

BOQ

Construction of Dengula Sub Centre with EI,PH & Borewell at Koira Block for the year 2021-22					
Sl. No.	Item	Quantity	Unit	Rate	Amount
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.	86.16	Cum	186.37	16057.63
2	Supplying and Filling foundation and plinth with sand well watered and rammed including cost, cost of all labour, carriage, royalty, taxes, T&P etc. complete.	71.01	Cum	675.36	47957.31
3	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.	21.77	Cum	5115.52	111364.87
4	R.C.C. M-25 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.				
	(A) Column base and Column footing	12.74	Cum	5930.09	75549.34
	(B) Plinth band (Grade beam)	5.97	Cum	6280.59	37495.12
	(C) Lintel	2.68	Cum	9412.00	25224.16
	(D) Chhaja	12.07	Sqm	839.10	10127.93
	(E) Column in Superstructure, Beam (Ground Floor)	7.59	Cum	13006.63	98720.32
	(F) Roof Slab (Ground Floor)	12.79	Cum	9992.89	127809.06
	(G) Roof Slab (First Floor)	2.42	Cum	10918.17	26421.97
	(H) Staircase	1.68	Cum	11096.80	18642.62
	(I) Selves (37.50mm)	7.28	Sqm	680.16	4951.56
	(J) Column in Superstructure, Beam (First Floor)	1.70	Cum	14534.67	24708.93
	(K) Chhaja	0.60	Sqm	937.20	562.32
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.	3.24	Cum	6477.02	20985.54
6	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 steel.				
	Ground Floor	54.27	Qntl	7971.49	432612.76
	First Floor	2.48	Qntl	7994.80	19827.10

7	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. (Ground Floor)	102.53	Sqm	311.71	31959.62
	First Floor	20.24	Sqm	344.57	6974.03
8	Brick work with Flyash Ash. bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm2 with dimensional tolerance ±8 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.	28.51	Cum	4182.78	119251.05
9	Brick work with Flyash Ash. bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm2 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.				
	Ground Floor	42.37	Cum	4216.10	178636.15
	First Floor	14.06	Cum	4477.94	62959.83
10	Supplying M.S Door & 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.	1162.97	Kg	75.00	87222.75
11	Labour charge for fitting ,fixing of M.S door,window, grill , Gate including all costetc complete.	43.62	Sqm	67.40	2939.98
12	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. (Ground Floor)	99.35	Sqm	133.86	13298.99
	First Floor	4.25	Sqm	137.29	583.48
13	16mm 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. (Ground Floor)	111.16	Sqm	202.41	22499.89
	First Floor	57.74	Sqm	207.24	11966.03
14	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.				
	Ground Floor	206.71	Sqm	142.85	29528.52
	First Floor	75.62	Sqm	148.27	11212.17
15	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	163.59	4613.23

16	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 shades of the tiles including cost of tiles.	149.56	Sqm	766.17	114588.38
17	Supplying, fitting and fixing Vetrified tile in floors of size 600mm x 600mm of approved make conforming to IS 13755 laid 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.	73.79	Sqm	923.26	68127.35
18	Fixing Glazed tile (30cmx30cm / 40cm x 40cm (special plain/printed series ceramic tiles)of premium grade having thikness 7mm to 8 mm confirming to IS 13755) in floors,treads or steps and landing on 20mm thick bed of cement mortar 1:4(1cement:4 sand jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost of tile.	7.48	Sqm	705.59	5277.81
19	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.	16.44	Sqm	502.51	8261.26
20	Priming 1 coat with wall primer (water bond) of any approved shade including all costs complete.				
	Ground Floor	390.28	Sqm	58.20	22714.29
	First Floor	133.36	Sqm	60.60	8081.61
21	Finishing plastered surface of wall surface with Cement based putty & making smooth to recive painting including cost of scaffolding etc. with cost of all materials, labour T&P etc. complete.				
	Ground Floor	390.28	Sqm	71.75	28002.59
	First Floor	133.36	Sqm	73.05	9741.94
22	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.				
	Ground Floor	272.21	Sqm	63.35	17244.50
	First Floor	25.36	Sqm	64.80	1643.32
23	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 .				
	Ground floor	118.07	Sqm	71.10	8394.77
	First Floor	108.00	Sqm	73.67	7956.36

