

**NAME OF PROJECT: CONSTRUCTION AND RENOVATION OMBADC
SCHOOL NO. 46 PURKAPALI PANCHAYATA HIGH SCHOOL AT
KUTRA BLOCK IN SUNDERGARH DISTRICT OF ODISHA**

BILL OF QUANTITIES(CIVIL WORK)

SL. NO	DESCRIPTION OF ITEM	QUANTIT Y	UNI T	RATE	AMOUNT
1	Site Cleaning including cutting of bushes and uprooting of stumps etc.	6133.28	Sqm	1.90	11,653.23
2	Earth Work in exavation of foundation in hard 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))	408.30	Cum	186.37	76,094.28
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)	915.23	Cum	682.00	624,189.25
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.	478.72	Sqm	77.68	37,188.31
		294.89	Sqm	80.10	23,620.69
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	18.75	Sqm	97.10	1,820.63
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	18.00	Sqm	50.50	909.00

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	148.17	Cum	1084.95	160,757.65
8	Dismantling & removing R.C.C columns beams, slab, staircase, landing, lintels, including stacking the useful materials for the reuse and removing the debris within 50 m lead.	4.13	Cum	1153.37	4,763.42
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)	707.31	Sqm	38.84	27,471.91
10	Dismantling & removing Doors, Windowss and ventilators including Removal of frame, hinges, fastening and stacking the useful materials for the reuse and removing the debris within 50 m lead.	80.52	Sqm	311.86	25,110.97
11	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	505.00	Sqm	70.78	35,743.90
12	Providing & fixing G.C.I. Sheet in roof including fixing of ridges wind ties etc. complete but excluding cost of fitting including drilling holes in wind ties etc. all complete(Page 126/33)	25.00	Sqm	851.40	21,285.00
13	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.	95.12	Cum	4635.22	440,917.54

14	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.	22.00	Cum	5916.49	130,162.78
15	12mm thick cement plaster (1 : 4) over brick work with cement punning for skirting per 1 Sqm.				-
	Ground Floor	276.85	Sqm	156.83	43,417.74
16	2.5cm thick Artificial Stone Flooring with CC 1:2:4 with 12mm size BHG chips including cost of all materials, labour, etc. complete. (Ref.: -A/R-2006,P-85,Item no -2)				-
		20.84	Sqm	302.53	6,304.64
16	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, royalti, taxes, etc. with watering and curing , all complete. (Item-4, AR-2006)				-
a.	Foundation RCC	74.34	Cum	4959.20	368,666.93
b.	Plinth Beam	18.37	Cum	5309.70	97,539.19
c.	Lintel Beam				
	Ground Floor	5.91	Cum	8441.13	49,887.08
d.	Chajja				
	Ground Floor	24.47	Sqm	776.00	18,990.27
e.	Roof Beam				
	Ground Floor	22.47	Cum	10590.39	237,966.06
f.	Columns RCC				
	Ground Floor	29.47	Cum	10590.39	312,098.79
g.	Slab RCC				

	Ground Floor	51.76	Cum	9022.00	466,978.72
h.	WALL				
	Ground Floor	0.79	Cum	9852.80	7,734.45
17	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	237.42	Qtl.	8876.66	2,107,503.63
18	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 (1:4) in Foundation and Plinth 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-2)				-
	Ground Floor	78.54	Cum	4376.13	343,715.82
19	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	205.86	Cum	4217.00	868,093.62

20	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	2085.06	Sqm	139.20	290,240.59
21	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	797.38	Sqm	198.03	157,905.99
22	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	353.81	Sqm	153.24	54,217.84
23	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.	647.92	Sqm	1266.61	820,661.42
	First Floor Qty.	283.82	Sqm	1287.48	365,412.15

24	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	38.83	Sqm	1161.44	45,098.54
25	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.	12.66	Sqm	1056.26	13,372.27
26	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)				-
	Ground Floor	783.75	Sqm	811.16	635,748.06
27	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	69.33	Sqm	1362.75	94,479.53
	First Floor Qty.	31.64	Sqm	1369.15	43,319.91

28	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	130.61	Sqm	1056.37	137,974.26
29	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.				-
	Ground Floor Qty.	42.27	Sqm	1152.40	48,712.09
30	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.	18.30	Sqm	1829.98	33,488.69
		14.45	Sqm	1850.85	26,744.85
31	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				
	Ground Floor	628.98	Sqm	85.90	54,029.38
	outside putty				-
	Ground Floor	459.13	Sqm	85.90	39,439.27

