

Bill Of Quantity (B.O.Q)

Name of the Work:-Repair & renovation of Andalijambahal PHC (N) HWC of Kuarmunda Block for the year 2022-23 under DMF Fund.

Sl. No.	Item	Quantity	Unit	Rate in Rs	Amount in Rs
1	Earth Work in Excavation of foundation in hard soil or gravelly soil including dressing and levelling the bed,initial leads and lifts as per direction of EIC.	11.40	Cum	199.60	2275.44
2	Supplying and Filling foundation and plinth with sand well watered and rammed including cost,cost of al labour,carriage,royalty,taxes,T&P etc. complete.	2.56	Cum	296.30	758.53
3	Construction of embankment with approved material obtained from borrow pits with all lead and lifts ,transporting to site by mechanical means with a lead of 5 Kms ,spreading,grading to required slope and compacting to meet requirement of table 300 - 2 and clause 305 of MoSRT & H (4th revision).	14.51	Cum	120.30	1745.56
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 and as directed by E.I.C.	2.27	Cum	4599.80	10441.55
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 and as directed by E.I.C.	3.53	Cum	5958.30	21032.80
6	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 E.I.C.	3.11	Cum	4188.40	13025.93
7	R.C.C. M-20 grade with 20mm and down grade C.B. chips of approved quality from approved quarry 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 excluding cost of reinforcement complete as per the direction of Engineer-in-charge.				
	Precast slab	5.59	Cum	4916.50	27483.24
8	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 steelas per the direction of Engineer-in-charge.				
	Ground Floor	5.59	Qntl	9195.20	51401.17

9	Brick work with Flyash bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ± 8 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 E.I.C.	1.70	Cum	4221.40	7176.38
10	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 E.I.C.	14.87	Sqm	141.40	2102.62
11	Hoisting joists and trusses and placing in position including cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of E.I.C.	11.26	Qntl	10127.40	114034.52
12	Supplying, fitting & fixing of PPGL sheet (Pre-painted Galvanized sheet) of 0.50 mm thick in roof with fitting & fixing of wind ties including cost, carriage & taxes of all materials cost of all labour for fixing and cost of fitting materials & drilling holes in wind ties etc. complete.	9.29	Sqm	753.10	6996.29
13	Supplying, fitting and fixing Industrial tile in floors treads or steps and landing of approved make conforming to IS 13755 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.	44.61	Sqm	853.20	38061.26
14	Supplying, fitting and fixing vitrified tile (Plain) in floors of size 600mm x 600mm of approved make conforming to IS : 13755 laid on 20 mm thick cement mortar (1:4) (1 cement :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 E.I.C. (For New work only)	27.88	Sqm	958.30	26717.41
15	Fixing Vetrified tiles (size 600mmx600mmColoured /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 direction of Engineer-in-charge.	6.01	Sqm	1065.90	6406.06
16	Fixing Chequered tiles in floors treads or steps and on 20mm thick bed of cement mortar 1:4 (1cement : 4 sand) jointed with neat cement slury mixed with pigment to match the shades of the tiles including cost, carriage, royalty & taxes of all materials, cost of all labours T&P etc complete.	65.06	Sqm	502.90	32718.68

17	Supplying, fitting, fixing of 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 direction of Engineer-in-charge.	10.07	Sqm	759.50	7648.17
18	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.	8.08	Sqm	693.10	5600.25
19	Supplying, fitting, fixing up window (sliding type) made up aluminum Section 9778as windows frame, section no. 4095, 4096 and 9777,3994 as shutter frame with 5mm thick black glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of materials all taxes labour, T&P etc. complete as per direction of Engineer-in-charge.	65.88	Kg	618.10	40717.47
20	Providing and fitting of zinc coated wire mesh for windows, door and ventilators including cost of all materials, labour T&P etc. complete. (Measurement to be taken as per actual)	12.75	Sqm	428.00	5457.00
21	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.	24.36	Kgs	468.80	11419.97
22	Providing, fitting and fixing up partition walling aluminium anodized section No. 9210 and 9207 as single groove and double groove respectively as horizontal and vertical member and section 4660as tapered clip and jointing angle No. 1855 etc. as per direction of Engineer-in-charge excluding cost of laminated board.	20.58	Kgs	479.10	9859.88
23	Providing and fitting of (12 mm thick) Pre-laminated Board Standard Type (ISI) in Aluminium frame of doors, windows & ventilatos etc. including cost of all materials, labour T&P etc complete as per the direction of Engineer-in-charge.	1.95	Sqm	744.80	1452.36
24	Providing and fitting of glass pane (6 mm thick Plain) for slinding windows and ventilators including cost of all materials, labour T&P etc complete as per the direction of Engineer in charge.	2.51	Sqm	652.40	1637.53

