

Bill of Quantity (BOQ)

Construction of Subcentre (HWC) building at Tangarpali of Tangarpali block of Sundargarh district under NHM PIP for the year 2020-21

Sl. No	Item	Quantity	Unit	Rate	Amount
1	Dismantling brick or stone masonry in cement mortar above 3.00m height including all costs complete & stacking the useful materials for reuse and removing the debris 50 mtr lead as per the direction of Engineer-in-charge.	17.77	Cum	1074.50	19093.87
2	Earth work in excavation of foundation in hard soil or gravelly soil including dressing and leveling the bed. initial leads and lifts as per the direction of Engineer-in-charge.	71.47	Cum	184.60	13193.36
3	Supplying & filling foundation and plinth with sand well watered and rammed including cost, cost of all labour, carriage, royalty, taxes, T&P etc complete as per the direction of Engineer-in-charge.	79.93	Cum	310.50	24818.27
4	Cement Concrete (1:3:6) using 40mm size hard granite C.B. metal approved quality from approved quarry including hoisting laying using concrete mixture and vibrators including cost, carriage, royalty, cost of all labour T&P etc complete as per the direction of Engineer-in-charge.	17.88	Cum	4657.30	83272.52
5	C.C. (1:2:4) with 12mm and down grade C.B. chips approved quality from approved quarry including hoisting, laying hire charges of concrete mixture, vibrator, watering, curing and including cost, carriage, royalty, cost of all labour T.&P. etc complete as per the direction of Engineer-in-charge.	4.07	Cum	5898.00	24004.86
6	R.C.C. M-20 grade with 20mm and down grade C.B. chips including hoisting, laying hire charges of concrete mixture, vibrator, watering, curing and cost of all materials and labour, T&P centering shuttering etc complete but cost of reinforcement complete as per the direction of Engineer-in-charge.				
6.1	Column base and footing	8.92	Cum	4945.60	44114.75
6.2	Plinth band (Grade beam)	4.35	Cum	5294.90	23032.82
6.3	Lintel	2.22	Cum	8412.10	18674.86
6.4	Chajja	8.18	Sqm	772.90	6322.32
6.5	Column in Superstructure, Beam (GF)	7.61	Cum	10540.70	80214.73
6.6	Column in Superstructure, Beam (FF)	1.44	Cum	11771.50	16950.96
6.7	Roof slab (GF)	10.21	Cum	8987.90	91766.46
6.8	Roof slab (FF)	1.55	Cum	9907.90	15357.25
6.9	Staircase	1.89	Cum	10078.90	19049.12

7	Providing M.S. 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 steels as per the direction of Engineer-in-charge.				
7.1	Ground Floor	37.63	Qntl	8058.60	303245.12
7.2	First Floor	3.45	Qntl	8081.80	27882.21
8	Brick work with Fly Ash bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ± 2 percent in cement mortar (1:6) in Foundation&Plinth including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-in-charge.	23.29	Cum	4054.20	94422.32
9	Brick work with Fly Ash bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ± 2 percent in cement mortar (1:6) in Superstructure including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-in-charge.				
9.1	Ground Floor	33.99	Cum	4087.20	138923.93
9.2	First Floor	10.78	Cum	4387.60	47298.33
10	Supplying M.S Door made out with ms flat , angle of approved design & specification including cost of all materials cost of manufacture, cost of one coat of primer, all taxes T&P etc complete as per the direction of Engineer-in-charge.	977.00	Kgs	72.00	70344.00
11	Supplying M.S Window made out with ms flat , angle of approved design & specification including cost of all materials cost of manufacture, cost of one coat of primer, all taxes T&P etc complete as per the direction of Engineer-in-charge.	427.50	Kgs	76.00	32490.00
12	Labour charge for fitting ,fixing of M.S door>window, grill , Gate including all cost etc complete as per the direction of Engineer-in-charge.	33.27	Sqm	68.10	2265.69
13	12mm thick C.P. in C.M.(1:6) over brick masonry to the smooth surface including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-in-charge.				
13.1	Ground Floor	468.86	Sqm	131.70	61748.86
13.2	First Floor	111.90	Sqm	135.00	15106.50
14	Supplying, fitting and fixing Vetrified tile in floors treads or steps and landing on 20mm thick cement mortar (1:4) 1cement:4 course sand and filling joints with white cement of approved quality including cost of all materials, labour T&P etc. required for the work all complete as per direction of Engineer-in-charge.	77.40	Sqm	931.20	72074.88

