

NAME OF PROJECT: CONSTRUCTION AND RENOVATION OF GOVT. HIGH SCHOOL KULBA AT SUBDEGA BLOCK IN SUNDERGARH DISTRICT OF ODISHA						
BILL OF QUANTITIES (CIVIL WORK+ ELECTRICAL + PH)						
Sl. No.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATE	AMOUNT	
1	Site Cleaning including cutting of bushes and uprooting of stumps etc.	684.15	Sqm	1.90	1,299.89	
2	Earth Work in exavation of foundation in ordinary soil within initial leads of 50m & lifts of 1.5m including dressing and levelling of bed etc. and adding contractor's profit and over head charges, etc. complete in all respect (A.R.-2006, Page No - 1, Item No. - 1(a))	397.88	Cum	186.40	74,164.83	
3	Supplying & filling foundation and plinth with course sand well watered and rammed including cost, cost of all labour, carriage, royalty, etc complete.(A.R.-2006, Page No - 8, Item No. - 15)	495.81	Cum	317.60	157,469.26	
4	Dismantling and removing 2.5 cm. thick artificial stone flooring including stacking the useful materials for reuse and removing the debris within 50m lead.	329.19	Sqm	77.69	25,574.17	
5	Dismantling and removing old tiles flooring including removing the base coarse and stacking the useful materials for reuse and removing the debris within 50m lead	19.88	Sqm	97.10	1,929.96	
6	Dismantling and removing old tiled cladding from walls including racking out joints 12mm deep stacking the useful materials for reuse and removing the debris within 50m lead	16.57	Sqm	50.50	836.89	
7	Dismantling brick masonry in cement mortar 3m. Height including stacking the useful materials for reuse and removing the debris within 50m. Lead. (A.R.-2006, Page No - 214, Item No. - 3)	62.85	Cum	1085.00	68,189.81	
8	Dismantling & removing R.C.C columns beams, slab, staircase, landing, lintels, including stacking the useful materials for the reuse and removing the debries within 50 m lead.	7.35	Sqm	1153.40	8,473.16	
9	Removing old lime or cement plaster from walls including raking out joints 12 mm deep and removing the debris within 50m lead etc.all complete (AR 2006 Page218/13)	498.74	Sqm	38.84	19,370.84	
10	Labour charges to remove existing loose cover concrete ,chipping and disposing charges of the debris within 50m lead .	30.00	Sqm	236.74	7,102.32	
11	Cleaning the exposed steel bars with angle grinder or wire brush and washing charges of the structure with water jet	30.00	Sqm	209.98	6,299.37	
12	Supplying and application charges for zinc rich primer two coats where ever necessary in ceiling area	30.00	Sqm	565.00	16,950.00	
13	Supply and making polymer plaster 20mm thick on ceiling area	30.00	Sqm	544.83	16,344.90	
14	Dismantling & removing Doors, Windowss and ventilators including Removal of frame, hinges, fastening and stacking the useful materials for the reuse and removing the debries within 50 m lead.	31.32	Sqm	810.80	25,394.26	
15	Dismantling G.C.I. or A.C. sheet roofing after carefully removing the bolts and nuts including stacking of he materials for reuse and removing the debris within 50m lead	45.50	Sqm	70.78	3,220.49	
16	Cement Concrete (1:3:6) using 4cm size hard granite C.B. metal approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete.	91.40	Cum	4539.30	414,892.02	
17	Cement Concrete (1:2:4) using 12mm size hard granite C.B. chips approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete and as directed by E.I.C.	35.45	Cum	5821.20	206,361.54	
18	12mm thick cement plaster (1 : 4) over brick work with cement punning for skirting per 1 Sqm.					
	Ground Floor	155.13	Sqm	150.54	23,352.86	
19	2.5 cm. Damp proof course with C.C. (1:2:4) using 12mm. Size hard broken granite Chips					
	Ground Floor	19.94	Sqm	272.15	5,426.67	

20	Providing Reinforced cement concrete work of M-20 grade with 20mm and down grade black hard granite crusher broken chips including cost of all materials labours ,T&P, carriage, royalty, taxes, etc. with watering and curing , all complete. (Item-4, AR-2006)					
a.	Foundation RCC	83.46	Cum	4862.70	405,840.94	
b.	Columns RCC					
	Ground Floor	17.52	Cum	10493.90	183,853.13	
	First Floor	9.80	Cum	11732.92	114,982.62	
	Second Floor	9.80	Cum	13215.56	129,512.49	
	Head Room	2.08	Cum	14989.91	31,179.01	
c.	Plinth Beam	11.92	Cum	5213.20	62,141.34	
d.	Lintel Beam					
	Ground Floor	4.00	Cum	8344.64	33,378.56	
	First Floor	4.00	Cum	9153.79	36,615.16	
	Second Floor	3.85	Cum	10120.52	38,964.00	
	Head Room	0.49	Cum	11275.84	5,525.16	
e.	Chajja					
	Ground Floor	5.95	Sqm	769.73	4,579.89	
	First Floor	21.45	Cum	867.79	18,614.10	
	Second Floor	21.45	Cum	985.20	21,132.54	
	Head Room	0.90	Cum	1125.76	1,013.18	
f.	Roof Beam					
	Ground Floor	14.66	Cum	10493.90	153,840.57	
	First Floor	11.92	Cum	11732.92	139,856.41	
	Second Floor	11.56	Cum	13215.56	152,771.87	
	Head Room	1.53	Cum	14989.91	22,934.56	
g.	Slab RCC					
	Ground Floor	27.02	Cum	8925.51	241,167.28	
	First Floor	25.35	Cum	9850.83	249,718.54	
	Second Floor	25.35	Cum	10957.08	277,761.98	
	Head Room	2.00	Cum	12279.78	24,559.56	
h.	WALL					
	Ground Floor	4.65	Cum	9756.30	45,366.80	
I.	Staircase					
	Ground Floor	2.86	Cum	10029.40	28,684.08	
	First Floor	2.86	Cum	11175.54	31,962.04	
	Second Floor	2.86	Cum	12546.74	35,883.68	
21	Providing HYSD. reinforcement for R.C.C. work including cutting, bending, binding and tying the grills and placing in position including cost of binding wire 18 to 20 gauge and cost and carriage of steel. etc. complete. (A.R.-2006, Page No - 52, Item No. - 9)					
	Ground Floor	188.37	Qtl.	7616.80	1,434,752.24	
	First Floor	72.15	Cum	7640.10	551,215.64	
	Second Floor	71.31	Cum	7664.66	546,595.49	
	Head Room	8.97	Cum	7690.43	68,972.42	
22	Brick work with Fly ash Bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ±2 percent in cement mortar (1:6) in Foundation and Plinth including watering curing, cost of carriage and royalty of all materials, cost of all labour, etc complete.					
	Ground Floor	40.99	Cum	4039.70	165,587.30	
23	Brick work with Fly ash Bricks 25cm x 12cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ±2 percent in cement mortar (1:6) in Super Structure including watering curing, cost of carriage and royalty of all materials, cost of all labour, etc complete. (Ref.:-A/R-2006,P-71,Item No-3)					
	Ground Floor	116.46	Cum	4073.00	474,341.58	
	First Floor	58.99	Cum	4334.80	255,709.85	
	Second Floor	58.99	Cum	4636.00	273,477.64	
	Head Room	13.42	Cum	4982.26	66,861.92	
24	16mm thick C.P. (1:6) over brick masonry to the smooth surface including watering, curing cost, carriage, royalty, and taxes of all materials, cost of all labour, etc complete as per the direction of E.I.C. Ref :- A/R - 2006 ,P- 105, Item No - 14					
	Ground Floor	614.22	Sqm	191.20	117,438.86	
	First Floor	393.89	Sqm	196.10	77,241.83	
	Second Floor	395.47	Sqm	201.10	79,529.02	
	Head Room	33.01	Sqm	206.20	6,806.66	

