

## BILL OF QUANTITY

Name of the work :-

**Construction of 4 Nos (Flat type) E - Type Quarters at Pithagola PHC under Harichandanpur Block for the year 2022-23 under OMBADC.**

**TENDER AMOUNT**

Rs. 7626226.00

**EMD @ 1%**

Rs.76500.00

**COST OF TENDER PAPER**

Rs 10000.00

**TIME OF COMPLETION**

Twelve months

**CLASS OF CONTRACTOR**

B

SI No	Item of Work	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
1	Earth work in excavation of foundation in hard soil or gravelly soil within 50 m initial lead and initial lift, including dressing and levelling the bed etc. complete	174.96	Each cum	219.77	38450.96
2	Filling in foundation and plinth with excavated earth including watering and ramming as directed by the E.I.C. etc. complete	174.96	Each cum	146.51	25633.39
3	Supplying and filling foundation and plinth with sand wall watered and rammed with cost conveyance and royalty, taxes of all materials and labour (T&P) etc. complete.	193.89	Each cum	842.22	163298.04
4	Cement Concrete (1:3:6) in Foundation using 4 cm size bhg metal including watering, curing with cost, conveyance, royalty and taxes of all materials and cost of all labour (T&P) etc. complete as per the direction of Engineer-in-Charge.	48.22	Each cum	4697.18	226498.02
5	Cement Concrete (1:1.5:3) using 12mm size cbhg chips including watering, curing with cost, conveyance, royalty and taxes of all materials and cost of all labour (T&P) etc. complete as per the direction of Engineer-in-Charge.	11.72	Each cum	6896.23	80823.82
6	R.C.C. M20 using 20 mm & down size b.h.g.c.b chips including watering, curing with cost, conveyance, taxes and cost of all labour (T&P) etc. complete as per the direction of Engineer-in-Charge.				
A	Foundation footing	24.37	Each Cum	5176.98	126163.00
B	Plinth Beam	10.74	Each Cum	5544.32	59546.00
C	Column and Beams				
a	GF	17.67	Each Cum	11116.45	196427.67
b	FF	11.15	Each Cum	12412.75	138402.16
c	2nd F	2.11	Each Cum	13333.54	28133.77

D	Lintel				
a	GF	5.88	Each Cum	8839.84	51978.26
b	FF	5.88	Each Cum	9680.82	56923.22
E	Sunshade				
a	GF	19.31	Each Sqm	813.10	15700.96
b	FF	17.02	Each Sqm	913.82	15553.22
c	2nd F	1.40	Each Sqm	913.82	1279.35
F	R.C.C Shelves				
a	GF	9.63	Each Sqm	782.06	7531.24
b	FF	9.63	Each Sqm	940.24	9054.51
G	R.C.C Stair				
a	GF	1.94	Each Cum	10633.41	20628.82
b	FF	1.94	Each Cum	10869.81	21087.43
H	Roof slab,landing & Chajja				
a	GF	18.85	Each Cum	9445.32	178044.28
b	FF	23.70	Each Cum	10381.90	246051.03
c	2nd F	1.80	Each Cum	10443.62	18798.52
7	Cutting, Bending, binding and tying the grills and placing in position including cost, conveyance, taxes of all materials and cost of all labour (T&P) etc. complete as per the direction of Engineer-in-Charge.				
a	GF	92.26	Each Qntl	9218.28	850478.51
b	FF	50.90	Each Qntl	10601.02	539591.92
c	2nd F	2.76	Each Qntl	12191.17	33647.63
8	20mm thick C.P. (1:4) as grading plaster including watering, curing, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	FF	107.74	Each Sqm	241.75	26046.15
b	2nd F	17.94	Each Sqm	246.77	4427.05
9	Fly Ash Brick masonry with CM (1:6) in foundation including watering, curing with cost, conveyance, royalty and taxes of all materials & labour (T&P) etc. complete as per the direction of Engineer-in-Charge.	54.24	Each Cum	4550.61	246825.09