32	Priming 1 coat with Wall Primer water bond cement primer including all labour, materials etc. complete.				-
	Ground Floor	3579.16	Sqm	59.72	213,747.46
	First Floor	751.76	Sqm	63.55	47,774.48
33	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	1698.77	Sqm	80.49	136,728.76
	First Floor	471.95	Sqm	82.04	38,718.94
34	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	2953.09	Sqm	73.98	218,469.60
	first Floor	310.53	Sqm	76.56	23,774.15
35	Supplying of M.S. Door, Window with grills, Grills made out of M.S. Angle frame, M.S. Flat, Sheet etc of approved section & design, electrically welded properly with all necessary locking arrangement, and 1 coat red oxide primer including cost of all materials, labour charges, carriage of materials to site etc. complete.				-
	Ground Floor	985.50	Kg.	146.00	143,883.00
36	Priming one coat with Red Oxide primer including cost of primer & labour to give an even shade excluding cost of primer. (As per A.R.				-

	93/1)				
	Ground Floor	588.72	Sqm	53.53	31,514.18
37	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)				-
	Ground Floor	674.22	Sqm	133.88	90,264.57
38	Supplying of TATA PARVESH DOOR , (PLANE STEEL FINISH), Frame Profile (100X58) Single Rebate with 46mm, Shutter thickness, Shutter infill-Honycomb and Frame Infill-Puff.				-
	Ground Floor	8.00	Nos.	20051.0 0	160,408.00
39	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.				-
	Ground Floor	6.00	Nos.	25318.0 0	151,908.00
40	Supplying of TATA PARVESH VENTILATOR , Adjustable Ventilator With Grill				-

	Ground Floor	4.00	Nos.	10593.0 0	42,372.00
41	M.S Truss made out of Channel Section of different sizes of grade YST-310.				-
	Ground Floor Qty.	2556.75	Kg	70.70	180,762.23
42	Cost of Barbed Wire for installing in Boundary Fancing.				-
	Ground Floor Qty.	2686.00	Rmt	10.14	27,236.04
43	25mm thick CC 1:2:2 with 6mm size CB chips for grading concret over roof slab etc. complete.				-
	Ground Floor	345.74	Sqm	292.06	100,974.83
44	40mm thick grading concrete (1:2:4) on roof slab with 12mm & down grade size black hard granite chips for old work.				-
	Ground Floor	449.40	Sqm	598.43	268,936.26
45	3 Providing fitting and fixing of false ceiling with Aluminium anodised T Section No. 3215 with 2'-0" center to center, L section No. 1705 upto 15 micron on 4 walls to be fixed by means of steel screw and P.V.C plug and the Aluminium grid 2'-0"x2'-0" suspended from ceiling etc complete				-
	Ground Floor	107.28	Sqm	2430.06	260,696.84
					-

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,taxe s of all materials,labour,T & P etc.Complete as per direction of EIC.				-
	Ground Floor	500.00	Sqm	671.27	335,635.00
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).				-
	Ground Floor	42.75	Sqm	6849.10	292,799.24

48	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site by mechanical means within a lead of 5kms, spreading, grading to required slope and compacting to meet requirement of table 300-2 & Clause 305 of MoSRT&H Specifications for Road & Bridge works(4th Revision)				-
	Ground Floor	225.00	Sqm	137.52	30,942.06
49	Surface dressing of the ground including removing Vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish lead upto 50m (at least 5m away from the dressed area).				-
	Ground Floor	750.00	Sqm	180.00	135,000.00
50	Provision of soft surfaces such as grass lawns in between the open spaces				-
	Ground Floor	750.00	Sqm	350.00	262,500.00
51	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.				-
	Ground Floor	11.20	Rmt.	3515.29	39,371.22

A. TOTAL CIVIL AMOUNT

₹ 12,645,847.20

BOQ FOR INTERNAL & EXTERNAL SANITARY WORKS (TOILET BLOCK & REPAIRING WORK) FOR PURKAPALI PANCHAYAT HIGH SCHOOL, SUNDARGARH, ODISHA