25	12mm thick C.P.(1:6) on brick masonry to the smooth surface including watering, curing, cost, carriage, royalty of all materials, cost of all labour, etc complete as per the direction of E.I.C. Ref :-A/R - 2006 ,P- 103, Item No - 4					
	Ground Floor		863.50	Sqm	133.50	115,277.20
	First Floor		176.18	Sqm	136.80	24,100.74
	Second Floor		176.18	Sqm	140.10	24,682.12
	Head Room		166.62	Sqm	143.50	23,910.51
26	6 mm thick C.P. (1:4) to RCC surfaces finished smooth including closed deep chipping and slurry treatment , watering, curing cost, carriage & royalty of all materials, cost of all labour, etc complete as per the direction of E.I.C. Ref(A/R-2006,P-103,Item no-27)					
	Ground Floor		334.01	Sqm	150.32	50,208.38
	First Floor		162.54	Sqm	154.11	25,049.04
	Second Floor		162.54	Sqm	158.01	25,682.95
	Head Room		13.38	Sqm	162.01	2,167.69
27	Providing fixing GRANITE TILES in floors or steps and landing on 25 mm thick bed in cement mortar 1:1 jointed with neat cement slurry with pigment to match the shade of tiles including rubbing and polishing but including cost of tiles. (As per A.R. 89/16)					
	Ground Floor Qty.		21.63	Sqm	1816.32	39,286.95
	First Floor		16.05	Sqm	1837.19	29,486.97
	Second Floor		14.70	Sqm	1858.06	27,313.55
28	Providing fixing Vitrified matt tiles (600 X 600)mm in floors or steps and landing on 25 mm thick bed in cement mortar 1:1 jointed with neat cement slurry with pigment to match the shade of tiles including rubbing and polishing but including cost of tiles. (As per A.R. 89/16)					
	Ground Floor Qty.		417.75	Sqm	1252.90	523,398.98
	First Floor		139.17	Sqm	1273.80	177,274.75
	Second Floor		139.17	Sqm	1294.70	180,183.40
29	Providing fixing Vitrified matt tiles (300 X 300)mm in floors or steps and landing on 25 mm thick bed in cement mortar 1:1 jointed with neat cement slurry with pigment to match the shade of tiles including rubbing and polishing but including cost of tiles. (As per A.R. 89/16)					
	Ground Floor		31.15	Sqm	1147.80	35,752.82
	First Floor		1.92	Sqm	1168.60	2,243.71
	Second Floor		1.92	Sqm	1189.50	2,283.84
30	Providing fixing Chequered tiles in floors or steps and landing on 25 mm thick bed in cement mortar 1:1 jointed with neat cement slurry with pigment to match the shade of tiles including rubbing and polishing but including cost of tiles. (As per A.R. 89/16)		60.30	Sqm	797.50	48,089.25
31	Fixing Matt tiles(600 X 600)mm in dados skirting and risers of steps on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.					
	Ground Floor		102.17	Sqm	1349.00	137,827.33
	First Floor		17.26	Sqm	1412.42	24,378.37
	Second Floor		17.00	Sqm	1478.98	25,142.66
32	Fixing Polished tiles(300 X 450)mm in dados skirting and risers of steps on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.					
	Ground Floor		122.60	Sqm	1042.60	127,820.67
	First Floor		0.56	Sqm	1072.70	600.71
	Second Floor		11.76	Sqm	1102.80	12,968.93
33	Providing fixing KOTA tiles in floors or steps and landing on 25 mm thick bed in cement mortar 1:1 jointed with neat cement slurry with pigment to match the shade of tiles including rubbing and polishing but including cost of tiles. (As per A.R. 89/16)					
	Ground Floor Qty.		23.40	Sqm	1042.60	24,396.84
34	Fixing KOTA TILES in dados skirting and risers of steps on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.		61.66	Sqm	1138.70	70,207.69