15	Supplying, fitting and fixing Glazed tile in floors treads or steps and landing on 20mm thick cement mortar (1:4) 1cement:4 course sand and filling joints with white cement of approved quality including cost of all materials, labour T&P etc. required for the work all complete as per direction of Engineer-in-charge.	4.72	Sqm	666.00	3143.52
16	Supplying, fitting and fixing Vetrified tile of size 600mm x 600mm Coloured /Printed series (Homogeneous) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including all costs complete as per the direction of Engineer-in-charge.	17.08	Sqm	1030.60	17602.65
17	Fixing Glazed tiles (20cmx30cm / 20cm x 20cm special plain /printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including all costs complete as per the direction of Engineer-in-charge.	48.15	Sqm	724.20	34870.23
18	Providing fitting, fixing of Aluminium door with anodized Al. door section of 9202 as vertical member, 9201 as top, 9200 as bottom and middle member with frame section as 9221with tapered clip No. 4660 and the frame to be completed by means of jointing angle No. 1855 including all cost of labour, T&P, hire charges of drilling machine, labour charges etc. complete excluding cost of laminated board.	40.25	Kgs	460.90	18551.23
19	Providing and fitting of (12 mm thick) Pre-laminated Board Standard Type (ISI) in Aluminium frame of doors including cost of all materials, labour T&P etc complete as per the direction of Engineer-in-charge.	3.02	Sqm	744.80	2249.30
20	Painting 2 coats with any approved paint in new iron works including sand papering, polishing surfaces, cost of paints, cost of all labour, T&P, etc complete in all floors as per direction of Engg-in charge.	63.71	Sqm	133.00	8473.43
21	2.5cm thick grading concrete (1:2:2) on roof slab with 6mm size hard crusher broken granite chips on new work including watering curing cost of all materials, water-proofing compounds, T.& P. required for the works etc complete as per the direction of Engineer-in-charge.				
21.1	Ground Floor	77.87	Sqm	293.90	22885.99
21.2	First Floor	15.41	Sqm	321.20	4949.69
22	Finishing plastered surface of wall surface with Acrylic wall putty (Water based) & making smooth to recive painting including cost of scaffolding etc. with cost of all materials, labour T&P etc complete as per the direction of Engineer-in-charge.				
22.1	Ground Floor	68.12	Sqm	90.60	6171.67
22.2	First Floor	9.76	Sqm	91.90	896.94

23	Priming 1 coat with wall primer (water bond) of any approved shade including all costs complete as per the direction of Engineer-in-charge.				
23.1	Ground Floor	321.03	Sqm	57.90	18587.64
23.2	First Floor	35.81	Sqm	59.30	2123.54
24	Distempering 2 coats to walls with distemper of approved shade on new work to give an even shade including cost of distemper and labour, T & P. etc complete. as per direction of Engineer-in-charge.				
24.1	Ground Floor	321.03	Sqm	63.00	20224.89
24.2	First Floor	35.81	Sqm	64.50	2309.75
25	Finishing to the exposed surfaces of wall with weather coat of any approved shade on new work 2 coats to give an even shade including cost of weather coat all cost of all labours and T&P etc complete as per the direction of Engineer-in-charge.				
25.1	Ground Floor	154.73	Sqm	128.60	19898.28
25.2	First Floor	62.29	Sqm	133.50	8315.72
26	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 as per the direction of Engineer-in-charge.	102.48	Kgs	333.50	34177.08
	Borewell				
27	Labour for drilling of perfectly vertical bore hole of specified dia for a specified depth below ground level through consolidated and un-consolidated rock with down the hole hammer drilling rigs of combination drilling rigs required to suit the site conditions as per the direction of Engineer-in-charge including supply of rigs with its accessories, T&P & consumable etc. for lowering 125mm dia PVC pipes for housing fitted with socket and with or without well screens as per the necessity for the soft medium and hard formation PVC pipe casing pipes if required to prevent collapse of the over burden is to be provided by the contractor including lowering and with drawing after completion of the Tube Well as per the direction of Engineer in charge.				
27.1	Drilling of 150mm dia 0.00 mtr. 120.00 mtr.	100.00	Mtr	611.70	61170.00