Sl no	Description	Qty	Unit	Rate	Amount
	Internal Sanitary works				
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)	3.00	NOS	3322.00	9,966.00
3	Providing and fixing 15mm dia Bib cock of Parryware of cat no- G3004A1 quality conforming to IS standards.				
	15 mm nominal bore	9.00	NOS	1276.00	11,484.00
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	8.00	NOS	1094.20	8,753.60
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.	6.00	NOS	2102.80	12,616.80
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	3.00	NOS	2191.50	6,574.50

	screws and washers complete.				
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.	9.00	NOS	1408.60	12,677.40
9	Providing and fixing S.S grating .	9.00	NOS	644.60	5,801.40
10	Providing and fixing Urinal of Hindware of cat no- 60005 quality conforming to IS standards.	3.00	NOS	2064.70	6,194.10
11	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 thewalls etc.				
a	20 mm dia	25.00	RM	620.00	15,500.00
b	32 mm dia	20.00	RM	1174.80	23,496.00
c	40mm dia	21.00	RM	1544.90	32,442.90
d	40mm dia TEE	5.00	NOS	50.61	253.05
e	40mm dia Elbow	9.00	NOS	33.17	298.53
f	32mm dia TEE	8.00	NOS	69.12	552.96
g	32mm dia Elbow	8.00	NOS	56.03	448.24
h	20mm dia TEE	9.00	NOS	32.61	293.49
i	20mm dia Elbow	10.00	NOS	29.90	299.00
12	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	6.00	NOS	169.92	1,019.52
b	100mm dia bend 45	5.00	NOS	102.61	513.05
c	100mm dia Cowl	4.00	NOS	40.40	161.60

d	100mm clip	6.00	NOS	20.65	123.90
e	75mm dia TEE	6.00	NOS	86.14	516.84
f	75mm dia bend 45	7.00	NOS	83.25	582.75
g	75mm dia Cowl	4.00	NOS	26.00	104.00
13	Providing and fixing gun metal gate valve of approved quality (screwed end) :				
a	25mm Dia	5.00	NOS	1796.30	8,981.50
b	32mm Dia	4.00	NOS	2740.90	10,963.60
14	Cutting holes up to 30x30 cm in walls including making good the same:				
	With common burnt clay F.P.S. (non modular) bricks	12.00	NOS	186.90	2,242.80
15	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	10.00	NOS	151.80	1,518.00
16	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.	8.00	NOS	418.50	3,348.00
17	Supplying all materials, labour, T&P and fixing Wash Down Water Closet (European type W.C pan) with integral 'S' or 'P' trap to the floor with wooden plug and chromium plated screws including jointing the trap with soil pipe in cement mortar (1:1) etc all complete as per specification and direction of the Engineer in charge.				
	Matrix Set -1 (WB 65 x 35 with one pair mounting brackets, EWC & Cistern complete with fittings & seat cover, one no hinged rail 76 cm and five nos of grab rails 60 cm)	1.00	NOS	66589.40	66,589.40

18	Syntex Water Tank				
	2000ltr (India mart ,Model name- CCWS.200.01, Item Code- 87841018)	2	Nos.	15000.00	30,000.00
	EXTERNAL PH WORKS (WATER SUPPLY)				
19	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.	24.50	CUM	162.54	3,982.31
20	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.	20.30	CUM	109.00	2,212.70
21	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.	4.20	CUM	175.54	737.28
22	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 thewalls etc.				
	Cost of pipe 32mm dia	30.00	RM	1174.80	35,244.00
	Cost of pipe40mm dia	75.00	RM	1544.90	115,867.50
23	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.				
	supeme rate moulded fittings ADR- 11				
a	32mm dia Elbow	10.00	NOS	56.03	560.30

b	32mm dia TEE	6.00	NOS	71.56	429.36
c	40mm dia Elbow	5.00	NOS	60.00	300.00
d	40mm dia TEE	5.00	NOS	74.00	370.00
24	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	4.00	NOS	927.00	3,708.00
25	Providing & fixing of gm body non return valve of approved make with high tensile bress rising stem suitable for the system pressure as per IS 780				
	32mm Dia	6.00	NOS	450.00	2,700.00
26	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
27	Supply, installation, testing and commisioning 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, voltmetre, 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
28	Supply, installation, testing and commisioning 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, voltmetre, 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
	SOAK WAY PIT				

29	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
30	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	204.17	138.43
31	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	0.22	cum	682.00	150.04
32	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	4635.22	1,019.75
33	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	3590.60	5,709.05
34	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	9022.00	5,954.52
35	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	7883.01	5,202.79
36	well sink with top and bottom cover of min 50 mm thk.	16.0	nos	670.00	10,720.00
	SEPTIC PIT				
37	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
38	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	204.17	4,573.41
39	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	12.32	CUM	682.00	8,402.24
40	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	4635.22	57,105.91

41	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	3590.60	78,993.20
42	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	9022.00	424,394.88
43	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	7883.01	296,085.86
44	well sink with top and bottom cover of min 50 mm thk.	14.00	nos	670.00	9,380.00
45	Piping interlocking with all fittings and accessories	24	mtr	450.00	10,800.00
46	12 mm cement plaster of mix ::				
	1:4 (1 cement: 4 fine sand)	21.12	SQM	139.20	2,939.90
47	16mm cement plaster on the rough side of single or half brick wall of mix :	21.12	SQM	198.03	4,182.39
	GULLY TRAP				