35	Finishing wall surface with Cement based Wall putty (water based) of approved make and finished smooth & even surface to receive painting including cost of scaffolding etc. with cost of all materials, labour etc. complete. Ref :-A/R - 2006, P-236, Item No - 2					
	Inside putty	2695.78	Sqm	85.90		231,567.24
	First Floor	517.72	Sqm	87.19		45,140.01
	Second Floor	519.56	Sqm	88.49		45,975.86
	Head Room	45.49	Sqm	89.80		4,085.00
	Out side putty	257.43	Sqm	85.90		22,113.45
36	Priming 1 coat with Wall Primer water bond cement primer including all labour, materials etc. complete.					
	First Floor	197.63	Sqm	87.19		17,230.92
	Second Floor	197.63	Sqm	88.49		17,487.84
	Head Room	167.52	Sqm	89.80		15,043.63
36	Wall painting 2 coats with plastic emulsion paint of approved shade on new work to give an even shade including cost of paint etc complete.					
	Ground Floor	1335.87	Sqm	80.49		107,519.79
	First Floor	517.72	Sqm	82.04		42,473.75
	Second Floor	519.56	Sqm	83.60		43,435.22
	Head Room	45.49	Sqm	85.16		3,873.93
37	Wall painting two coat with any approved Weather coat paint including cost of all materials, labour and T&P require for the work etc. complete as directed by the E.I.C.					
	Ground Floor	1661.59	Sqm	73.98		122,924.76
	First Floor	197.63	Sqm	76.56		15,130.15
	Second Floor	197.63	Sqm	79.28		15,668.06
	Head Room	167.52	Sqm	82.00		13,737.57
38	Iron work wrought and put up in grated doors windows & cage latrines (per qntl)	1329.75	Kg.	135.00		179,516.25
39	Priming one coat with Red Oxide primmer including cost of primmer & labour to give an even shade excluding cost of primer. (As per A.R. 93/1)	121.88	Sqm	53.50		6,520.31
40	Painting two coats with approved Enamel paints of approved colour, shade over a coat of primer including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour etc, complete as per specification & direction of Engineer-in-charge. (As per A.R. 93/3)	144.38	Sqm	133.88		19,328.93
41	Supplying of TATA PARVESH DOOR , (PLANE STEEL FINISH), Frame Profile (100X58) Single Rebate with 46mm, Shutter thickness, Shutter infill-Honycomb and Frame Infill- Puff.	19.00	Nos.	20051.00		380,969.00
42	Supplying of TATA PARVESH WINDOW , (OYESTER WINDOW), Double Rebate Plain Steel Finish with 3 Shutter. 5mm Clear Floated Glass. SS 2X3 hingeswith 2.5 mm thickness, SS Handels, Tower Bolt, Stopper, EPDM Gasket And Corner Bracket.	18.00	Nos.	25318.00		455,724.00
43	Supplying of TATA PARVESH VENTILATOR , Adjustable Ventilator With Grill	3.00	Nos.	10593.00		31,779.00
44	M.S Truss made out of Channel Section of different sizes of grade YST-310.	1038.04	Kg	70.70		73,389.46
45	Cost of Barbed Wire for installing in Boundary Fancing.	1165.00	Rmt	10.14		11,813.10
46	Providing & laying of 60mm thick factory made cement concrete interlocking paver block of M35 grade and approved make variety colour and size made by Block making machin with strong vibratory compaction of approved design and shape, laid in required colour and pattern over 50mm thick compacted bed of coarse sand ,filling the joints with fine sand etc.all compelte including cost,conveyance,royalty,taxes of all materials,labour,T & P etc.Complete as per direction of EIC.	450.00	Sqm	640.01		288,004.50

47	Providing and laying at or near ground level factory made Kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. Kerb stone shall be approved by Engineer in-charge).		11.25	Sqm	6849.10	77,052.43
48	Supplying, fitting and fixing of stainless steel of 304 grade in hand railing using 50 mm dia of 2 mm thick circular pipe with Balustrade of size 32 mm x 32mm x 2mm @ 0.90 mtr C/C and stainless square pipe bracing of size case as per approved design and specification, buffing, polishing etc. with the cost, conveyance taxes of all material, cost of all labour etc. complete in all respect.		32.00	Rmt.	3515.29	112,489.21
49	40mm thick grading concrete (1:2:4) on roof slab with 12mm & down grade size black hard granite chips for old work.		196.29	sqm	594.66	116,727.01
50	Provision of plantation all around the campus with suitable tree guard where required.					
	(i.e. Mandar (hibiscus rosasinesis), Tagar (tabarnae montana coronaria) , Kaniar (thevetia spp), Karabira (nerium oleander)		10.00	Nos.	450.00	4,500.00
1	Wiring for circuit/submain wiring with the following mentioned size PVC insulated, copper conductor(FRLS), single core cable (Finolex/Polycab/L&T) or any other equivalent reputed make ISI marked as approved, in surface/recessed PVC conduit medium,FRLS					
a)	Single light/fan/ex.f point controlled by one 6A switch or first light/fan/exf/cb point or group control.modular GROUP-A		51.00	Nos	477.00	24327.00
b)	Single light/fan/ex.f point controlled by one 6A switch or first light/fan/exf/cb point or group control.modular GROUP-B		23.00	Nos	535.00	12305.00
c)	Single light/fan/ex.f/call bell point controlled by one 6A switch or first light/fan/exf/cb point or group control.modular GROUP-C		12.00	Nos	576.00	6912.00
2	subsequent point of group controlWiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.		11.00	Nos	374.00	4114.00
3	6A Plug on the same board with complete fitting by 01 no of 6A switch & socket (modular type) & other required accessories of ISI marked as approved		12.00	Nos	317.00	3804.00
4	6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type) cover,modular board & other required accessories of ISI marked as approved		18.00	Nos	339.00	6102.00
5	2x6A Plug on the separate board For computer/UPS/other power point or TV point & other use for Data center/go down area with complete fitting by 02 nos of 5A switch & socket(modular type) cover,modular board & other required accessories of ISI marked as approved(For ICTC Lab & Class room)		12.00	Nos	506.00	6072.00
6	Supplying and fixing 15/16A modular socket with 15/16A Switch on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		6.00	Nos	424.00	2544.00
7	Wiring for circuit/submain wiring with the following mentioned size PVC insulated, copper conductor(FRLS), single core cable (Finolex/Polycab/L&T) or any other equivalent reputed make ISI marked as approved, in surface/recessed PVC conduit medium,FRLS (AKG or any other equivalent reputed make ISI marked as approved) FRLS as required.					