25	Providing and fixing of wall case/wall almirah made with BWR ply wood (ISI) with laminate both side including all type of fittings such as handle, lock magnet, chain, channel, screw, blot & nuts etc. jointing finishing to a flush bonded with adhesive etc. complete as per direction of the department.	4.00	Sqm	12661.40	50645.60
26	Supplying , fitting & Fixing of cement concrete coloured hexagonal paver inter locking blocks 80 mm thick and 250 mm inscribed circle diametre(0.382 Sqft area) machine mixed and compacted have crushing strength not less than M-15 including cost of all materials, labour T&P,taxes and transportation etc complete as per the direction of Engineer in charge.	9.29	Sqm	725.90	6743.61
27	Providing fitting and fixing of Informatory Sign Board using high efficiency full cube retro reflective sheeting on white colour bonded on to 4 mm aluminium composite panel(0.25+3.5+.25 pdvf coated) over which alphabets and number and reverse cut with computerised cutting plotter,the board shall be provided with frame madeout of stainless pipe shall be mounted on vertical posts made out of 80 mm N.R,Stainless pipe as have installed including necessary excavation for foundation,concreting,reveting etc.necessary for fixing of the board including cost,conveyance,taxes of all materials,all labour and T&P,required for the work as per direction of the Engineer -In -Charge.	40.00	Sft	1893.20	75728.00
28	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 aquare 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. (in all floor)	130.79	Kgs	335.10	43827.73
29	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.	227.50	Kgs	76.80	17472.00
30	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.	6.04	Sqm	68.10	411.33
31	Painting 2 coats with any approved paint in new iron works including sand papering, polising surfaces, cost of paints, cost of all labour, T&P, etc complete in all floors as per direction of Engg-in charge.	59.02	Sqm	140.30	8280.51
32	Clearing and grubbing road land including prooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of un-serviceable materials and stacking of serviceable material to be used or auctioned, up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.	46.47	Sqm	6.10	283.47

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.	37.17	Sqm	79.80	2966.17
34	Priming 1 coat with wall primer (water bond) of any approved shade including all costs complete as per the direction of Engineer-in charge.	37.17	Sqm	61.00	2267.37
35	Providing colour ,Painting of branding of HWC	170.20	Sft	63.50	10807.70
36	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 .	389.03	Sqm	74.10	28827.13
37	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 pipe fitting of the following nominal bore, tube fittings and clamps including making good the wall, ceiling and floor, testing all complete as per specification and direction of the Engineer in charge.				
A	Ground floor				
i	20mm dia C - PVC pipe	10.00	Mtrs.	243.00	2430.00
ii	25mm dia C - PVC pipe	15.00	Mtrs.	331.30	4969.50
38	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials including cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge.				
i	15mm dia CP angle stop cock (Con-CHR-053KN Jaquar make)	2.00	Each	861.30	1722.60
ii	15mm dia CP two in one bib cock (Con-CHR-041KN Jaquar make)	2.00	Each	1255.00	2510.00
iii	15mm dia CP Long Body Bib cock (Con-CHR-107KN Jaquar make)	2.00	Each	1451.9	2903.80
iv	15mm dia CP Bib cock(Jaquar-Medi series)FLR-CHR-5043N	2.00	Each	2288.50	4577.00
v	20mm dia CP consealed stop cock(Con-CHR-083KN Jaquar make)	2.00	Each	1132.00	2264.00
vi	15mm dia CP Health faucet (Con-ALD-MCH-573 Jaquar make)	2.00	Each	1648.70	3297.40
vii	25mm dia brass full way valve (Shakti make)	2.00	Each	927.30	1854.60
viii	125mm CP grating	5.00	Each	83.50	417.50
ix	15 mm diameter long handle elbow operated bib cock	5.00	Each	1482.50	7412.50
39	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. complete as per approved drawing , P.H. specification and direction of Engineer-in-charge				