48	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	3.63	CUM	162.54	590.03
49	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	0.36	CUM	682.00	247.57
50	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)	0.36	CUM	4635.22	1,682.58
51	Fly ash Brick masonry(23X11X8)cm in Cement Mortar(1:6) using bricks strength 75kg/sqcm	1.25	CUM	4217.00	5,271.25
52	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	0.23	CUM	9022.00	2,057.02

53	Supplying, fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specifications in Ground Floor				
	Thermo-Mechanically Treated bars	0.0046	QTL	7883.01	35.95
54	12 mm cement plaster of mix :.				
	1:4 (1 cement: 4 fine sand)	3.60	SQM	139.20	501.12
55	16 mm cement plaster on the rough side of single or half brick wall of mix :				
		8.12	SQM	198.03	1,608.00
	Inspection Chamber				
56	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
57	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.				
		0.52	CUM	682.00	351.66
58	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 : 8 graded stone aggregate 40 mm nominal size)	0.52	CUM	4300.73	2,217.56
59	Fly ash Brick masonry(23X11X8)cm in Cement Mortar(1:6) using bricks strength 75kg/sqcm				
		1.74	CUM	4217.00	7,353.39
60	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	9022.00	3,535.50
61	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	0.0078	QTL	7883.01	61.78
62	12 mm cement plaster of mix ::				
	1:4 (1 cement: 4 fine sand)	4.95	SQM	139.20	689.04
63	16mm cement plaster of mix ::	10.00	SQM	198.03	1,980.30
	SEWERAGE PIPE LINE TRENCH				
64	Cost of Pipe 100mm	68.0	mtr	351.0	23,868.00
65	Cost of Pipe 75mm	60.0	mtr	288.0	17,280.00
66	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	19.6	cum	162.54	3,185.85
67	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	14.50	cum	682.00	9,889.00
68	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).	5.10	cum	4635.22	23,639.62
	MANHOLE CHAMBER				

69	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, 12mm thick 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	1.00	Each	14492.90	14,492.90
	PRODUCTION WELL				
	Sinking of 200mmx150mm dia Production well through DTH Method-1 No				
70	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				
a	Drilling of 200mm dia bore 0mtr to 60mtr	60.00	Mtr	782.60	46,956.00
b	Drilling of 200mm dia bore 61mtr to 90mtr	30.00	Mtr	782.60	23,478.00
c	Drilling of 150mm dia bore 46mtr to 160mtr	100.00	Mtr	782.60	78,260.00
71	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.				
a	Lowering of 200mm dia GI/P.V.C/MS casing pipes 0 mtr to 30 mtrs	60.00	Mtr	180.50	10,830.00
b	Lowering of 200mm dia GI/P.V.C/MS casing pipes 31 mtr to 45 mtrs	30.00	Mtr	180.50	5,415.00
c	Cost of 200mm dia P.V.C schedule-80 pipe	60.25	Mtr	1633.80	98,436.45
72	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

73	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).				
a	Sanitary sealing upto 5mtrs below ground level.	1.00	Each	1173.10	1,173.10
b	CC(1:2:4)with 12mm chips for grouting upto 5 mtr.Depth in sanitary sealing.	0.20	Cum	5732.70	1,146.54
74	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.				
a	50mm dia brass or gun metal Non-return valve	1.00	Each	2080.40	2,080.40
b	40mm dia brass Fullway valve	1.00	Each	1720.80	1,720.80
75	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.				
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
76	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
	1 No of 125mm x 100mm size Tube well				

77	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	125.00	Mtr	599.30	74,912.50
78	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	45.00	Mtr	107.60	4,842.00
	Cost of 125 mm dia casing Pipe	45.60	Mtr	700.00	31,920.00
79	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.	1.00	Each	3227.10	3,227.10
80	India Mark 2 hand pump (1 set)				15,000.00
	Total amount				2,022,984.38

BOQ FOR Internal & External Electrical Installation Works of School (Smart Class, He & She Toilet Room & Repairing Work) 46 Govt. Purkapalli Panchyat High School, Sundergarh