a)	2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor.		111.00	Mtr	100.00	11100.00
b)	2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor. (BDB to LSB/LIGHT CKT/5A PLUG)		101.00	Mtr	119.00	12019.00
c)	2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 4 sq. mm copper wire for earth continuity conductor.		33.00	Mtr	148.00	4884.00
d)	2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 6 sq. mm copper wire for earth continuity conductor.(LFDB TO LBDB)		21.00	Mtr	192.00	4032.00
e)	2 nos single core 10 sq. mm copper wire for phase and neutral and 01 nos of single core 6 sq. mm copper wire for earth continuity conductor.(FLOOR PANEL TO BDB)		11.00	Mtr	256.00	2816.00
f)	4 nos single core 6 sq. mm copper wire for phase and neutral and 02 nos of single core 6 sq. mm copper wire for earth continuity conductor.(LFDB TO LBDB/power unit/point)		11.00	Mtr	315.00	3465.00
8	Supply, delivery, installation & testing of AC boards consisting of 1 No 20-A DP Modular switch with indicator and 1 No 16A Moular socket in indivisual Modular G.I Box making good the damages caused complete as required and as per direction of Engineer-in-charge.		2.00	Mtr	931.00	1862.00
9	Supplying and fixing 20 amps, 240 volts, SPN, industrial type socket outlet, with 2 pole and earth metal enclosed plug top along with 32 amps. C-series, SP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required. Legrand/Hager/Siemens make		2.00	Nos	961.00	1922.00
10	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.MAKE KINJAL/ AKG					
a)	20 MM		9.00	Nos	53.00	477.00
b)	25 MM		9.00	Mtr	59.00	531.00
11	Supply and fixing modular type indicator on the existing switch box/cover of Anchor make.		6.00	Mtr	107.00	642.00
12	Supplying and installation of AC starter Modular type,L&T make or any other equivalent reputed make as approved coil voltage-415 Volt A.C. & O/L range of 9-14A range on mod Box of suitable size including mouldlar cover.		2.00	Nos	553.00	1106.00
13	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep with louvers (Havells make or any other equivalent reputed make star rated as approved) of exhaust fan in the existing wall, including fixing & conntection.		3.00	Nos.	3098.00	9294.00
14	Supplying, installation, testing and commssioning of 1400 mm sweep white/milky colour ceiling fan of Havells velocity/CROMPTRON JURA Make or any other equivalent reputed make star rated as approved including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required.(With fan Regulator)		9.00	Nos.	2759.00	24831.00
15	Supplying, installation, testing and commssioning of 1200 mm sweep white/milky colour ceiling fan of Havells velocity/CROMPTRON JURA Make or any other equivalent reputed make star rated as approved including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required.(With fan Regulator)		30.00	Nos.	2585.00	77550.00
	Supplying, installation, testing and commssioning of 400 mm sweep wall fan of Havells /CROMPTRON Make or any other equivalent reputed make star rated as approved including wiring with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required.		9.00	Nos.	1803.00	16227.00

16	Supplying and fixing of 40 W LED Street light ,WIPRO WIPRO make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.		1.00	Nos.	2245.00	2245.00
17	Supplying and fixing of 18 Watt LED round SurfaceFittings CAT No. LD80-171-XXX-60-SM , WIPRO make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.		8.00	Nos.	2070.00	16560.00
18	Supplying and fixing of 20 Watt LED Tube light Fittings CAT No. CAT No. LL20-281-XXX-65AL1** , WIPRO make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.		70.00	Nos.	1079.00	75530.00
19	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 2x10 cm .		39.00	Nos.	28.00	1092.00
20	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts, on surface/recess, complete with terminal blocks, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. Legrand/L&T/Siemens/HAVELLS make, or any other equivalent A catagories reputed make ISI marked as approved					
	8 way, Double Door SPN DB (FOR LIGHT/POWER/UPS)(01 no)		3.00	Nos	1489.00	4467.00
21	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series, single poles MCB of Legrand/L&T/Siemens make or any other equivalent A catagories reputed make ISI marked as approved in the existing MCB DB complete with connections.		36.00	Nos	156.00	5616.00
22	Supplying and fixing 25Amps DP 240 volts, RCCB,300mA Legrand/L&T/Siemens make or any other reputed equevallent A catagories make ISI marked as approved in the existing MCB DB complete with connections.		3.00	Nos	1680.00	5040.00
23	Supplying and fixing 40Amps DP 240 volts, RCCB,300mA Legrand/L&T/Siemens make or any other reputed equevallent A catagories make ISI marked as approved in the existing MCB DB complete with connections.		2.00	Nos	1829.00	3658.00
24	Supply of materials and installation of pipe earth electrode made out of 40mm dia class B G.I. pipe of 4.5 metre long with arrangements for fitting/ termination of G.I. flat / wire with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonary enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.		2.00	Nos	4785.00	9570.00
25	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.		39.00	Mtr	100.00	3900.00
26	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.		19.00	Mtr	37.00	703.00
27	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required.		12.00	Mtr	854.00	10248.00