10	Fly Ash Brick masonry with CM (1:6) in superstructure including watering, curing with cost, conveyance, royalty and taxes of all materials & labour (T&P) etc. complete as per the direction of Engineer-in-Charge.				
a	GF	77.33	Each Cum	4583.94	354476.08
b	FF	84.84	Each cum	5271.52	447235.76
c	2nd F	17.77	Each cum	4583.94	81456.61
11	16mm thick C.P. (1:6) including watering, curing, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	GF	493.72	Each Sqm	213.37	105345.04
b	FF	494.42	Each Sqm	217.85	107709.40
c	2nd F	89.72	Each Sqm	224.31	20125.09
12	12mm thick C.P. (1:6) including watering, curing, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	GF	273.65	Each Sqm	150.14	41085.81
b	FF	203.44	Each Sqm	155.14	31561.68
c	2nd F	88.82	Each Sqm	162.74	14454.57
13	Supplying, fitting, fixing of Vetrified tile flooring on 20mm thick bed of C.M. (1:4) jointed with neat cement slurry & pigment to match the shade including watering & curing with cost, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	GF	137.06	Each Sqm	982.26	134628.56
b	FF	137.06	Each Sqm	1007.52	138090.69
14	Supplying, fitting, fixing of Vetrified tile in dados on 12mm thick C.P. (1:3) jointed with neat cement slurry & pigment to match the shade including watering & curing with cost, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	GF	11.40	Each Sqm	1415.46	16136.24
b	FF	11.40	Each Sqm	1489.66	16982.12

15	Supplying, fitting, fixing of Ceramic Glazed Wall tile in walls on 12mm thick C.P. (1:3) jointed with neat cement slurry & pigment to match the shade including watering & curing with cost, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	GF	72.26	Each Sqm	1105.42	79877.65
b	FF	72.26	Each Sqm	1200.99	86783.54
16	Fixing tiles (Vitrified Industrial Tiles) in floors treads or steps and landing on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 sand) jointed with neat cement slurry mixed with pigment to match the shades of the tiles including rubbing and polishing with cost, conveyance of all materials etc. complete.				
a	GF	39.77	Each Sqm	1250.76	49742.73
b	FF	17.02	Each Sqm	1270.03	21615.91
17	Fixing Granite tiles (20mm thick) in floors treads or steps and landing on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 sand) jointed with neat cement slurry mixed with pigment to match the shades of the tiles including rubbing and polishing with cost, conveyance of all materials etc. complete.				
a	GF	11.88	Each Sqm	2554.02	30341.76
b	FF	11.88	Each Sqm	3070.11	36472.91
18	6mm thick C.P. (1:4) as ceiling plaster including watering, curing, conveyance, royalty & all taxes of materials & labour with T&P required for the work etc. complete as per direction of Engineer-in-Charge.				
a	GF	126.07	Each Sqm	164.33	20717.08
b	FF	151.53	Each Sqm	167.84	25432.80
19	Providing, supplying and fitting and fixing of M.S. Door / Window shutters, gates & M.S. grills as per approved design etc. complete. M.S. Grill	2212.00	Each KG	95.62	211511.44
		1914.75	Each KG	153.91	294699.17
20	Supplying, fitting afixing of stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc. with cost conveyance, taxes of all materials labour, T&P etc. required for the complete as per the direction of Engineer-in-Charge.	14.63	Each Rmt	3513.40	51401.04
21	Wall painting two coat with plastic emulsion paint over a coat of priming including cost of all meterials and labour etc.				
a	GF	385.82	Each Sqm	146.37	56472.47

b	FF	386.64	Each Sqm	162.06	62658.88
22	Finishing wall surface with Acrylic wall putty( water based of approved make and finished smooth and even to receive paint including cost of scaffolding etc complete				
a	GF	385.40	Each Sqm	77.67	29934.02
b	FF	386.64	Each Sqm	79.26	30645.09
23	Finishing out side wall surface with Weather Coat (I.S.I) two coats with any approved shade over a coat of priming including cost of all materials and labour (T&P) etc. complete as per the direction of Engineer-in-Charge.				
a	GF	273.36	Each Sqm	139.85	38229.40
b	FF	349.36	Each Sqm	165.11	57682.83
24	Painting two coats over a coat of primer with any approved Enamel paints including cost, conveyance of all materials and labour (T&P) etc. complete as per the direction of Engineer-in-Charge.				
a	GF	66.70	Each Sqm	200.57	13378.02
b	FF	103.71	Each Sqm	225.29	23364.83
25	Providing and laying 60 mm thick factory made cement concrete interlocking pavor block of M-30 grade made by block make machine with strong vibratory compaction of approved size ,design and shape laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand ,filling the joint with fine sand etc. all complete as per the direction of engineer-in-charge.	28.24	Each Sqm	1017.55	28735.63
				<b>Total Civil</b>	<b>6186008.83</b>
<b>PH WORK</b>					
<b>A) Internal PH. Works</b>					
1	Supplying all materials , labour, T&P and providing and fixing to wall or ceiling and floor PVC pipes conforming to ASTM-D-1785/89 ( Sch-80 ) and G.I pipe fittings of the following nominal bore with clamps including making good the wall, ceiling and floor ,testing all complete as per P.H. specification and direction of Engineer-in-charge				
a)	<b>15mm dia ASTM ( Sch-80 ) PVC Pipe</b>				
i	In Ground floor	15.00	mtr	118.50	1777.50
ii	In First floor	15.00	mtr	124.30	1864.50
b)	<b>20mm dia ASTM ( Sch-80 ) PVC Pipe</b>				
i	In Ground floor	10.00	mtr	135.90	1359.00
ii	In First floor	10.00	mtr	142.10	1421.00
c)	<b>25mm dia ASTM ( Sch-80 ) PVC Pipe</b>				
i	In Ground floor	10.00	mtr	186.90	1869.00
ii	In First floor	10.00	mtr	193.00	1930.00
d)	<b>32mm dia ASTM ( Sch-80 ) PVC Pipe</b>				

