	Nos	2	157500	315000
21	Chairs	Nos	8	28500	228000
	First Floor - Strore Room				-
22	Almirah 1740x750x2900	Nos	1	57500	57500
	Second Floor - Asst. Commissioner Room				-
	Table - (2315x1335x750)	Nos	2	157500	315000
	Chairs	Nos	8	28500	
	Three Seater Sofa	Nos	2	55500	
26	Center Table (900x450x450)	Nos	2	22115	
27	Almirah 1740x750x2900	Nos	2	57500	115000
	Second Floor - Conference Room				-
	Table - 5500x1500x750	Nos	1	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
	Chairs	Nos	4	18900	
36	Almirah 1740x750x2900	Nos	1	57500	57500
	Second Floor - PA Room				-
37	Table - 1500x750x750	Nos	1	42300	42300
	Chairs	Nos	3		4740
	Entertainment/Recreation Room			10000	
30	Single Seater Sofa	Nos	4	32000	128000
	Three Seater Sofa	Nos	4	62000	6200
	Table - 1200x685x750	Nos	1	35800	35800
	Pool Table	Nos	2	250000	50000
43	Coffee Machine/Water Cooler Table	Nos	1	50000	50000
		Basic Am	iount	1	690880

		1.1.14	0
. No	Description	Unit	Quantit
	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 groumets (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 groumets (Wipro Patented	N	
	1 Squeezee) shall be provided on main or side table as specified by customer.	Nos	_
	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).		
	2 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	
	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).		
:	3 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	
	Center Table (000x (F0x (F0)) Supplying 8 placing center table with an everall size 000mm X (F0mm X (F0mm The tap		
	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		
	4 with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.	Nos	
	4 With 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor.	Nos	
		Nos	
	Reception Chair Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically	Nos	
	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	Nos	
	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	Nos	
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	 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/m³ 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 til 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 beinjection 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 5 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. Ground Floor - Care Taker and Driver Room Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and 3" foam (32D 23D 2) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal weave and 3" foam (32D 23D 2) with polyester polyfill outer layer (100 gsm). Outer finish: superior quality leatherett stitched with nylon bonded thread and stained solid wooden legs. Single	Nos	
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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, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit th board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The stora four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with o 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 mo shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, 14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should m international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load b 0 withdrawal strength, modulus of elasticity bending tested as per IS 2380. Ground Floor - Library Table - 3560x600x750 Supplying & placing table with an overall size 3580mm X 600mm X 750mm. The to shall be made up of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shap corner. The top shall be supported on MS chrome plated tubular frame with cross-section area 40mm X 20 thick. The under structure shall consist of four legs made of MS chrome plated oval pipe having cross-section X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid sc 11 floor. Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be m insert pipe frame padded with high resiliance polymethane foam (30+19)mm thick having density (60+40) kk 19mm thick having density 23kg/m² in back. The same shall be upholstered w	the size of age shall have concealed oulding, skirting	
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	kg/m³ in seat thick and 535 pport. The antilever avoid	20
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, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit th board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The stora four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with c 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 mode shall be provided at bottom. The manufacturer shall have quality and safety assurance like ISO-9001:2015, 14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should met international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load b withdrawal strength, modulus of elasticity bending tested as per IS 2380.	the size of age shall have concealed	1

	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-		
	14 withdrawal strength, modulus of elasticity bending tested as per IS 2380.	Nos	2
	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 trey		
	shall be provided of 18mm thick Pre-laminated particle board. The trey 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, facia 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	.	