28	Supply, delivery, installation, testing & commissioning of L.T. indoor wall mounted type distribution boards made out of 2mm thick CR sheet metal cubicle fixed on m.s. channel base, duly acid treated for derusting, primered and painted with 2 coats of enamel paint of approved shade, dust, damp & vermin proof, having hinged door and compartmental arrangement for each equipment & busbar chamber on the top of the panel running horizontally, having provision for cable/ conduit entry, earthing studs as per specification mentioned below duly factory wired conforming to the relevant ISS and as per special conditions of contract making good the damages caused complete as per the direction of Engineer-in-charge.		1.00	Set	34500.00	34500.00
29	Supplying, laying & testing of following size of PVC insulated XLPE sheathed / strip armoured aluminium / Copper conductor power cables of 1100 volt grade laid directly unground with sand cushioning, brick protection, clamped on surface of the walss / columns / existing RCC / inside masonry cable trenches / on the cable tray /through G.I Pipes / hume pipes / PVC pipes as the case may be, including cost of shaddles/ clamps/ markers etc but excluding the cost of G.I. Pipes / Hume pipes cpmplete with making good to the damages as required and as per direction of Engineer-in-charge.					
a)	3core x 2.5 sq mm copper unarmoured cable.		33.00	Mtr.	141.00	4653.00
b)	3core x 6 sq mm copper unarmoured cable.		31.00	Mtr.	77.00	2387.00
c)	3.5 core x 35 sq mm Aluminium armoured Cable.(2 runs)		51.00	Mtr.	243.00	12393.00
30	Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.					
a)	3.5 core x 35 sq mm Aluminium armoured Cable.		4.00	Nos	185.00	740.00
31	Providing and laying of fallowing dia HDPE pipe (medium class) in ground complete with HDPE fitting incl. trenching(75 mm depth)and refilling.					
a)	63 mm Dia, PN-6, PE-80, HDPE pipe		21.00	mtrs	202.00	4242.00
32	Supply of materials, Fixing of G.I perforated cable tray along with hanging arrangements & supports fabrication complete. For following sizes.					
a)	100x50x50x1.6mm thick.		11.00	Mtr	466.00	5126.00
33	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.		11.00	Nos	362.00	3982.00
34	Supply , installation ,testing & commissioning of following safety equipments for school					
	a) First aid box with standard item.		3	Eac h	767.05	2301.15
	b) As Foam type fire extinguisher (9 liters)as per IS		2	Eac h	5343.48	10686.95
	c) Floor mounting stand for keeping 4 nos. of bucket 5ft in length and 3ft in height made from 30x 30x4 mm angle iron with welded 4 hooks duly painted		6	Eac h	1900.38	11402.25
35	Supplying and fixing of 40 W Solar LED Street light ,with battery box out door type of Havells make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.		10	Nos.	23925.00	239250.00
36	Supply, delivery, installation & testing of 2KVA single phase UPS with 1 hour battery backup for emergency lighting and computers.		1.00	Nos.	48425.00	48425.00
37	Supplying and laying of CAT6 LAN WIRE protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required(1 run)		21.00	Mtrs	38.00	798.00
38	Supply & laying of the 4 pair,0.5 sqmm telephone cables in existing surface/ recessed conduit etc. as required.		15.00	Mtrs	20.00	300.00
39	Supply of Material and installation of RJ 45 UTP information outlet.		12.00	Nos.	677.00	8124.00
40	Supply of ALL Material and installation of DP box with rack data		1.00	Nos.	8500.00	8500.00

41	Supply of Material and installation of RJ 11 Telephone socket.	3.00	Nos.	321.00	963.00
42	Supply of ALL Material and installation of CCTV Serveyline accessories	11.00	Nos.	7510.00	82610.00
43	Supply of ALL Material and installation of bullet type CCTV WITH ACCESSORIES	2.00	Nos.	4599.00	9198.00
44	Supply of ALL Material and installation of DP box with rack telephone	2.00	Nos.	3500.00	7000.00
45	Wiring for circuit/submain wiring with the following mentioned size PVC insulated, copper conductor(FRLS), single core cable (Finolex/Polycab/L&T) or any other equivalent reputed make ISI marked as approved, in surface/recessed PVC conduit medium,FRLS				
a	Single light/fan/ex.f point controlled by one 6A switch or first light/fan/exf/cb point or group control.modular GROUP-A	11.00	Nos	477.00	5247.00
b	Single light/fan/ex.f point controlled by one 6A switch or first light/fan/exf/cb point or group control.modular GROUP-B	9.00	Nos	535.00	4815.00
c	Single light/fan/ex.f/call bell point controlled by one 6A switch or first light/fan/exf/cb point or group control.modular GROUP-C	8.00	Nos	576.00	4608.00
46	subsequent point of group controlWiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.	6.00	Nos	374.00	2244.00
47	6A Plug on the same board with complete fitting by 01 no of 6A switch & socket (modular type) & other required accessories of ISI marked as approved	8.00	Nos	317.00	2536.00
a	6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type) cover,modular board & other required accessories of ISI marked as approved	7.00	Nos	339.00	2373.00
b	Supplying and fixing 15/16A modular socket with 15/16A Switch on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	7.00	Nos	424.00	2968.00
48	Wiring for circuit/submain wiring with the following mentioned size PVC insulated, copper conductor(FRLS), single core cable (Finolex/Polycab/L&T) or any other equivalent reputed make ISI marked as approved, in surface/recessed PVC conduit medium,FRLS (AKG or any other equivalent reputed make ISI marked as approved) FRLS as required.				
a	2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor.	77.00	Mtr	100.00	7700.00
b	2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor. (BDB to LSB/LIGHT CKT/5A PLUG)	69.00	Mtr	119.00	8211.00
c	2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 4 sq. mm copper wire for earth continuity conductor.	29.00	Mtr	148.00	4292.00
49	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.MAKE KINJAL/ AKG				
a	20 MM	12.00	Mtr	53.00	636.00
b	25 MM	12.00	Mtr	59.00	708.00
50	Supply and fixing modular type indicator on the existing switch box/cover of Anchor make.	5.00	Nos	107.00	535.00
51	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep with louvers (Havells make or any other equivalent reputed make star rated as approved) of exhaust fan in the existing wall, including fixing & conntection.	2.00	Nos.	3098.00	6196.00

52	Supplying, installation, testing and commissioning of 1200 mm sweep white/milky colour ceiling fan of Havells velocity/CROMPTRON JURA Make or any other equivalent reputed make star rated as approved including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required.(With fan Regulator)	9.00	Nos.	2585.00	23265.00
53	Supplying and fixing of 40 W LED Street light ,WIPRO WIPRO make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.	2.00	Nos.	2245.00	4490.00
54	Supplying and fixing of 18 Watt LED round Surface Fittings CAT No. LD80-171-XXX-60-SM , WIPRO make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.	8.00	Nos.	2070.00	16560.00
55	Supplying and fixing of 20 Watt LED Tube light Fittings CAT No. CAT No. LL20-281-XXX-65AL1** , WIPRO make or equivalent and any other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.	13.00	Nos.	1079.00	14027.00
56	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	121.00	Mtr	37.00	4477.00
57	Supplying, laying & testing of following size of PVC insulated XLPE sheathed / strip armoured aluminium / Copper conductor power cables of 1100 volt grade laid directly unground with sand cushioning, brick protection, clamped on surface of the walss / col				
	3core x 2.5 sq mm copper unarmoured cable.	111.00	Mtr.	141.00	15651.00
58	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	15.00	nos	362.00	5430.00
1	Providing and fixing white vitreous china pedestal type (European type/wash down type) water closet pan.				
	Cost of European water closet with P trap (SLICK) of Hindware 20011 (Pastel)	5.00	NOS	4574.40	22,872.00
2	Providing Table Top wash basin size 560mm x 450mm Make hindware having cat no - 10049 with 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 :				
	Wash basin size 560mm x 450mm of hindware make having cat no - 10049 PG-24)	8.00	NOS	3322.00	26,576.00
3	Providing and fixing 15mm dia Bib cock of Parryware of cat no-G3004A1 quality conforming to IS standards.				
	15 mm nominal bore	12.00	NOS	1276.00	15,312.00
4	Providing and fixing C.P. brass angle valve for Pillar Cocks long neck .15 mm nominal bore(Hindware Cat No-F730002)				
	15 mm nominal bore	15.00	NOS	1094.20	16,413.00
5	Supplying all materials, labour, T&P and fixing standard sized (Health Faucet) with double lock 1.0m brass plated flexible hose & wall hook of hidware having cat no - F160002 of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineering-in-charge.	5.00	NOS	2102.80	10,514.00
6	Providing and fixing 15mm dia CP angle stop cock of Hindware having cat no - F370006 approved make including all cost of materials complete as per PH specification.	12.00	NOS	2031.60	24,379.20
7	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.	8.00	NOS	2191.50	17,532.00