	i In Ground floor	10.00	mtr	245.70	2457.00
	ii In First floor	10.00	mtr	253.50	2535.00
e)	<b>40mm dia ASTM ( Sch-80 ) PVC Pipe</b>				
	i In Ground floor	10.00	mtr	323.10	3231.00
	ii In First floor	10.00	mtr	333.00	3330.00
2	Supplying all materials,labour,T&P and cutting holes through existing brick work including making good the damages in cement mortar(1:4) for taking GI pipes and fittings/PVC pipes and fittings etc.all complete as per PH specification and direction of the Engineer-in-charge.				
a)	<b>250mm thick wall</b>				
	i In Ground floor	6	each	46.30	277.80
	ii In First floor	6	each	47.20	283.20
3	Supplying all materials , labour, T&P and cutting holes in RCC floors and roofs upto 19cm thick for passing P.V.C pipes and G.I fittings etc. , and repairing the holes after insertion of pipe etc. with cement concrete (1:2:4) including finishing complete so as to make it leak-proof as per P.H. specification and direction of Engineer-in-charge				
	i In Ground floor	3	each	158.70	476.10
	ii In First floor	3	each	159.40	478.20
4	Supplying all materials , labour, T&P and cutting grooves in pucca floors and walls for taking P.V.C pipes and G.I fittings etc. and making good the damages including finishing complete as per P.H. specification and direction of Engineer in-charge				
	i In Ground floor	15.00	mtr	167.90	2518.50
	ii In First floor	15.00	mtr	172.90	2593.50
5	Supplying all materials , labour, T&P and fitting and fixing brass/CP fittings of following nominal bore with supply of all jointing materials complete as per P.H. specification and direction of Engineer-in-charge				
	i 15mm dia. C.P angle stop cock ( Jaquar make )	16	each	1552.50	24840.00
	ii 15mm dia.long body C.P bib cock ( Jaquar make )	9	each	1840.00	16560.00
	iii 20mm dia. C.P concealed stop cock ( Jaquar make)	8	each	1246.80	9974.40
	iv 25mm dia. Brass Full Way Valve ( Shakti make )	6	each	927.30	5563.80
	v 32mm dia. Brass Full Way Valve ( Shakti make )	6	each	1357.50	8145.00
	vi 40mm dia. Brass Full Way Valve ( Shakti make )	4	each	1724.00	6896.00
	vii 50mm dia. Brass Full Way Valve ( Shakti make )	2	each	2553.20	5106.40
	viii 15mm dia. C.P extension piece	18	each	59.30	1067.40
	ix 125mm dia CP grating	10	each	83.50	835.00
	x 15mm dia. C.P flange	12	each	40.30	483.60
6	Supplying all materials ,labour ,T&P and fitting and fixing CP shower with 15mm or 20mm inlet including polishing etc.all complete as per specification and direction of Engineer-in-charge				
a)	15mm dia CP revolving shower(Jaquar make )	8	each	890.40	7123.20
7	Supplying all materials , labour, T&P and fixing rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701/1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc. including hoisting upto a height of 5 metres above ground				