	15 rupture and modulus of elasticity bending tested as per IS 2380.	Nos	20
	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 resiliance polyurethane foam (30+19)mm thick having density (60+40) kg/m ³ 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)		
	16 from seat & overall height = 870 ± 10 mm.	Nos	20
	17 Drawer - 161x750x750	Nos	20
	First Floor - EE Room		
	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		
1	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		
	18 on the floor.	Nos	
	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 resiliance 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		
		1	
	scratches on the floor. The seat size shall be $480+10 \text{ mm}(W) \times 470+10 \text{ mm}(D)$ and back size shall be $460\pm10 \text{ mm}(U)$	1 1	
	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) 19 from seat & overall height = 870±10 mm.	Nos	4

	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	NISS	_
20	on the floor.	Nos	2
	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 resiliance polyurethane foam (30+19)mm thick having density (60+40) kg/m ³ 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)		
21	from seat & overall height = 870 ± 10 mm.	Nos	8
	First Floor - Strore Room	1103	0
	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-		
1 22	withdrawal strength, modulus of elasticity bending tested as per IS 2380.	Nos	1
		INUS	
	Second Floor - Asst. Commissioner Room		
	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		
23	on the floor.	Nos	2
	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 resiliance polyurethane foam (30+19)mm thick having density (60+40) kg/m³ 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)		-
24	from seat & overall height = 870±10 mm.	Nos	8
	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).		
25	Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs.	Nos	2
	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		
26	of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The	Nos	2
	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-		
27	withdrawal strength, modulus of elasticity bending tested as per IS 2380.	Nos	2
	Second Floor - Conference Room		
	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		
00	52mm X 26mm with 1.6mm thick. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches	Nee	
28	on the floor.	Nos	1

		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 resiliance polyurethane foam (30+19)mm thick having density (60+40) kg/m³ 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)		
	29	from seat & overall height = 870±10 mm.	Nos	15
		Second Floor - Workstation		
		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		
	30	floor.	Nos	6
	31	Pedestal - 165x750x750	Nos	6
		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
		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 resiliance 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.	Nos	6
		Second Floor - Accounts Officer's Cabin		
		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	1
		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 resiliance polyurethane foam (30+19)mm thick having density (60+40) kg/m ³ 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.	Nos	4
		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 - PA Room		•
		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		
- 1		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		
		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

Chairs Providing and supplying chair with ergonomic design for user comfort. The seat and back shall be made of metal insert pipe frame paded with high resiliance polyurethane foram (30+4) mit hick having density (60+40) kg/m in seat 19mm thick having density (23kg/m²) 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 ammers shall be used polyurethely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25A farm with 2mm thick. Three shall be cantilever support type made up of MS/CRCA powder coated round mito. The seat size shall be 460±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) 38 form seat & overall height = 870±10 mm. Nos Entertiainment/Recreation Room Nos Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3* elastic webbing with diagonal weave and mult layered foam (22D 23) 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2* elastic webbing with diagonal Weave and at 3* fame (32D) with polyester polyfill outer layer (100 gsm). Backrest: 2* elastic webbing with diagonal weave and mult layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2* elastic webbing with diagonal weave and mult layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 41 the seate stitched with nylon bonded thread and stained solid wooden legs. Nos 42 to core. The top shal
19mm thick having density 23kg/m ² in back. The same shall be upholstered with leatherite tapesitry 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 canoid scratches on the floor. The seat size shall be 400±10 mm(W) X 470±10 mm(D) and back size shall be 460±10 mm(H) 36 from seat & overall height = 870±10 mm. Nos Entertainment/Recreation Room Nos Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and mult layered foan (32D 230 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). Backrest 2" elastic webbing with diagonal Weave and 3" foam (23D) with polyester polyfill outer layer (100 gsm). Backrest 2" elastic webbing with diagonal weave and mult layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest 2" elastic webbing with diagonal weave and mult layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest 2" elastic webbing with diagonal weave and mult layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest 2" elastic webbing with diagonal weave and mult layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushioms: as elastic webbing with routo at 3" foan (23D)