Sl. No.	Description of items.	Qty		(IN FIGURES)	
	SMART CLASS				
	Internal Wiring Items)				
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	41.0	Nos	477.00	19557.00
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	12.0	Nos	535.00	6420.00
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	11.0	Nos	576.00	6336.00
2	subsequent point of group controlWiring for group controlled (looped) lightpoint/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.	8.0	Nos	374.00	2992.00
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	10.0	Nos	317.00	3170.00
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	8.0	Nos	339.00	2712.00
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)	6.0	Nos	506.00	3036.00
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.	6.0	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	51.0	Mtr	100.00	5100.00

	sq. mm copper wire for earth continuity conductor.				
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)	51.0	Mtr	119.00	6069.00
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.	15.0	Mtr	148.00	2220.00
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)	18.0	Mtr	192.00	3456.00
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)	19.0	Mtr	256.00	4864.00
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)	11.0	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.	8.0	Nos	931.00	7448.00
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	8.0	Nos	961.00	7688.00
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	12.0	Mtr	53.00	636.00
b)	25 MM	8.0	Mtr	59.00	472.00
11	Supply and fixing modular type indicator on the existing switch box/cover of Anchor make.	4.0	Nos	107.00	428.00
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.	8.0	Nos	553.00	4424.00
Light fitting & Fixture					
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.	2.0	Nos.	3098.00	6196.00

14	Supplying, installation, testing and commissioning 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)	4.0	Nos.	2759.00	11036.00
15	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)	10.0	Nos.	2585.00	25850.00
a)	Supply delivery, installation, testing & commissioning of 400 mm size wallfan similar to Havells Pacer or equivalent complete etc.as required..with accessories	8.00	Nos.	1803.00	14424.00
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.	2.0	Nos.	2245.00	4490.00
17	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.	8.0	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.	22.0	Nos.	1079.00	23738.00
19	Supplying & installation, testing and commissioning of prewired, 36Watt LED round surface fittings of wipro MAKE , CAT No. LD30-171-XXX-57-SMG1 or equivalent	6.00	Nos.	5257.00	31542.00
20	Supplying & installation, testing and commissioning of prewired, 20Watt LED round concealed fittings of wipro MAKE , or equivalent	10.0	Nos.	1954.00	19540.00
21	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 .	14.0	Nos.	28.00	392.00
Branch Distribution Boards					
22	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 categories reputed make ISI				

	marked as approved				
	8 way, Double Door SPN DB (FOR LIGHT/POWER/UPS)(02 nos 01 for room & 01 for repair)	3.0	Nos	1489.00	4467.00
23	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 categories reputed make ISI marked as approved in the existing MCB DB complete with connections.	24.0	Nos	156.00	3744.00
24	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.	2.0	Nos	1680.00	3360.00
25	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.	3.0	Nos	1829.00	5487.00
	Earthing				
26	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 masonry 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.	2.0	Nos	4785.00	9570.00
27	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.	41.0	Mtr	100.00	4100.00
28	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.	15.0	Mtr	37.00	555.00
29	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required.	15.0	Mtr	854.00	12810.00
	Distribution Panel Boards(NEW & REPAIR for all area)				
30	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, primed 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.				
a)	MDB AT OFFICE ROOM STARE				
	Incomer:1 100A(63-100A) 4P MCCB(25 KA) with adjustable thermal setting+NL				
	1 no. 40A 4P onload change over switch				
	Bus bar: 4 nos. 125A Busbar duly sleeved & 60A E.C bus for Dg.				
	Outgoing:				
	1 No 40A 4P MCB.'C' (10kA)				
	4 Nos 6A 1P MCB.'C' (10kA)				
	6 Nos 32A 2P MCB 'C' (10kA)				
	1 No 40A 2P MCB 'C' (10kA)				
	Provision for SPD.				
	Instruments: 2 set.LED type phase indicating lamps with control fuses				
	1 no.100/5A CT operated Digital ammeter				
	2nos.0-500V Digital voltmeter				
	Complete duly factory wired as per SLD and panel should have proper earth by suitable rated copper flat.	1.0	Set	36200.00	36200.00
	Cable and HDPE Pipe				
31	Supplying, laying & testing of following size of PVC insulated XLPE shethed / 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.	22.0	Mtr.	141.00	3102.00
b)	3core x 6 sq mm copper unarmoured cable.	26.0	Mtr.	77.00	2002.00
c)	3.5 core x 35 sq mm Aluminium armoured Cable.	45.0	Mtr.	243.00	10935.00
32	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.	2.0	Nos	185.00	370.00
33	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	21.0	mtrs	202.00	4242.00
34	Supply of materials, Fixing of G.I perforated cable tray along with hanging arrangements & supports fabrication complete. For following sizes.				
a)	100x50x50x1.6mm thick.	18.0	Mtr	466.00	8388.00
35	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	14.0	Nos	362.00	5068.00