	level and placing the tank to the required position and providing 5.40 mtr. lengthx0.25 mtr width KB brickwork in cement mortar (1:6) of 0.46m height in staging and 0.13mtr thick circular protection wall of 0.46mtr height to support the tank, 12mm thick cement plaster in cement mortar (1:6) over brick work, RCC slab of size 1.60mX1.60m and 0.10m thick ,RCC beam of 0.25mx0.30m and 2.60m average length in cement concrete (1:2:4) using 12mm size crusher broken hard black granite chips including centering and shuttering,watering,curing ,cost of all materials,conveyance of all materials to worksite , payment of royalty, all taxes etc.all complete as per approved drawing , P.H. specification and direction of Engineer-in-charge				
	<u>In the roof of second floor</u>				
a)	2000 ltrs capacity rotational moulded polyethylene cylindrical vertical water storage tank	2	each	38437.50	76875.00
8	Supplying all materials,labour,T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No.13592/1992 to walls with nails,bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification,testing,earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of Engineer-in-charge				
i	110mm dia. U-PVC SWR pipes(Ori-plast make Type-B)	26.00	mtr	390.20	10145.20
ii	110mm dia. U-PVC "P" trap	10	each	497.30	4973.00
iii	110mm dia. U-PVC door bend	10	each	407.40	4074.00
iv	110mm dia. U-PVC plain bend	6	each	232.00	1392.00
v	110mm dia. U-PVC offset without ear	8	each	407.40	3259.20
vi	110mm dia. U-PVC vent cowl	2	each	58.20	116.40
vii	110mm dia. U-PVC plain tee	9	each	322.70	2904.30
viii	110mm dia. U-PVC door tee	11	each	386.00	4246.00
ix	110mm dia. U-PVC plain shoe bend	2	each	232.00	464.00
x	110mm dia. U-PVC door cross tee	2	each	551.20	1102.40
xi	110mm dia. U-PVC Socket	4	each	160.10	640.40
9	Supplying all materials , labour, T&P and cutting holes through existing brick or laterite masonry wall for taking U-PVC / HCl pipes and fittings including making good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge				
a)	250mm to 375mm thick wall	10	each	182.70	1827.00
10	Supplying all materials , labour, T&P and cutting of RCC roof or cornice for taking HCl or U-PVC pipe and fittings including making good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge				
		12	each	159.70	1916.40
11	Supplying all materials , labour, T&P and cutting of RCC chajja for taking HCl or U-PVC pipe and fittings including making good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge				
		13	each	112.50	1462.50

12	Supplying all materials , labour, T&P and fixing Vitreous china water closet ,squatting pan ( Indian type W.C. pan / Orissa pattern squatting pan ) duly embedded in cement concrete 1:5:10 using hard granite metal 4cm nominal size including fixing a pair of vitreous china 250mmx130mmx30mm foot rest, fixing 100mm dia hci 'P' or 'S' trap for water closet squatting pan including jointing the trap with pan in cement mortar (1:1), cutting the floor and mending good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge				
a)	580mmx440mm size Orissa Pan ( White )	4	each	2198.90	8795.60
13	Supplying all materials,labour,T&P and fitting and fixing vitrous Chaina washed down water Closet (European type water closet - EWC) with integral "P" or "S" type trap to the floor including wodden plug and chromoum plated screw including jointing the trap with soil pipe in CM(1:1) fixing plastic seat cover for washed down water closet with crmium plated brass hinges and rubber buffers including polishing etc all complete as per specification and direction of Engineer-in-charge.				
a)	European Water Clost "S" trap(Parryware white)	4	each	2634.60	10538.40
14	Supplying all materials ,labour ,T&P and fixing 10 litres capacity PVC low level flushing cistern with a pair of PVC brackets complete with fittings such as pvc siphonic arrangements, 15mm dia nominal size pvc ball valve with polythene float ,pvc handles, unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP long flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet , and connecting the inlet pipe with supply main etc.all complete as per specification and direction of Engineer-in-charge				
a)	10 ltrs. capacity PVC low level cistern (Slimline- Deluxe-white-Parryware make)	8	each	1442.10	11536.80
15	Supplying all materials ,labour ,T&P and fixing wash kitchen sink with outlet at end and weir overflow including fitting and fixing a pair of cast iron or MS brackets painted white, fixing 50mm/40mm dia CP brass waste , fixing 50mm/40mm dia PVC waste pipe 910mm long with supply of wooden plugs, screws and cement etc. including cutting holes in walls and making good the damages etc.all complete as per specification and direction of Engineer-in-charge				
a)	600x450x250 mm stainless steel kitchen sink ( Jayna make)	4	each	4906.00	19624.00
16	Supplying all materials ,labour ,T&P and fixing Wash basin with hole for pillar taps with cast iron or MS brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc. fixing pedestral for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore, fixing 15mm dia PVC inlet connection pipe and making				