GSM. The backrest of the chain shall be made by keeping the natural curvature of the spine with lumbar support. The armest 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) 38 Interfairment/Recreation Room Nos 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 polyfil outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal weave and multi layered foam (32D 23D 23D 1) but polyester polyfil outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette stitched with mylon bonded thread and stained solid wooden legs. Nos 40 Outer finish: superior quality leatherette stitched with mylon bonded thread and stained solid wooden legs. Nos 51 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 41 corner. The top shall Nos 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 on natrural rubber vulcanized to provide a better
armest 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 4rm with 2rm thick. Three 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) 38 from seat & overall height = 370±10 mm. Entertainment/Recreation Room Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 23D) with Polyester polyfil outer layer (100 gsm). Bouter finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and 3" foam (23D) with Polyester polyfil outer layer (100 gsm). Bouter finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and 3" foam (23D) with Polyester polyfil outer layer (100 gsm). 40 Outer finish: superior quality leatherette stitched with nylon bonded thread solid wooden legs. Nos Table - 1200x685x750 Supphyling & placing table with an overall size 1200mm X 685 mm X750mm. 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 41 corner. The top shall Nos Bed - The top shall Sometimes as bumpers. 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. Primanily the cushions are made from synthetic or natural rubber vulcanized to provide a better bounce. The cushin decreases the kinetic energy of the ball as they strite on their surface. The cushino base is 30 mm in hein
support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypopylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(V) X 470±10 mm(D) and back size shall be 460±10 mm(H) 38 from seat & overall height = 870±10 mm. Nos Entertaimment/Recreation Room Nos 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 polyfil outer layer (100 gsm). Backrest 2" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfil outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette sitched with nylon bonded thread and stained solid wooden legs. Nos Table - 1200x665xr50 Supphying & 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 141 corner. The top shall Nos Pool Table (2360x1370 MM) Cushions - The cushions are also regarded as rail cushions, cushion rubber and sometimes as bumpers. The cushion base is 30 mm in length, where the height of the nose is 25 mm. Bed - The bod is the horizontal surface of the table, Mich is covered by a clot. The high-quality equipment made of solid and smorth base of size of which are used on the incursitor stable, three tourament sized beds are used. The beds are manufactured using wood, especially fiberboard and medium-density plywood, as well as plastica on thein cushico superior wood serind covered by a clot. The hi
support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypopylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 480±10 mm(V) X 470±10 mm(D) and back size shall be 460±10 mm(H) 38 from seat & overall height = 870±10 mm. Nos Entertaimment/Recreation Room Nos 39 Outer finish: superior quality leatherette stitched with polyester polyfil outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfil outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Phywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 32D) with polyester polyfil outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 51 Table - 1200x685x760 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 141 corner. The top shall Nos 41 corner. The top shall Nos Seater Sofa Sofa Frame: Playeoud the support of the table in then shight of the nose is 25 mm. Bed - The bad is the ho
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) 38 from seat & overall height = 870±10 mm. Nos Entertainment/Recreation Room Immediate 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 301 bm Polyester polyfill outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherete stitched with nylon bonded thread and stained sold wooden legs. Nos 40 Outer finish: superior quality leatherete stitched with nylon bonded thread and stained sold wooden legs. Nos 41 Couter finish: superior quality leatheretes titched with nylon bonded thread and stained sold wooden legs. Nos 42 Outer finish: superior quality leatheretes titched with nylon bonded thread and stained sold wooden legs. Nos 43 Outer finish: superior quality leatheretes titched with nylon bonded thread and stained sold wooden legs. Nos 44 corner. The top shall Nos Nos 44 corner. The top shall Nos Nos 45 Pool Table (2360x1370 MM) Cushions - The cushions are also regarded as rail cushions, cushion rubber and sometimes as bumpers.