28	Lowering the following size PVC pipe with or without slotted pipes as per the necessity from 0 mtr. up to 30 mtr. depth, fitted & fixed up in perfectly vertical position, including cutting & threading pipe & slotted pipe & supplying & fixing all jointing materials T&P etc. complete & keeping the top of the casing pipe threaded including plugging Tube Wells to prevent entry of foreign matters from above as per the direction of Engineer-in-charge.				
28.1	Lowering of 150 mm dia PVC Pipe	25.00	Mtr	92.20	2305.00
28.2	Cost of 150mm dia PVC Pipe (Sch-80)	25.00	Mtr	981.20	24530.00
29	Cleaning and developing the tubewell with their own compressor continuously worked till clear and adeequate discharge is obtained from the tubewell including supply and use of all necessary equipments and labours as per the direction of Engineer-in-charge.	1.00	Each	3297.00	3297.00
30	Supplying all materials, labour, T&P and providing, fitting and fixing submerssible pump with squirrel cage induction type sumerssible type submerssible electric motor to run on 3phase/ 1 phase line voltage ranging from 320 volt to 450 volt conforming to IS: 8034/89 with following specifications with suitable control panel, jointing with GI/PVC/HDPE pipes, electrification, testing, commissioning, trial running, conveyance of all materials to worksite, payment of taxes etc. all complete as per specification and direction of the Engineer-in-charge (Texmo/Crompton Greaves / Kirloskar make)				
30.1	1H.P Single Phase vertical water cool submerssible pump set with discharge 1800/2200 18 stage head range of 70/90 mtr with discharge capacity with outlet dia 25mm	1.00	Each	15540.00	15540.00
30.2	DOL Control Panel	1.00	Each	3060.30	3060.30
30.3	Well Cap	1.00	Each	204.02	204.02
30.4	40mm dia steel short piece	2.00	Each	204.02	408.04
30.5	50mm size CI bracket	1.00	Pair	121.20	121.20
30.6	2.5mm sq.mm Flat Cable	120.00	Mtr	114.00	13680.00
30.7	25mm dia PVC Pipe	57.00	Mtr	186.00	10602.00
30.8	Labour Charges for lowering including transportation	1.00	Each	3500.00	3500.00
30.9	Steel rope with cover	100.00	Mtr	35.70	3570.00
	P.H work				
31	Supplying all labour,T&P for earth work in excavation in all kinds of soil within initial lead of 50m and 1.50m initial lift including rough dressing and breaking clods to minimum 5cm to7 cm and laying in layers not exceeding 0.30cm in depth as per specification complete as per the direction of Engineer-in charge.	8.55	Cum	356.50	3048.08

32	Supplying all materials,labour,T&P for 12mm thick cement plaster (1:4) over brick work including cement punning including cost all taxes,royalty of all materials, curing and conveyance of materials to the work site etc.all complete as per the direction of Engineer-in-charge.	28.20	Sqm	193.20	5448.24
33	Construction of 1.20 m dia and 2.00 m deep soak pit as per the direction of Engineer-in-charge.	2.00	Nos	16221.20	32442.40
34	Construction of Inspection Chamber of Inside size 0.60 m x 0.60 m x 0.60 m deep with RCC Cover slab as per the direction of Engineer-in-charge.	2.00	Nos	6938.20	13876.40
35	Fixing water closet Porcelain pan (Indian type W.C pan) confirming to IS 2556:Part 3-2004 duly embedded in cement concrete 1:4:8 (using hbg metal 4 cm size) all complete as per PH specification as per the direction of Engineer-in-charge.				
35.1	580 x440mm size Orissa Pan (White)	2.00	Nos	2797.80	5595.60
36	Providing and Fixing PVC Low level flushing cistern with manually controlled device (hand lever) confirming to IS: 7231,with all fittings and fixtures etc, all complete as per specification as per the direction of Engineer-in-charge.				
36.1	10.00 ltrs capacity Low level flushing cistern-White	2.00	Nos	1697.80	3395.60
37	Fixing of Brass Screw -Down Bib Cocks (Tap) Polished bright confirming to IS:781-1995 of the following nominal sizes as per specification complete as per the direction of Engineer-in-charge.				
37.1	15 mm dia C.P. Brass Short Body Bib Cock	5.00	Nos	672.10	3360.50
37.2	15 mm dia two way Bib Cock	2.00	Nos	1853.60	3707.20
37.3	15 mm diameter long handle elbow operated bib cock	2.00	Nos	1482.50	2965.00
37.4	15 mm diameter Pillar cock	1.00	Nos	696.90	696.90
38	Fixing of Brass or C.P screw down stop cocks/ concealed stop cock/ angle stop cocks confirming to IS: 781-1995 of the following nominal sizes as per specification complete.				
38.1	15 mm dia Brass Screw- down Stop Cock	4.00	Nos	656.00	2624.00
38.2	125mm CP grating	6.00	Nos	72.90	437.40
39	Fixing Wash Basins with hole for Pillar Taps confirming to IS 2556:Part 4-2004 with Cast Iron or M.S brackets painted white including cutting holes in walls and making good the damages etc all complete as per specification.				
39.1	Vitreous China flat back Wash Hand Basin of size 550 mm x 400 mm	1.00	Nos	2897.30	2897.30
40	Supplying all materials, labour, T&P and fixing kitchen sink with hole for pillar taps with C.I/M.S brackets painted white including holes in walls and making good the damages etc all complete as per PH specification as per the direction of Engineer-in-charge.				
40.1	Stainless steel sink 510mm x 600mm x 225mm	1.00	Nos	4033.80	4033.80