	long and fixing the same in ground as required.				
	SAFETY EQUIPEMENT				
36	Supply , installation ,testing & commissioning of following safety equipments for school				
	a) First aid box with standard item.	2.0	Each	767.05	1534.10
	b) As Foam type fire extinguisher (9 liters)as per IS	2.0	Each	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	2.0	Each	1900.38	3800.75
	DIGITAL WORK COMPUTER & CCTV				
37	Supply, delivery, installation & testing of 5KVA single phase UPS with 1 hour battery backup for emergency lighting and computers.	1.0	Nos.	155439.00	155439.00
38	Supplying and laying of CAT6 LAN WIRE protected with PVC sheath inthe existing surface/ recessed steel/ PVC conduit as required(1 run)	111.0	Mtrs	38.00	4218.00
39	Supply & laying of the 4 pair,0.5 sqmm telephone cables in existing surface/ recessed conduit etc. as required.	15.0	Mtrs	20.00	300.00
40	Supply of Material and installation of RJ 45 UTP information outlet.	8.00	Nos.	677.00	5416.00
41	Supply of ALL Material and installation of DP box with rack data	1.0	Nos.	8500.00	8500.00
42	Supply of Material and installation of RJ 11 Telephone socket.	1.0	Nos.	321.00	321.00
43	Supply of ALL Material and installation of CCTV Serveyline accessories	1.0	Nos.	7510.00	7510.00
44	Supply of ALL Material and installation of bullet type CCTV WITH ACCESSORIES	6.0	Nos.	4599.00	27594.00
45	Supply of ALL Material and installation of DP box with rack telephone	2.0	Nos.	3500.00	7000.00
46	Supply, fitting, fixing, commissioning and testing of 25 W cabinet speakerBuilt-in 100v/70v transformer, 4" +1.5" coaxial speaker unit.Power output RMS 30W @100V. Built-in crossover for hi-fi level use. Metal grille and metal baffle. (Make- Electro Voice/ Bosch/ Bose/ JBL)	6.0	Each	8710.00	52260.00
47	Wiring with of 2.5 Sq.MM Unarmoured Flexible Speaker Cable as per site with 2mm thick rigid 25 mm PVC pipe, modular boxes, plate, fitting, fixing, connecting and testing of the same etc. as required. (Make-Finolex/ Liberty)	45.0	Mtr	175.00	7875.00
	TOILET SHE				
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				
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	5.0	Nos	475.00	2375.00
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	2.0	Nos	533.00	1066.00

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	1.0	Nos	574.00	574.00
49	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.	2.0	Nos	372.00	744.00
50	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	1.0	Nos	316.00	316.00
51	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.	11.0	Mtr	100.00	1100.00
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)	11.0	Mtr	118.00	1298.00
52	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	5.0	Mtr	53.00	265.00
b)	25 MM	5.0	Mtr	59.00	295.00
53	Supply and fixing modular type indicator on the existing switch box/cover of Anchor make.	2.0	Nos	106.00	212.00
Light fitting & Fixture					
54	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 & connection.	4.0	Nos.	3097.00	12388.00
55	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.	1.0	Nos.	2244.00	2244.00
56	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.	1.0	Nos.	2069.00	2069.00
57	Supplying and fixing of 20 Watt LED Tube light Fittings CAT No. CAT No. LL20-281-XXX-65AL1** , WIPRO make or equivalent and any	2.0	Nos.	1078.00	2156.00

	other reputed make of approved quality including supply and fixing of led lamp with connection etc. as required.				
	Earthing				
58	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.	25.0	Mtr	37.00	925.00
	Cable and HDPE Pipe				
59	Supplying, laying & testing of following size of PVC insulated XLPE shethed / 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.	25.0	Mtr.	141.00	3525.00
60	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.	11.0	Nos.	361.00	3971.00
	TOILET HE				
61	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	8.0	Nos	475.00	3800.00
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	4.0	Nos	533.00	2132.00
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	2.0	Nos	574.00	1148.00
62	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.	2.0	Nos	372.00	744.00
63	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	1.0	Nos	316.00	316.00
64	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.	11.0	Mtr	100.00	1100.00
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)	11.0	Mtr	118.00	1298.00
65	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	5.0	Mtr	53.00	265.00
b)	25 MM	5.0	Mtr	59.00	295.00
66	Supply and fixing modular type indicator on the existing switch box/cover of Anchor make.	2.0	Nos	106.00	212.00
	Light fitting & Fixture				0.00
67	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 & connection.	4.0	Nos.	3097.00	12388.00
68	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.	1.0	Nos.	2244.00	2244.00
69	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.	1.0	Nos.	2069.00	2069.00
70	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.	2.0	Nos.	1078.00	2156.00
	Earthing				
71	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.	25.0	Mtr	37.00	925.00
	Cable and HDPE Pipe				
72	Supplying, laying & testing of following size of PVC insulated XLPE shethed / 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 complete 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.	25.0	Mtr.	141.00	3525.00
73	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.	11.0	Nos.	361.00	3971.00
REPAIRING					
74	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	16.0	Nos	477.00	7632.00
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	12.0	Nos	535.00	6420.00
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	8.0	Nos	576.00	4608.00
75	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.	8.0	Nos	374.00	2992.00
76	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	25.0	Nos	317.00	7925.00
77	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	28.0	Nos	339.00	9492.00
78	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)	4.0	Nos	506.00	2024.00
79	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.	6.0	Nos	424.00	2544.00