	fixing 10mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin , fixing 12mm dia CP brass waste etc.all complete as per specification and direction of Engineer-in-charge.				
a)	550mmx400mm size wash hand basin(Parryware white)	4	each	2393.20	9572.80
17	Supplying all materials ,labour ,T&P and fixing Mirror of superior glass mounted on 6mm thick A.C. sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc.all complete as per specification and direction of Engineer-in-charge				
a)	600mmx450mm size B.E mirror ( fixed type )	4	each	665.50	2662.00
18	Supplying all materials,labour,T&P and fixing standard sized Glass-shelf with C.P brass bracket and guard rail complete fixed to wooden pluges with screw etc.all complete as per specification and direction of Engineer-in-charge.				
a)	600mmx125mm size glass shelf with C.P ruard rail	4	each	599.40	2397.60
19	Supplying all materials ,labour ,T&P and fixing standard sized CP brass towel rail complete with CP brass brackets fixed to wooden plugs with chromium plated brass screws etc.all complete as per specification and direction of Engineer-in-charge				
a)	25mmx600mm long CP Towel rail	8	each	698.90	5591.20
b)	C P Towel Ring	4	each	466.10	1864.40
20	Supplying all materials ,labour ,T&P and fixing CP Soap Holder complete with CP brass brackets fixed to wooden plugs with chromium plated brass screws etc.all complete as per specification and direction of Engineer-in-charge				
a)	CP soap holder	4	each	177.90	711.60
21	Factory made single leaf rigid FRP(alternately called GRP) sandwich composite door shutter of 32mm thick laminated with two GRP skins with wood grain finish fabricated using UV stabilised Isophthalic Gelcoat and one layer of 450 gsm E glass chopped strand Mat (CSM) impregnated with orthophthalic polyester resin. The thickness of the skins shall not be less than 1.50mm Expanded polystyrone(EPS) structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material.Wooden reinforcements made of seasoned sal wood block of cross section not less than 28mmx32mm and also necessary sal wood reinforcements for fitting the metal fittings such as tower bolts,aldrops,handles etc shall be provided. A sturctural adhesive compatible with(EPS) foam shall be used for bending the core material, the sal wood rainforcements and the skins.The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centres standards and specifications and the door shutters tested in conformation to IS:4020-1998. The finish of door shutter will be plain colour using white/Ivory/Beige/Light grey/Mahogany /Teak wood or any other colour using high quality pigments.Three heavy whight mild steel butt hinges typep-I(ISI marked)size 100m are to be fitted on one side of shutter and complete in all respect as per specification and direction of the Engineer-in-charge.				

		12.90	sqm	3200.00	41280.00
<b>B) External PH. Works</b>					
22	Supplying all materials ,labour ,T&P and constructing gully trap chamber of inside size 250mmx250mm with 8cm thick RCC precast cover slab in cement concrete (1:2:4) mix using 12mm size crusher broken HG chips, foundation concrete (1:4:8) using 40mm size crusher broken HG metal on bed and around trap, KB brick work in cement mortar (1:6) in foundation and plinth and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCI gully trap, 150mmX150mm size CI grating etc.all complete as per drawing, specification and direction of Engineer-in-charge.				
a)	In side size 250mmx250mm	1	each	1390.40	1390.40
23	Supplying all materials ,labour ,T&P and constructing Inspection Chamber of inside size 760mmx760mmx460mm with cement concrete (1:3:6) using 40mm size crusher broken hard black granite metal on bed , KB brick work in cement mortar (1:6) in foundation and plinth, moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size crusher broken hard black granite chips, 12mm thick cement plaster (1:3) with cement punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab (1:2:4) using 12mm size crusher broken hard black granite chips with R.C.C man hole cover, earth work in excavation in all kinds of soil and refilling the cavity around the chamber including watering,curing, cost of all materials, conveyance of all materials to worksite, payment of royalty,all taxes etc.all complete as per approved drawing, P.H specification and direction of Engineer-in-charge				
a)	Inside size : 760mmx760mmx460mm	1	each	8333.10	8333.10
24	Supplying all materials ,labour ,T&P and constructing Man Hole Chamber of inside size 910mmx910mmx910mm with cement concrete (1:3:6) using 40mm size crusher broken hard black granite metal on bed , KB brick work in cement mortar (1:6) in foundation and plinth, moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size crusher broken hard black granite chips, 12mm thick cement plaster (1:3) with cement punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab (1:2:4) using 12mm size crusher broken black hard granite chips with R.C.C man hole cover, earth work 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 drawing, P.H specification and direction of Engineer-in-charge				
a)	Inside size : 910mmx910mmx910mm	1	each	16271.40	16271.40
25	Supplying all materials, labour, T&P & constructing Soak Way Pit of the following size with dry brick walling from bottom upto invert of inlet pipe and KB brick work in cement mortar (1:6) for the remaining height at top cement				