41	Fixing Rational moulded Polythylene cylindrical vertical water storage tanks confirming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra socket ,jam nut, fixing ball valves etc including hoisting upto a height of 5 mtr above ground level and placing the tank to the required position etc all complete as per specification and direction of Engineer-in- Charge.				
41.1	1000 litres capacity PVC water storage tank	1.00	Nos	13981.50	13981.50
42	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) Pipes confirming to IS: 15778 having thermal stability for hot & cold water supply, including all CPVC plain & brass threader fittings, fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints etc as per direction of Engineer in Charge.				
42.1	25 mm nominal outer dia pipe	20.00	Mtrs	265.50	5310.00
43	Providing and fixing to wall or celing and floor Chlorinated Polyvinyl Chloride (CPVC) Pipes confirming to IS: 15778 of the following nominal bore with clamp including making good the damages to wall ,celling & floor etc complete as per specification as per direction of Engineer in Charge.				
43.1	15 mm nominal outer dia pipe	20.00	Mtrs	171.40	3428.00
43.2	25 mm nominal outer dia pipe	30.00	Mtrs	302.00	9060.00
44	Fixing of UPVC Ball Valve (Horizontal plunger type) confirming to IS: 1703-1977 as per specification & direction of Engineer-in-charge				
44.1	25 mm dia	4.00	Nos	624.50	2498.00
45	Providing and laying in trenches PVC pipe (4Kg/cm2) as sewer line and alinging to requisite gradients inside the trench, jointing with solvent cement with 0.08m sand filling in bed , 0.10m C.C (1:4:8) using 40 mm size hbg metal in bed & for intermidiate pillar including lowering the pipes to the bed of trench, Earthwork in excavation in all kind of soil ,Filling the trenches with excavated earth with watering and ramming and removal of surplus earth, testing of sewer line etc. complete as per the direction of Engineer.in charge.				
45.1	75 mm PVC Pipe	10.00	Mtrs	843.90	8439.00
45.2	110 mm PVC Pipe	10.00	Mtrs	885.10	8851.00
46	Supplying all materials, labour, T&P and fitting and fixing U-PVC, SWR soil waste ventilating pipes and fitting of the following outside diameter conforming to 13592/1992 to walls with nails bobbins and wooden plugs or laying in trenches including with supply of approved rubber lubricant by non-heat application method as per manufactures specification testing earth work in excavation in all kinds of soil and refilling of trenches all complete as per specification and direction of Engineer.in charge.				

46.1	110 mm U-PVC Pipe	8.00	Mtrs	284.20	2273.60
46.2	110 mm U-PVC 'P' trap	2.00	Each	294.20	588.40
46.3	110 mm U-PVC door bend	2.00	Each	302.10	604.20
46.4	110 mm U-PVC Plain bend	10.00	Each	287.10	2871.00
46.5	110 mm U-PVC Cowl	2.00	Each	77.30	154.60
46.6	110 mm U-PVC Coupler	8.00	Each	130.30	1042.40
46.7	75 mm U-PVC door bend	4.00	Each	207.90	831.60
46.8	75 mm U-PVC Plain bend	8.00	Each	163.80	1310.40
46.9	75 mm U-PVC Coupler	8.00	Each	97.60	780.80
47	Fixing 15 mm dia PVC inlet connection pipe and making connection with pillar cocks and supply main for wash basin complete as per specification. & direction of Engineer-in-charge.				
47.1	15mm dia	6.00	Nos	195.40	1172.40
48	Fixing PVC Waste Pipe of the following diameter for sink or wash basin including brass check nut complete as per specification & direction of Engineer-in-charge.				
48.1	32mm dia	6.00	Nos	174.50	1047.00
49	Fixing chromium plated Brass waste of the following nominal diameter for wash basin and sink as per specification & direction of Engineer-in-charge.				
49.1	32mm dia	3.00	Nos	409.70	1229.10
50	Cutting holes through existing brick work including making good the same in cement mortar (1: 4) for taking G.I / P.V.C pipes and fittings all complete as per specification & direction of Engineer-in-charge.				
50.1	250 mm thick wall	18.00	Nos	49.60	892.80
50.2	375 mm thick wall	10.00	Nos	74.30	743.00
51	Cutting groves in pucca floor and walls for taking G.I/PVC pipes and making good the damages as per specification etc all complete as per the direction of Engineer-in-charge.	15.00	Mtrs	182.90	2743.50
	EI Work				
52	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 Amp, 250 V piano type switch ISI marked and ceiling rose ISI marked mounted on MS box having front bakelite mm dia non-metalic PVC conduit with 5 cover of suitable size, MS box with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
52.1	Group (A)	18.00	Nos	584.20	10515.60