80	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.	111.0	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)	45.0	Mtr	119.00	5355.00
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.	22.00	Mtr	148.00	3256.00
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)	11.0	Mtr	192.00	2112.00
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)	11.0	Mtr	315.00	3465.00
81	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.	2.0	Nos	931.00	1862.00
82	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	2.0	Nos	961.00	1922.00
83	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	12.0	Mtr	53.00	636.00
b	25 MM	12.0	Mtr	59.00	708.00
84	Supply and fixing modular type indicator on the existing switch box/cover of Anchor make.	11.0	Nos	107.00	1177.00
85	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	2.0	Nos	553.00	1106.00

	suitable size including mouldlar cover.				
	Light fitting & Fixture				
86	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 & connection.	3.0	Nos.	3098.00	9294.00
87	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)	4.0	Nos.	2759.00	11036.00
88	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)	14.0	Nos.	2585.00	36190.00
a	Supply delivery, installation, testing & commissioning of 400 mm size wall fan similar to Havells Pacer or equivqlent complete etc.as required..with accessories	8.0	Nos.	1803.00	14424.00
89	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.	3.0	Nos.	2245.00	6735.00
90	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.	10.0	Nos.	2070.00	20700.00
91	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.	32.0	Nos.	1079.00	34528.00
92	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 2x10 cm .	45.0	Nos.	28.00	1260.00
	Branch Distribution Boards				
93	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 categories reputed make ISI marked as approved				
	8 way, Double Door SPN DB (FOR LIGHT/POWER/UPS)(02 nos 01 for room & 01 for repair)	2.0	Nos	1489.00	2978.00
94	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 categories reputed make ISI marked as approved in the existing MCB DB complete with connections.	16.0	Nos	156.00	2496.00
95	Supplying and fixing 25Amps DP 240 volts, RCCB,300mA Legrand/L&T/Siemens make or any other reputed equevallent A categories make ISI marked as approved in the existing MCB DB complete with connections.	2.0	Nos	1680.00	3360.00
96	Supplying and fixing 40Amps DP 240 volts, RCCB,300mA Legrand/L&T/Siemens make or any other reputed equevallent A categories make ISI marked as approved in the existing MCB DB complete with connections.	2.0	Nos	1829.00	3658.00
	Earthing				
97	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 masonry 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.	2.0	Nos	4785.00	9570.00
98	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.	88.0	Mtr	100.00	8800.00
99	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.	45.0	Mtr	37.00	1665.00
100	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required.	15.0	Mtr	854.00	12810.00
	Distribution Panel Boards(REPAIR for all area)				
101	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.				
a	MDB AT OFFICE ROOM STARE				
	Incomer:1 100A(63-100A) 4P MCCB(25 KA) with adjustable thermal setting+NL				
	1 no. 40A 4P onload change over switch				
	Bus bar: 4 nos. 125A Busbar duly sleeved & 60A E.C bus for Dg.				
	Outgoing:				
	1 No 40A 4P MCB.'C' (10kA)				
	4 Nos 6A 1P MCB.'C' (10kA)				
	6 Nos 32A 2P MCB 'C' (10kA)				
	2 No 40A 2P MCB 'C' (10kA)				
	Provision for SPD.				
	Instruments: 2 set.LED type phase indicating lamps with control fuses				
	1 no.100/5A CT operated Digital ammeter				
	2nos.0-500V Digital voltmeter				
	Complete duly factory wired as per SLD and panel should have proper earth by suitable rated copper flat.	1.0	Set	36200.00	36200.00
	Cable and HDPE Pipe				
102	Supplying, laying & testing of following size of PVC insulated XLPE shethed / 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.	67.0	Mtr.	141.00	9447.00
b	3core x 6 sq mm copper unarmoured cable.	56.0	Mtr.	77.00	4312.00
c	3.5 core x 35 sq mm Aluminium armoured Cable.	71.0	Mtr.	243.00	17253.00
103	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.	2.0	Nos	185.00	370.00
104	Providing and laying of fallowing dia HDPE pipe (medium class) in ground complete with HDPE fitting incl. trenching(75 mm depth)and refilling.				
b	63 mm Dia, PN-6, PE-80, HDPE pipe	21.0	mtrs	202.00	4242.00
105	Supply of materials, Fixing of G.I perforated cable tray along with hanging arrangements & supports fabrication complete. For following sizes.				
a)	100x50x50x1.6mm thick.	12.0	Mtr	466.00	5592.00
106	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	12.0	Nos	362.00	4344.00