	mortar (1:3) for the remaining height at top, cement concrete (1:4:8) using 40mm size crusher broken hard black granite metal on bed, 12mm thick cement plaster in cement mortar (1:4) inside and outside over masonry brick work, gravel backing in the rear of well steining, RCC cover slab in cement concrete (1:2:4) using 12mm size crusher broken hard black granite chips fitted with iron lifting handles including earth work in open well excavation in all kinds of soil and refilling of cavity around the pit and painting the iron works, watering, curing, cost of all materials, conveyance of all materials to worksite, payment of royalty, all taxes etc. all complete as per approved drawing, PH specification and direction of the Engineer-in-charge.				
a)	1.40m dia x 2.00m deep inside size Soakway Pit	1	each	18430.50	18430.50
	<b>Construction of 2 nos 20 users Septic Tank</b>				
26	Supplying all labour, T&P and earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing & breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of Engineer-in-charge				
a)	Within initial lead of 50m and initial lift of 1.5m	26.25	cum	219.77	5768.96
27	Supplying all labour, T&P and earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing & breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of Engineer-in-charge				
a)	Extra lift of 1.50m or part thereof over the initial lift of 1.50m	18.38	cum	219.77	4039.37
28	Supplying all materials, labour, T&P and filling in foundation and plinth with sand well watered and rammed including cost, conveyance of all materials to work site, payment of royalty, taxes etc. all complete as per direction of the Engineer-in-charge				
		5.25	cum	810.81	4256.75
29	Supplying all materials, labour, T&P and providing cement concrete (1:3:6) with 4cm size crusher broken hard granite metal including watering, curing, cost of all materials, conveyance of all materials to work site with payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge				
	<u>In ground floor</u>	2.63	cum	4776.20	12561.41
30	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12mm size crusher broken hard black granite chips including watering, curing, cost of all materials, conveyance of all materials to work site with payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge				
	<u>In ground floor</u>	1.75	cum	6299.38	11023.92

31	Supplying all materials,labour,T&P and providing brick work with KB bricks having curshing strength not less than 75 kg/sqcm with dimensional tolerance+ 8% in cement mortar(1:4) including watering,curing, cost of all materials,conveyance of all materials to worksite,payment of royalty,all taxes etc.all complete as per PWD specification and direction of the Engineer in charge.				
	<u>In Foundation</u>				
		9.57	cum	4591.82	43943.72
32	Supplying all materials,labour,T&P and providing 16mm thick cement plaster(1:4) on brick work including watering,curing, cost of all materials, conveyance of all materials to worksite,payment of royalty,all taxes etc.all complete as per PWD specification and direction of the Engineer-in-charge.				
	<u>Inside</u>				
		38.25	sqm	213.05	8149.16
33	Supplying all materials,labour,T&P and providing 12mm thick cement plaster(1:4) on brick work including watering,curing, cost of all materials, conveyance of all materials to worksite,payment of royalty,all taxes etc.all complete as per PWD specification and direction of the Engineer-in-charge.				
	<u>Outside</u>				
		54.34	sqm	149.86	8143.39
34	Supplying all materials, labour, T&P and providing cement punning including watering, curing, cost of all materials, conveyance of all materials to worksite, payment of royalty,all taxes etc. all complete as per specification and direction of the Engineer-in-charge				
		39.38	sqm	32.90	1295.60
35	Supplying all materials, labour, T&P and providing rigid & smooth centering and shuttering for RCC works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per specification and direction of the Engineer-in-charge				
	<u>In ground floor</u>				
		39.38	sqm	432.00	17012.16
36	Supplying all materials, labour, T&P and providing cement concrete (1:1.5:3) with 12mm size crusher broken hard black granite chips for RCC works including hoisting, laying, watering, curing, cost of all materials, conveyance of all materials to worksite, payment of royalty,all taxes etc. all complete as per PWD specification and direction of the Engineer in charge.				
	<u>In ground floor</u>				
		3.74	cum	6982.25	26113.62