i	200 liters capacity PVC water storage tank	3.00	Each	3561.08	10683.24
40	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 G.I. Pipes and fittings/ P.V.C. pipes and fittings including watering, curing, cost & conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per direction of Engineer-in-charge.				
i	Ground Floor	3.00	Each	46.20	138.60
41	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 , cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge.				
i	110mm U-PVC SWR Pipe (Ashirvad/Supreme Make)	6.00	Mtr.	456.90	2741.40
ii	75mm U-PVC SWR Pipe (Ashirvad/Supreme Make)	6.00	Mtr.	302.20	1813.20
iii	110mm U-PVC 'P' Trap (Ori Plast/Finolex/Supreme Make)	3.00	Each	497.30	1491.90
iv	110mm U-PVC door bend (Ori Plast/Finolex/Supreme Make)	3.00	Each	293.60	880.80
v	110mm U-PVC Plain bend (Ori Plast/Finolex/Supreme Make)	3.00	Each	232	696.00
vi	110mm U-PVC Cowl (Ori Plast/Finolex/Supreme Make)	3.00	Each	58.20	174.60
42	Supplying all materials, labour T&P and and fixing 12.50 liters/10 liters capacity low level flushing cistern with a pair of cast iron or M.S. brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle, 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 , cost & conveyance of all materials to worksite, payment of taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge				
i	10 ltr. Capacity pvc L.L. cistern with 32mm. Dia CP long flush bend (Slimline-white-Parryware make)	2.00	Each	1562.90	3125.80

43	Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet(European type W.C. pan)with integral 'p' or 's' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1) fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing , cost & conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge				
i	European water closet with 'p' trap plain (Hindware / Parryware / Neycer make)	2.00	Each	2589.80	5179.60
44	Supplying all materials, labour T&P and fixing wash basins with hole for pillar taps with cast iron or M.S.brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal 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 connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste, cost & conveyance of all materials to worksite, payment of taxes etc. all complete as perP.H specification and direction of the Engineer-in-charge.				
i	550mmx400mm W.H.basin (Hindware / Parryware / Neycer make)with 15mm dia C.P.pillar cock (Plaza make)	2.00	Each	2249.40	4498.80
45	Supplying all materials, labour, T&P for fitting & fixing plain edge kitchen/wall sink of all standard sizes with a pair of bracket, C.P. waste, trap & P.V.C. waste pipe & painting brackets including supply of cement concrete & mortar etc. all complete. 600 x 450 x 200 mm	2.00	Each	4906.00	9812.00
46	Supplying all materials, labour, T&P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge				
i	25mm x 600mm long CP towel rail	2.00	Each	698.90	1397.80
ii	CP towel Ring	2.00	Each	466.10	932.20
47	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 CP screws and washers complete as per specification and direction of Engineer in charge.				
i	600mmx450mm size B.E mirror (swivelled type)	2.00	Each	637.60	1275.20