52.2	Group (B)	15.00	Nos	690.00	10350.00
52.3	Group (C)	17.00	Nos	829.00	14093.00
53	Supplying and fixing of following piano type switch / socket on the existing switch box / cover including connections etc as required (5/6A) as per direction of Engineer in Charge.				
53.1	On existing board	16.00	Nos	212.00	3392.00
54	Supplying and fixing of following piano type switch / socket on the existing switch box / cover including connections etc as required (15/16A) as per direction of Engineer in Charge.	2.00	Nos	642.00	1284.00
54.1	Supplying and fixing batten holder / BK angle holder ISI marked including connection etc as required as per direction of Engineer in Charge.	20.00	Nos	43.00	860.00
55	Supply, Installation, Testing, and Commissioning of 32 Amp TPN Main switches of following capacity (IS 13940 Part 3/1993) on existing surface / wall mountnting and complete with HRC Fuse links, interconnections, earthing, etc. as required as per direction of Engineer in Charge.	1.00	Nos	2450.00	2450.00
56	Installation, Testing and Commissioning of resistance type ceiling fan regulator, in existing switch box including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor,earthing the regulator as required as required as per direction of Engineer in Charge.	4.00	Nos	71.60	286.40
57	Installation, Testing and Commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multiatrand copper conductor etc as required as per direction of Engineer in Charge.	4.00	Nos	80.00	320.00
58	Installation, testing and commissioning of exhaust fan up to 450 mm 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 as required as per direction of Engineer in Charge.	3.00	Nos	419.00	1257.00
59	Supply and fixing of single pole MCB 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 as per direction of Engineer in Charge.	2.00	Nos	1493.90	2987.80
60	Earthing with G.I earth pipe 3 meter long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangment and watering pipe etc with charcoal and salt as required as per direction of Engineer in Charge.	1.00	Nos	2755.70	2755.70

61	Recessed wiring to submain in 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked as per direction conforming to IS-694/1990 in 20mm dia non metallic heavy duty flexible conduit 1.6mm thick along with 1 x 1.5sq.mm FR PVC insulated single core multistrand copper conductor as earthwire as required of Engineer in Charge.	90.00	Mtrs	101.00	9090.00
62	Supply and drawing of following sizes FR PVC insulated single core multistrand copper conductor in existing surface / recessed STEEL/PVC conduit as required (2 x 2.5 sqmm) as per direction of Engineer in Charge.	120.00	Mtrs	115.00	13800.00
63	Supply and drawing of following sizes FR PVC insulated single core multistrand copper conductor in existing surface / recessed STEEL/PVC conduit as required (2 x 4.0 sqmm) as per direction of Engineer in Charge.	70.00	Mtrs	132.00	9240.00
64	Supply and Fixing of LED Bulb 12W	20.00	Nos	190.00	3800.00
65	Supply and Fixing of Ceiling Fan 1200mm blade	4.00	Nos	2080.00	8320.00
66	Supply and Fixing of Exhaust Fan 300mm	3.00	Nos	1908.00	5724.00
	Total 66 (Sixty Six) items	Total Estimated Cost	1,967,994.00		
			(Rupees Ninteen Lakh Sixty Seven Thousand Nine Hundred Ninty Four) Only		

My quoted rate is % (both figure & word) Excess over / Less than / Equal to above estimated cost.

Note

- 1 The Contractor should not write anything except quoting of percentage and incase of anything regarding tender.
- 2 Strick out which are not applicable.

Total :- 66 (Sixty Six) Items only

No. of correction :-

No.of overwriting :-

No. of Interpolation :-

Approved for 66 (Sixty Six) Items only

Full signature of the Contractor with date.

**Chief District Medical & Public Health Officer
Cum District Mission Director
Sundargarh**