37	Supplying all materials, labour, T&P and providing steel reinforcement of Fe-415 /Fe-500 grade for RCC work including cutting,bending,binding and tying the grills and placing in position including cost of binding wire 18 to 20 gauge,cost of steel, conveyance of all materials to worksite, payment of royalty,all taxes etc all complete as per PWD specification and direction of the Engineer-in-charge.				
		3.74	Qntl	9132.80	34156.67
<b>Construction of 1no Production Tube well by Odex, Rotary.</b>					
38	Supplying all materials ,labour ,T&P and drilling a perfectly vertical bore hole of specified depth below ground level through consolidated and unconsolidated rock with down the hole hummer drilling rigs or combination drilling rigs as required to suit the site condition.all complete as per specification and direction of Engineer-in-charge.including use of own rigs with its accessories, tools and plants and consumables etc. for lowering of 200mm/150mm dia GI/PVC/MS casing pipes for housing fitted with socket and with or without well screen as per the neccessity for soft,medium,hard and boulder formation(GI/PVC/MS) 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 200mm dia bore				
i)	00mtr to 30th mtr	15.00	mtr	4598.53	68977.95
ii)	30mtr to 60th mtr	20.00	mtr	5598.43	111968.60
b)	Drilling 150mm dia bore				
i)	60mtr to 210th mtr	69.00	mtr	914.05	63069.45
39	Supplying all materials ,labour ,T&P and lowering the following size of GI/PVC pipe with or without slotted pipes as per the neccessity from GI up to 30.00mtr depth and fitted and fixed up perfectly vertical position including cutting and threading pipe and slotted pipes and fixing and supplying of all jointing materials T&P etc.complete and keeping the top of the casing pipe threading including plugging tube wells to prevent entry of forein materials from above the ground etc.				
a)	Lowering of 200mm dia M.S. ERW Casing pipe				
i)	00mtr to 60th mtr	34.00	mtr	116.15	3949.10
40	Supplying all materials ,labour ,T&P and cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipments and labours as per direction of Engineer in charge.				
a)	By DTH Rotary	1.00	each	4731.85	4731.85
41	Supplying all materials ,labour ,T&P and providing sanitary sealing worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipments and labours as per direction of Engineer in charge.				

a)	Cost of cement for sanitary sealing	1.00	each	1611.96	1611.96
42	Supplying all materials , labour, T&P and fixing of Submersible pump with squirrel cage induction type submersible type submersible electric motor to run on 3phase /1phase line voltage ranging from 320volt to 450volt conforming to IS:8034/89 with following specification with suitable control panel, jointing with GI/PVC/HDPE pipes, electrification, testing, commissioning, trial running, cost of all materials, conveyance of all materials to worksite , payment of royalty, all taxes etc. all complete as per , P.H. specification and direction of Engineer-in-charge				
a)	1HP. Single phase/three phase 3 stage head range of 30 to 54mtr with discharge capacity 145 to 110 L.M.P. with outlet dia 32mm	1.00	each	16625.60	16625.60
b)	DOL control panel	1.00	each	3805.50	3805.50
c)	32mm dia steel short piece	1.00	each	152.30	152.30
d)	Well cap	1.00	each	152.30	152.30
e)	50mm size CI brackets	1.00	each	91.30	91.30
f)	2.5sq mm flat cable	18.00	mtr	128.10	2305.80
g)	20mm dia rigid UPVC pipe	20.00	mtr	7.00	140.00
h)	Steel rope with cover	18.00	mtr	26.70	480.60
i)	Labour charges for lowering including transportation	1.00	each	2040.20	2040.20
43	Supplying all materials , labour, T&P and providing and fixing to wall or ceiling and floor HDPE pipes conforming to IS:4984/2000 and G.I pipe fittings of the following nominal bore with clamps including making good the wall, ceiling and floor ,testing all complete as per P.H. specification and direction of Engineer-in-charge				
a)	32mm dia HDPE Pipe	15.00	mtr	99.80	1497.00
				<b>Total PH</b>	<b>847457.94</b>
<b>EI WORK</b>					
1	Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 mm dia non-metallic PVC flexible conduit with 5 Amp, 250 V Modular type switch ISI marked and ceiling rose ISI marked mounted on MS box having front bakelite cover of suitable size , MS box with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accessories and connection as per direction of Engineer in Charge. ( Make of wire Finolex / L&T / Anchor / Havells / Polycab) Colour code of wire must be maintained				
	Group-A -L.P- F.P- C.B.P-	50	562.00	Point	28100.00
	Group-B L.P- F.P- C.B.P-	38	798.00	Point	30324.00
	Group-C L.P- F.P- C.B.P-	36	1095.00	Point	39420.00
2	Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia non-metallic PVC flexible conduit with piano type switch , phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required. ( Make of wire Finolex / L&T / Anchor / Havells / V Guard )	12	709.00	Point	8508.00