48	Supplying all materials, labour, T&P and fixing CP soap holder complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge				
i	CP soap holder	3.00	Each	177.90	533.70
49	Supplying all materials, labour, T&P and cutting holes through existing brick or laterite masonry wall for taking U-PVC pipes and fittings including making good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge	3.00	Each	180.50	541.50
50	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized P.V.C. pipe conforming to IS 4985/2000 of the following out side dia for class- 3 (0.60mpa) including jointing with supply of approved solvent cement by non-heat application method/as per manufacture's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per P.H. specification and direction of the Engineer in charge				
i	110mm dia P.V.C. pipe	3.00	Mtr.	968.90	2906.70
51	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 the Engineer in charge.				
i	110mm U-PVC SWR Pipe (Ashirvad/Supreme Make)	12.00	Mtr.	456.90	5482.80
ii	110mm U-PVC Plain bend (Ori Plast/Finolex/Supreme Make)	4.00	Each	232.00	928.00
iii	110mm U-PVC Socket (Ori Plast/Finolex/Supreme Make)	3.00	Each	160.10	480.30
iv	125mm CP grating	1.00	Each	83.50	83.50
52	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 4cm size hard granite metal including fixing a pair of vitreous china 250mm x 130mm x30mm footrest, fixing 100mm dia HCI 'p' or 's' trap (with/without 50mm dia horn) for water colset squatting pan including jointing the trap with pan in cement mortar (1:1) cutting the floor and mending good the damages , cost & conveyance of all materials to worksite, payment of royalty , taxes etc. all complete as per P.H specification and direction of the Engineer-in-charge.				

i	580mm size Orissa pan (Hindware/Parryware/Neycer make)	2.00	Each	2439.80	4879.60
53	Supplying all materials, labour, T&P for fitting & fixing plain edge kitchen/wall sink of all standard sizes with a pair of bracket, C.P. waste, trap & P.V.C. waste pipe & painting brackets including supply of cement concrete & mortar etc. all complete. 600 x 450 x 200 mm	2.00	Each	4906.00	9812.00
54	Fitting & fixing of Aquaguard Cooler cum Purifier Provision				
i	Aquaguard Pure chill 80 PSS UV	1.00	Each	48500.00	48500.00
55	Supplying all materials labour T&P and constructing 1.07m dia x 2.10 m deep soak way pit with R.C.C ring etc complete as per PHD design and specification including carriage of all materials to site.	2.00	Each	14359.98	28719.96
56	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 bakelitemm 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.				
	Group (A)	6.00	Nos	546.00	3276.00
	Group (B)	8.00	Nos	770.00	6160.00
	Group (C)	10.00	Nos	1051.00	10510.00
57	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.				
	On exising board	12.00	Nos	86.00	1032.00
58	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.	6.00	Nos	642.00	3852.00
59	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.	2.00	Nos	71.60	143.20
60	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.	2.00	Nos	594.00	1188.00

61	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.	40.00	Mtrs	139.00	5560.00
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 4.0 sqmm) as per direction of Engineer in Charge.	40.00	Mtrs	161.00	6440.00
63	Supply and Fixing of 48" AC Ceiling Fan usha /bajaj/Havells	2.00	Nos	2310.00	4620.00
64	Supply and Fixing of 18" Exhaust Fan (Usha /bajaj/panasonic)	2.00	Nos	3850.00	7700.00
65	Supply and Fixing of wall Fan usha /bajaj/havella	6.00	Nos	3250.00	19500.00
66	Supply and Fixing of 20w LED box type fitting complete	8.00	Nos	1011.00	8088.00
67	Supply and Fixing of LED Bulb 15W	6.00	Nos	280.00	1680.00
	GST Applicable				
		Total Estimated Cost RS.=		956247.99	
		Or Say RS.=		956248.00	
		Rupees (Nine Lakhs Fifty Six Thousand Two Hundred Forty Eight) only			

My Quoted Rate is%(both figure and word) Excess /Less / Equal to the above estimated cost.

Note:-

1.The Contractor should not write anything except quoting of percentage and incase of anything regarding tender

2. Stick out which are not applicable

Total:-67 (Sixty Seven)items only

No. of Correction

No. of overwriting

No. of Interpolation

Approved for 67 (Sixty Seven)items only

Full Signature of the Contractor with Date

Chief District Medical and Public Health Officer
Cum District Mission Director
Sundargarh