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) Nos Bingle 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 multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Nos Three Seater Sofa Sofa Srame: 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). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Nos 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 10 corner. The top shall Nos evel Table (2360x1370 MM) Cushions - The cushions are also regarded as rail cushions, cushion rubber and 5 solid and smooth slas 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 phastics and other synthetic mat
38 from seat & overall height = 870±10 mm. Nos Entertainment/Recreation Room Entertainment/Recreation Room Image: State 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 (32D) with Polyester polyfill outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal Weave and 3" foam (23D 2D 23D 2D) with polyester polyfill outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Nos Table -1200:e685x750 Supphylor & placing table with an overall size 1200mm X 665 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 41 corner. The top shall Nos 41 corner. The top shall Nos Nos Bed - The bot is the horizontal surface of the table, increase the height of the nose is 25 mm. Bed - The bot is the horizontal surface of the table, is covered by a coth. The high-quality equipment made of solid and smooth slabs of slate is usually manufactured in 14y, Brazil and China. In an ideal billilards table, three tournament sized beds are used. The beds are
Entertainment/Recreation Room Single Seater Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foun (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" foam (32D 23D 32D) with Polyester polyfill outer layer (100 gsm). Soluter finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and multi layered foam (32D 23D 2D) with Polyester polyfill outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 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 to comer. The top shall Nos 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 fue head is all be three tournament size beds are manufactured in tally, Brazil and China. In an ideal billiards table, three tournament size beds are used. 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 using wood, especially fiberboard and medium-density plywood, as well as plastics and oth
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 (32D) with Polyester polyfill outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 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 1 corner. The top shall Nos 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 surfactured 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 thene saded to get a smorth surface and then covered by a cl
weave and multi layered foam (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" form (23D) with Polyester polyfill outer layer (100 gsm). 39 39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal Weave and 3" form (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Backrest: 2" elastic webbing with diagonal Weave and 3" form (32D 23D 32D) with polyester polyfill outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 41 corner. 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 Nos 42 corner. The top shall Nos Nos 43 corner. The top shall Nos Nos 44 corner. The top shall Nos Nos 45 Pool Table (2360x1370 MM) Cushions - The cushions are also regarded as rail cushions, cushion rubber and sometimes as bumpers. 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 manufact
with diagonal Weave and 3" foam (23D) with Polyester polyfill outer layer (100 gsm). Nos 39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos Three Seater Sofa Sofa Frame: Plywood and timber wood combination Seating cushions: 3" elastic webbing with diagonal Weave and 3" foam (23D) 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). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 41 Douter finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 42 Corner. The top of 12mm thick toughened glass with bevelled edges. The profile shall be in rectangle shape with round corner. The top shall Nos 43 corner. The top shall Nos Nos 44 corner. The top shall Nos Nos 45 pool Table (2360x1370 MM) Cushions - The cushions are also regarded as rail cushions, cushion rubber and sometimes as bumpers. The cushion base is 30 mm in length, where the height of the nose is 25 mm. Nos 8 Pool Table (2360x1370 MM) Cushions - The cushion base is 30 mm in length, where the height of the nose is 25 mm. Nos 8 Bed - The bed is the horizontal surface of the table, which is covered by a
39 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 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 (32D 2JD) with Polyester polyfill outer layer (100 gsm). Nos 40 Outer finish: superior quality leatherette stitched with nylon bonded thread and stained solid wooden legs. Nos 41 Corner. The top Shall Nos 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 sufface 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
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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 111/2 inch
42 radius. Nos
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
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
chamfer shape. The top shall be supported on MS chrome plated oval frame with cross-section area 40mm X 20mm with

EGIONA	Estimate IL OFFICE BUILDING AT UMSAWLI, EASTKHASI HILLS D	ISTRICT	SHILLONG	,MEGHALAYA	
GH SID	E BOQ				
	1				
				MARKET RATE	
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				
	confirming to I.S. 7098 (Part-II with latest amendments) II				
	KV grade with cable jointing kit and accessories as per				
	requirement.	M - 4	0700	0000	04000
	185 sq. mm 3 core	Meter	2700	3000	81000
	PSC Electric Pole, Length : 8 m	Each	50	2500	1250
	TRANSFORMER		-		
	E HIVING GRADER		-		
	11 KV PACKAGED SUBSTATION 11kV / 433V PACKAGED SUBSTATION:		-		
	HT SIDE: 1 WAY RADIAL				
	TRANSFORMER: OIL TYPE (WITH OLTC)				
	LT SIDE: 4P ACB / MCCB		+		
	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).				
	200KVA 11/.433V	Each	1	1800000	18000
			_		
:	3 D.G. SET				
	Overalty Jacksflation, Tacking & Overalistic size of 00				
	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, table on pressure gauge, water temperature gauge, battery charging ammeter, safety		1		
	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 continously 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 ± 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		1		
	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				
	160 KVA	Each	1	1075000	10750
		Lauri	+	107 3000	10750
	Total A		-	1	