8	Supplying and fixing standard sized CP soap case (Cat no- F840004)Hind ware type of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineering-in-charge.					
			12.00	NOS	1408.60	16,903.20
9	Providing and fixing Stainless Steel kitchen sink Parryware (Cat no-C855371) with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
	Kitchen sink			NOS	6748.10	
10	Providing 15 mm dia Sink cock of Hindware having cat no - F210024 as per IS : 13983 and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
				NOS	2105.50	
11	Providing and fixing S.S grating .		8.00	NOS	644.60	5,156.80
12	Providing and fixing Urinal of Hindware of cat no-60005 quality conforming to IS standards.					
				NOS	2064.70	
13	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC pipe Conforming to IS:15778/2007(SDR 13.50), 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	20 mm dia		25.00	RM	620.00	15,500.00
b	32 mm dia		32.00	RM	1174.80	37,593.60
c	40mm dia		20.00	RM	1544.90	30,898.00
d	40mm dia TEE		17.00	NOS	50.61	860.37
e	40mm dia Elbow		30.00	NOS	33.17	995.10
f	32mm dia TEE		15.00	NOS	69.12	1,036.80
g	32mm dia Elbow		16.00	NOS	56.03	896.48
h	20mm dia TEE		22.00	NOS	32.61	717.42
i	20mm dia Elbow		15.00	NOS	29.90	448.50
14	Supplying all materials, labour, T&P, fitting and fixing of PVC SWR fittings of approved make with requisite testing etc complete as per PH specification and direction of Engineer-in-charge.					
	supreme rate moulded fittings					
a	100mm dia TEE		14.00	NOS	169.92	2,378.88
b	100mm dia bend 45		15.00	NOS	102.61	1,539.15
c	100mm dia Cowl		9.00	NOS	40.40	363.60
d	100mm clip		15.00	NOS	20.65	309.75
e	75mm dia TEE		14.00	NOS	86.14	1,205.96
f	75mm dia bend 45		15.00	NOS	83.25	1,248.75
g	75mm dia Cowl		7.00	NOS	26.00	182.00
15	Providing and fixing gun metal gate valve of approved quality (screwed end) :					
a	25mm Dia		9.00	NOS	1796.30	16166.70
b	32mm Dia		7.00	NOS	2740.90	19186.30
16	Cutting holes up to 30x30 cm in walls including making good the same:					
	With common burnt clay F.P.S. (non modular) bricks		15.00	NOS	186.90	2,803.50
17	Cutting holes up to 15x15 cm in R.C.C. floorsand 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		15.00	NOS	151.80	2,277.00

18	Supply and fixing PVC ' S ' deep trap wherever required or nanhi trap self cleansing design including jointing to waste pipe with or without vent and with CP grating 150mm nominal size square for nanhi traps, 100mm diameter of the inner hinged round grating for deep ' P ' or ' S ' trap, various inlet from 40 dia to 110 dia and various outlet from 75 dia to 110 dia with the extension boss tee connection at all levels with all necessary materials, labors, scaffoldings, tools and tackles, plants etc. complete as per the specification & direction of Engineer-in-charge.		5.00	NOS	418.50	2,092.50
20	Syntex Water Tank					
	2000ltr (India mart ,Model name-CCWS.200.01, Item Code-87841018)		2.0	Nos.	15000.00	30,000.00
21	A) Earth work in all kind soil with initial lead and lift including rough dressing in layers not exceeding 0.3m in depth and the Earth transported by transport vehicles as directed by the Engineer-in-charge.		20.55	CUM	162.54	3,340.26
22	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.		15.30	CUM	109.00	1,667.70
23	Supplying all labour, T&P for the Carriage of excavated earth by mechanical means of transport within 5.00 K.M. lead including hire and running charges of vehicles, labour charges for loading and unloading as required for the work etc. complete as per the direction of the Engineer-in-charge.		5.25	CUM	175.54	921.60
24	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC pipe Conforming to IS:15778/2007(SDR 13.50), 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.					
	Cost of pipe 32mm dia		25.00	RM	1174.80	29,370.00
	Cost of pipe 40mm dia		89.00	RM	1544.90	137,496.10
25	Supplying all materials, labour, T&P, fitting and fixing of CPVC fittings of approved make with requisite testing etc complete as per PH specification and direction of Engineer-in-charge.					
	supreme rate moulded fittings ADR-11					
	32mm dia Elbow		9.00	NOS	56.03	504.27
	32mm dia TEE		8.00	NOS	71.56	572.48
	40mm dia Elbow		7.00	NOS	60.00	420.00
	40mm dia TEE		6.00	NOS	74.00	444.00
26	Providing and fixing gm gate valves (with cap)complete with bolts,nuts, rubber insertions etc. (the tail pieces if required will be paid Separately					
	40mm Dia class II		7.00	NOS	927.00	6,489.00
27	Providing & fixing of gm body non return valve of approved make with high tensile brass rising stem suitable for the system pressure as per IS 780					
	32mm Dia		9.00	NOS	450.00	4,050.00
28	Supplying all materials, labour, T&P, fitting & fixing of different size bourden type pressure gauge of reputed make (0-10 kg/sqcm) with valves, piping, fitting of approved make including supply of all necessary jointing materials such as red lead paint, yarns etc. including cost, conveyance & taxes of all materials, T&P etc. all complete as per P.H. specification and as per the direction of the Engineer-in-charge. (MR)		1.00	SET	650.00	650.00