3	Supply and fixing of <b>5 Amp plug with switch</b> on existing board (Piano type/cover including connection etc. as required)	20	90.00	Set	1800.00
4	S/F of 3 pin 15 Amp plug point on M.S. Board Modular type (Make-Cona/Anchor)	28	626.00	Each	17528.00
5	Circuit Submain wiring in PVC Conduit with Inverter wiring				
	2 X 1.5 sq.mm +1 X 1.5 sq.mm in 20 mm dia	315	131.00	Mtr.	41265.00
	2 X 2.5 sq.mm +1 X 1.5 sq.mm -do-	510	145.00	Mtr.	73950.00
	2 X 4 sq.mm +1 X 1.5 sq.mm -do-	210	163.00	Mtr.	34230.00
	2 X 6 sq.mm +1 X 2.5 sq.mm -do-	60	194.00	Mtr.	11640.00
6	S/F of <b>Bakelite angle holder/batten holder</b> of ISI marked including connection etc as required .	8	60.00	Each	480.00
7	S/F of 10 watt LED bulb (Havells/Phillips/CG)	8	156.00	Each	1248.00
8	S/F of A.C. Ceiling fan of size 48" without regulator . (Make-Usha-Platinum or galaxy/Havells-Samrat/Crompton-Pawan deco)	16	2441.00	Each	39056.00
9	Supply and fixing of <b>Electronic Step Type</b> fan regulator (Make-Cona/ Anchor/ Usha/Bajaj)	16	233.00	Each	3728.00
10	Installation, Testing and commissioning of ceiling fan including wiring the down rod of standard length(up to 30 cm) with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor etc. as required.	16	127.00	Each	2032.00
11	Supply of 12" Exhaust fan heavy duty (Make-Usha /Almonard)	12	2718.00	Each	32616.00
12	Installation, Testing and commissioning if exhaust fan up to 450mm sweep in the existing opening including making the hole to suit the size of the above fan, making good the damage complete, connection, etc as required.	12	640.00	Each	7680.00
13	S/F of Superior type ding dong call bel	4	127.00	Each	508.00
14	S/F of 20 watt LED tube light fitting.(Havells/Phillips/CG)	80	783.00	Each	62640.00
15	S/F of 48 watt LED street light (Havells/Phillips/CG)	5	6321.00	Each	31605.00
16	S/F of G.I. Bend pipe for street light	5	480.00	Each	2400.00
17	Supply and fixing of 12way double door SPN DB with sheet steel enclosure,distribution board,on surface/recess,complete with tinned copper bus bar,neutral bus bar,earth bar,din bar,detachable gland plate,interconnection,phosphate and powder painted including earthing etc.as required.	4	1906.00	Each	7624.00
18	Supply and fixing of 6Amp to 16Amp single pole MCB(Make Havells/L&T/HPL)	32	132.00	Each	4224.00
19	S/F of 32 Amp DP MCB (Havells/HPL/L&T)	8	681.00	Each	5448.00
20	S/F of 63 Amp DP MCB (L&T/Havells)	4	980.00	Each	3920.00
21	S/F of 63 Amp ICDP main switch (Havells/L&T/Anchor)	4	3453.00	Each	13812.00
22	S/F of Modular Starter for A.C Machine (Make - Havells/Crabtree)	8	480.00	Each	3840.00
23	S/F of computer board consisting 3 nos 5amp switch and socket (Make- Havells/Anchor)	4	879.00	Each	3516.00
24	S/F of 6 sqmm.2 core Aluminium unarmoured cable(Havells/Polycab)	360	108.00	Mtr.	38880.00
25	Laying and fixing of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of size 6 sq.mm on surface as required.	340	81.00	Mtr.	27540.00

26	Supply and fixing of Earthing with G.I earth pipe 3mtr. Long 40mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	4	2503.00	Each	10012.00
27	Supply of Extra running earth with 8 SWG ( 4mm ) dia coper wire	49	65.00	Mtr.	3185.00
			<b>Total EI</b>		<b>592759</b>
			<b>Total (Civil+EI+PH)</b>		<b>7626225.77</b>
			<b>say</b>		<b>7626226.00</b>

Approved for 25 (twenty five ) Civil items only,43(Fourty Three) PH items only,27 (Twenty Seven) EI items only

Rupees Seventy Six Lakh Twenty Six Thousand Two Hundred Twenty Six only

*B. K. Singh*  
18/01/23  
Assistant Engineer  
NHM Keonjhar

*S. K. Singh*  
18/01/23  
Additional Executive  
Officer (Technical)  
Zilla Parishad, Keonjhar

*P. Singh*  
18.1.23  
Block Development  
Officer, Harichandanpur

**TO BE FILLED BY THE TENDERER**

1) My/ Our quoted rate is (both in figure and words)

	in Figure	%	In words
Equal to Estimate Cost		%	
Excess in Percentage		%	
Less in Percentage		%	

**Notes:-**

- 1) The Tenderer should quote the percentage up to one decimal point only.
- 2) The Tenderer should go through the special conditions in the DTCN for percentage rate contract before tendering .
- 3) The Tenderers should quoted their percentage only inside the space provided for the perpose .
- 4) The percentage quoted at any other place will not be taken into consideration.
- 5) If any discrepancy is found in the percentage quoted in words and figures then the percentage quoted by the contractor in words shall be taken as correct .

Additional Executive Officer (Technical)  
Zilla Parishad, Keonjhar

Block Development Officer  
Harichandanpur

Signature of the Contractor