	mm X 35 mm X 6 mm angleiron, 60 cm long and fixing the same in ground as required.				
	SAFETY EQUIPEMENT				
107	Supply , installation ,testing & commissioning of following safety equipments for school				
	a) First aid box with standard item.	4.0	Each	767.05	3068.20
	b) As Foam type fire extinguisher (9 liters)as per IS	1.0	Each	5343.48	5343.48
	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	1.0	Each	1900.38	1900.38
	DIGITAL WORK COMPUTER & CCTV				
108	Supplying and laying of CAT6 LAN WIRE protected with PVC sheath inthe existing surface/ recessed steel/ PVC conduit as required(1 run)	56.0	Mtrs	38.00	2128.00
109	Supply & laying of the 4 pair,0.5 sqmm telephone cables in existing surface/ recessed conduit etc. as required.	43.0	Mtrs	20.00	860.00
110	Supply of Material and installation of RJ 45 UTP information outlet.	6.0	Nos.	677.00	4062.00
111	Supply of ALL Material and installation of DP box with rack data	1.0	Nos.	8500.00	8500.00
112	Supply of Material and installation of RJ 11 Telephone socket.	6.0	Nos.	321.00	1926.00
113	Supply of ALL Material and installation of CCTV Serveyline accessories	1.0	Nos.	7510.00	7510.00
114	Supply of ALL Material and installation of bullet type CCTV WITH ACCESSORIES	4.0	Nos.	4599.00	18396.00
115	Supply of ALL Material and installation of DP box with rack telephone	1.0	Nos.	3500.00	3500.00
		1,125,380.85			
		1,125,381.00			
	AMOUNT(IN WORDS) RUPEESONLY				

**NAME OF PROJECT: CONSTRUCTION AND RENOVATION OMBADC SCHOOL NO. 46
PURKAPALI PANCHAYATA HIGH SCHOOL AT KUTRA BLOCK IN SUNDERGARH
DISTRICT OF ODISHA**

OUTDOOR AND INDOOR FURNITURES LIST

Sl. No.	DESCRIPTION OF ITEMS	No.	UNI T	RATE	AMOUNT IN RS.
----------------	-----------------------------	------------	--------------	-------------	----------------------

Contractor

Block Development Officer,Kutra

1	OFFICE CHAIR	15	Nos	4500.00	67500
2	OFFICE TABLE	10	Nos	3400.00	34000
3	OFFICE RACK	2	Nos	5000.00	10000
4	HEAD MASTER CHAIR	2	Nos	10600.00	21200
5	HEAD MASTER TABLE	1	Nos	12000.00	12000
6	HEAD MASTER RACK	2	Nos	13500.00	27000
7	GREEN OR WHITE BOARD	10	Nos	7059.9	70599
8	NOTICE BOARD	3	Nos	7059.9	21179.7
9	DUSTBIN	3	Nos	3300.00	9900
10	WAIST TWISTER	4	Nos	100000.00	400000
11	WATER PURIFIER	3	Nos	72000.00	216000
12	PROJECTOR	2	Nos	42000.00	84000
13	LCD TV	1	Nos	82000.00	82000
	Total				1,055,378.70
	Over head charges and contractor profits 15%	15%			158306.81
	Sub Total				1213685.51
	Add labour cess 1%	1%			12136.86
	GRAND TOTAL				1225822.36

Quoted Rate by the Tenderer-

1	() Percentage excess over the Estimated Value		
2	() Percentage Less over the Estimated Value		
3	() Percentage at Par with the Total Estimated Value		

CONTRACTOR

No. of Corrections.....

No of Overwrittings.....

No of interpolations.....

Contractor

Block Development Officer, Kutra