29	Supply, installation, testing and commissioning of automatic star delta control panel suitable for 1 HP Shallow well jet pump Single Phase 100 ltr with main switch ,contactor, single phasing preventer, timer, selector switch, voltmeter, ammeter etc and connection with motor inside the sump with suitable cable etc complete as per the Direction of Engineer-in-charge. (Excluding power supply)(KBL make MR)			1.00	SET	8800.00	8,800.00
30	Supply, installation, testing and commissioning of automatic star delta starter with cabling panel suitable for pumpset including MS box fitted with main switch ,contactor, single phasing preventer, timer, selector switch, voltmeter, ammeter etc and connection with motor inside the borewell complete as per the Direction of Engineer-in-charge. (Excluding power supply and flat cable for connection with motor)			1.00	SET	4500.00	4,500.00
31	A) Earth work in all kind soil with initial lead and lift including rough dressing in layers not exceeding 0.3m in depth and the Earth transported by transport vehicles as directed by the Engineer-in-charge.			2.26	cum	162.54	367.35
32	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.						
	In all kinds of soil			1.58	cum	180.34	285.30
	In hard rock			0.68	cum	204.20	138.45
33	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.			0.22	cum	317.60	69.87
34	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)			0.22	cum	4539.30	998.65
35	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in			1.59	cum	3596.50	5,718.44
36	Providing and laying in position ready mixed M-20 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of 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 the 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).						
	All works above plinth level upto floor V level						
	Slab			0.66	cum	8925.51	5,890.84
37	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
	Roof Slab			0.66	qtl	7616.80	5,027.09
38	well sink with top and bottom cover of min 50 mm thk.			16.00	nos	670.00	10,720.00
39	A) Earth work in all kind soil with initial lead and lift including rough dressing in layers not exceeding 0.3m in depth and the Earth transported by transport vehicles as directed by the Engineer-in-charge.			111.80	CUM	162.54	18,172.32
40	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.						
	In all kinds of soil			50.00	CUM	180.34	9,017.16
	In hard rock			22.40	CUM	204.20	4,574.08
41	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.			12.32	CUM	317.60	3,912.83
42	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						

	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	12.32	CUM	4539.30	55,924.18
43	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in	22.00	CUM	3596.50	79,123.00
44	Providing and laying in position ready mixed M-20 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of 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 the 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).				
	All works above plinth level upto floor V level				
	Slab	47.04	CUM	8925.51	419,855.99
45	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Roof Slab	37.56	qtl	7616.80	286,087.01
46	well sink with top and bottom cover of min 50 mm thk.	14.00	nos	670.00	9,380.00
47	Piping interlocking with all fittings and accessories	24.00	mtr	450.00	10,800.00
48	12 mm cement plaster of mix .:				
	1:4 (1 cement: 4 fine sand)	21.12	SQM	133.50	2,819.52
49	16 mm cement plaster on the rough side of single or half brick wall of mix :	21.12	SQM	191.20	4,038.14
50	A) Earth work in all kind soil with initial lead and lift including rough dressing in layers not exceeding 0.3m in depth and the Earth transported by transport vehicles as directed by the Engineer-in-charge.				
	In all kinds of soil	4.54	CUM	162.54	737.54
51	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	0.45	CUM	317.60	144.11
52	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	0.45	CUM	4539.30	2,059.71
53	Fly ash Brick masonry(23X11X8)cm in Cement Mortar(1:6) using bricks strength 75kg/sqcm	1.56	CUM	4073.00	6,364.06
54	Providing and laying in position ready mixed M-20 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of 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 the 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).				
	All works above plinth level upto floor V level				
	Slab	0.29	CUM	8925.51	2,543.77
55	Supplying, fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specifications in Ground Floor				
	Thermo-Mechanically Treated bars	0.00570	QTL	7616.80	43.42
56	12 mm cement plaster of mix .:				
	1:4 (1 cement: 4 fine sand)	4.50	SQM	133.50	600.75

57	16 mm cement plaster on the rough side of single or half brick wall of mix :					
		10.15	SQM	191.20		1,940.68
58	A) Earth work in all kind soil with initial lead and lift including rough dressing in layers not exceeding 0.3m in depth and the Earth transported by transport vehicles as directed by the Engineer-in-charge.					
	In all kinds of soil	4.13	CUM	162.54		670.49
59	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	0.52	CUM	317.60		163.76
60	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:4:8 (1 Cement : 4 coarse sand : 8graded stone aggregate 40 mm nominal size)	0.52	CUM	4207.70		2,169.60
61	Fly ash Brick masonry(23X11X8)cm in Cement Mortar(1:6) using bricks strength 75kg/sqcm	1.74	CUM	4073.00		7,102.29
62	Providing and laying in position ready mixed M-20 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of 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 the 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).					
	Slab	0.39	CUM	8925.51		3,497.68
63	Supplying, fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specifications in Ground Floor					
	Thermo-Mechanically Treated bars					
	Beyond 1.50mtr Depth	0.00784	QTL	7616.80		59.70
64	12 mm cement plaster of mix :.					
	1:4 (1 cement: 4 fine sand)	4.95	SQM	133.50		660.83
65	16mm cement plaster of mix :.	10.00	SQM	191.20		1,912.00
66	Cost of Pipe 100mm	83.0	mtr	351.00		29,133.00
67	Cost of Pipe 75mm	75.0	mtr	288.00		21,600.00
68	A) Earth work in all kind soil with initial lead and lift including rough dressing in layers not exceeding 0.3m in depth and the Earth transported by transport vehicles as directed by the Engineer-in-charge.					
	In all kind of soil	21.20	cum	162.54		3,445.91
69	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	18.30	cum	317.60		5,812.08
70	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	3.90	cum	4539.30		17,703.27
71	Supplying all materials, labour, T&P and construction man hole chamber of the following size with cement concrete(1:3:6) using 40mm size hard granite metal on bed, 1st class Fly ash brickwork in cement mortar(1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips,12mmthick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:1½:3) using 12mm size h.g chips with RCPC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge					
	Inside size 910mm x 910mm x 910mm	2.00	Each	14492.90		28,985.80
	Sinking of 200mmx150mm dia Production well through DTH Method-1 No					

72	Labour for drilling a perfectly vertical bore hole of specified dia for a specified depth below ground level through consolidated and unconsolidated rock with down the hole hammer drilling rig or combination rig as required to suit the site condition as per the direction of the Engineer in charge including use of own rig with its accessories, tools and plant and consumables etc for lowering of 200mm/150mm dia G.I/P.V.C/M.S casing pipes for housing fitted with socket and with or without well screen as per the necessity for soft, medium, hard and boulder formation(G.I/P.V.C/M.S casing pipes if required to prevent collapse of overburden is to be provided by the contractor including lowering and withdrawing after completion of the tube well), 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only					
	Drilling of 200mm dia bore 0mtr to 60mtr	60.00	Mtr	782.60	46,956.00	
	Drilling of 200mm dia bore 61mtr to 90mtr	30.00	Mtr	782.60	23,478.00	
	Drilling of 150mm dia bore 46mtr to 160mtr	100.00	Mtr	782.60	78,260.00	
73	Lowering the following size of G.I/P.V.C/M.S housing pipes with or without slotted pipes as per the necessity from ground level up to 45.00m depth and fitted and fixed up in perfectly vertical position including cutting and threading of pipes and slotted pipes and supplying and fixing all jointing materials, tools and plant etc all complete and keeping the top of casing pipe threaded including plugging tube wells to prevent entry of foreign materials.					
	Lowering of 200mm dia GI/P.V.C/MS casing pipes 0 mtr to 30 mtrs	60.00	Mtr	180.50	10,830.00	
	Lowering of 200mm dia GI/P.V.C/MS casing pipes 31 mtr to 45 mtrs	30.00	Mtr	180.50	5,415.00	
	Cost of 200mm dia P.V.C schedule-80 pipe	60.25	Mtr	1633.80	98,436.45	
74	Cleaning and developing the tube well with supply of compressor worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of the Engineer in charge					
	By DTH/Rotary Rig	1.00	Each	6586.00	6,586.00	
75	Supplying all materials and labour,tools and plant and providing sanitary sealing by cement concrete grouting of annular space around GI/PVC/MS housing pipe upto 5 mtrs below ground level(as per drawing)to plug the bore hole excluding cost of cement all complete as per direction of the Engineer in charge. Minimum one metre of casing pipe to be inserted in the bore into the rock the bottom to ensure sanitary sealing(excluding cost of cement which will be supplied by the Department).					
	Sanitary sealing upto 5mtrs below ground level.	1.00	Each	1173.10	1,173.10	
	CC(1:2:4)with 12mm chips for grouting upto 5 mtr.Depth in sanitary sealing.	0.20	Cum	5732.70	1,146.54	
76	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer in charge.					
	50mm dia brass or gun metal Non-return valve	1.00	Each	2080.40	2,080.40	
	40mm dia brass Fullway valve	1.00	Each	1720.80	1,720.80	
77	Supplying submersible pump with squirrel cage induction type submersible type submersible electric motor to run on 3 phase/1 phase line voltage ranging from 320 volt to 450 volt conforming to IS: 8034 - 2002 with following specifications					
a	1.5H.P Single phase 3 Stage Head range 30to 54 meter discharge	1.00	Set	15200.00	15,200.00	
b	DOL controll pannel	1.00	Each	3805.50	3,805.50	
c	4.0sqmm cable	45.00	Mtr	350.00	15,750.00	
d	32mm dia steel short piece	1.00	Each	152.30	152.30	
e	25mm dia HDPE Pipe	40.00	Mtr	91.50	3,660.00	
78	Labour charges for lowering of submersible pumpset with pipes and cables etc. with testing and commissioning at site.	1.00	job	2000.00	2,000.00	

79	Labour for drilling a perfectly vertical bore hole of specified dia for a specified depth below ground level through consolidated and unconsolidated rock with down the hole hammer drilling rigs or combination drilling rigs (650 cfm/ 200 psi) as required to suit the site condition as per the direction of Engineer-in-charge including use of own rigs with its accessories, tools and plant and consumables etc for lowering of 125 mm dia PVC/GI pipes for housing fitted with socket and with or without well screen as per the necessity for soft, medium, hard and boulder formation (GI/PVC casing pipes if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of the tube well).				
	Labour for drilling of 125x100 mm dia bore 00 mtr to 125 mtrs	250.00	Mtr	599.30	149,825.00
80	Lowering the following size G.I/ PVC pipes with or without slotted pipes as per the necessity from ground level and fitted and fixed up in perfectly vertical position, including cutting and threading pipe and slotted pipe and supplying and fixing all jointing materials, tools and plant etc. complete and keeping the top of the casing pipe threaded including plugging tube wells to prevent entry of foreign materials from above.				
	Labour for lowering of 125 mm dia casing pipe in bore 00 mtr to 45 mtrs	90.00	Mtr	107.60	9,684.00
	Cost of 125 mm dia casing Pipe	91.20	Mtr	700.00	63,840.00
81	Cleaning and developing the tube well using their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per the direction of Engineer-in-Charge.	2.00	Each	3227.10	6,454.20
82	India Mark 2 hand pump (1 set)	1.00	no.s	30,000.00	30,000.00
	Total				15,176,405.00

(One crores fifty one lakh Seventy Six thousand Four hundred five) only

My/ our quoted rate is% (both figure & words) excess over /less than /equal to the above Estimated cost.

Notes:

1. Strike out which are not applicable.
2. The contractor should not write any thing except quoting of percentage.
3. The Tender Committee may negotiate to execute the work @ Schedule of Rates as quoted above , when the %age is much higher than the above Rates.

Block Development Officer

Signature of Contractor

Subdega, Sundargarh

No. of Correction :-

No. of Overwriting :-

No. of Interpolation :-

Block Development Officer

Subdega, Sundargarh