24	Fixing granite tile (Above 0.40 Sqm) (10mm thick) in floors treads or steps and landing on 20mm thick bed of cement mortar 1:4 (1cement : 4sand) jointed with neat cement slurry mixed with pigment to match the shades of the tiles including rubbing and polishing complete including cost, carriage, royalty & taxes of all material, cost of all labour T&P etc. complete.	1.52	Sqm	1526.86	2320.82
25	Fixing granite tile (Above 0.10 Sqm & UP TO 0.40 Sqm) (10mm thick) 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 rubbing and polishing complete including cost of material, labour, T&P etc. complete	0.21	Sqm	1628.61	342.00
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. (in all floor)	8.10	Rmtr	3497.00	28325.70
27	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
28	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
29	Fixing Wash down water closet (European type W.C) with intigral ' S ' or 'P' trap confirming to IS 2556:Part 8-2004 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 spcification				
(i)	White vitreous china Wash down water closet (EWC)	3.00	Nos	5234.10	15702.30
30	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.				
(i)	10.00 ltrs capacity Low level flushing cistern-White	3.00	Nos	1697.80	5093.40
31	Fixing of Brass Screw -Down Bib Cocks (Tap) Polished bright confirming to IS:781-1995 of the following nominal sizes as per specification complete.				
(i)	15 mm dia C.P. Brass Short Body Bib Cock	5.00	Nos	672.10	3360.50
(ii)	15 mm dia two way Bib Cock	3.00	Nos	1853.60	5560.80
(iii)	15 mm diameter long handle elbow operated bib cock	2.00	Nos	1482.50	2965.00
(iv)	15 mm diameter Pillar cock	2.00	Nos	696.90	1393.80
32	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.				
(i)	15 mm dia Brass Screw- down Stop Cock	5.00	Nos	656.00	3280.00
(ii)	125mm CP grating	7.00	Nos	72.90	510.30

33	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.				
(i)	Vitreous China flat back Wash Hand Basin of size 550 mm x 400 mm	2.00	Nos	2897.30	5794.60
34	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.				
(i)	Porcelain sink 510mm x 600mm x 225mm	1.00	Nos	4033.80	4033.80
35	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.				
(i)	Laboratory sink 600mm x 450mm x 300mm	1.00	Nos	8533.40	8533.40
36	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.				
(i)	1000 litres capacity PVC water storage tank	1.00	Nos	13981.50	13981.50
37	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.				
(i)	25 mm nominal outer dia pipe	25.00	Mtrs	265.50	6637.50
38	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.				
(i)	20 mm nominal outer dia pipe	20.00	Mtrs	227.10	4542.00
(ii)	25 mm nominal outer dia pipe	30.00	Mtrs	302.00	9060.00
39	Fixing of UPVC Ball Valve (Horizontal plunger type) confirming to IS: 1703-1977 as per specification & direction of Engineer-in-charge				
(i)	25 mm dia	4.00	Nos	624.50	2498.00

40	Providing and laying in trenches PVC pipe (4Kg/cm2) as sewer line and alining 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.				
(i)	75 mm PVC Pipe	10.00	Mtrs	843.90	8439.00
(ii)	110 mm PVC Pipe	10.00	Mtrs	885.10	8851.00
41	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.				
(i)	110 mm U-PVC Pipe	4.95	Mtrs	284.20	1406.79
(ii)	110 mm U-PVC 'P' trap	2.00	Each	294.20	588.40
(iii)	110 mm U-PVC door bend	2.00	Each	302.10	604.20
(iv)	110 mm U-PVC Plain bend	10.00	Each	287.10	2871.00
(v)	110 mm U-PVC Cowl	2.00	Each	77.30	154.60
(vi)	110 mm U-PVC Coupler	8.00	Each	130.30	1042.40
(vii)	75 mm U-PVC door bend	4.00	Each	207.90	831.60
(viii)	75 mm U-PVC Plain bend	8.00	Each	163.80	1310.40
(ix)	75 mm U-PVC Coupler	8.00	Each	97.60	780.80
42	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.				
(i)	15mm dia	7.00	Nos	195.40	1367.80
43	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.				
(i)	32mm dia	7.00	Nos	174.50	1221.50
44	Fixing chromium plated Brass waste of the following nominal diameter for wash basin and sink as per specification & direction of Engineer-in-charge.				
(i)	32mm dia	4.00	Nos	409.70	1638.80
45	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.				
(i)	250 mm thick wall	18.00	Nos	49.60	892.80

(ii)	375 mm thick wall	10.00	Nos	74.30	743.00
46	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.	30.00	Mtrs	182.90	5487.00
	125MMX100MM SIZE BORE WELL THROUGH ODEX METHOD:-				
47	Supplying all materials Labour T&P and drilling perfectly vertical bore hole in boulder formation areas with drawn the hole hammer drilling rigs or combination drilling rigs to suit the site condition with deployment of rig, necessary accessories and consumables for a specified depth below ground level including supply of necessary casing shoe, odex tools & plants, jointing materials, extra sockets where required withdrawing of pipes, lowering the M.S. (ERW) pipes & fitting & fixing in perfectly vertical position including cutting & welding for jointing the pipes for simultaneous casing lowering in over burden boulder formation till encounter of hard rock and to drill 125mm D.T.H. up to the desired depth as may be necessary , cleaning the site and washing bore etc. all complete providing sanitary sealing upto 5metres depth below ground level as per the direction of E.I.C.				
	(a)Drilling of 125mm. dia. Bore “o”mtr to 30mt	30.00	Mtr	1452.90	43587.00
	(b)Drilling of 125mm. dia. Bore “30”mtr to 60mt & above	0.00	Mtr	1452.90	0.00
48	Labour for drilling a perfectly vertical bore hole of 100mm dia. for a specified depth below ground boulder zone through consolidated and unconsolidated rock with down the hole hammer drilling rigs or combination drilling rigs as required to suit the site conditions as per the direction of E.I.C. including use of own rigs with its accessories , tools & plants and consumable etc. for soft , medium , hard rock formation as per direction of E.I.C.				
	(a)Drilling 100mm dia. Bore 40mtr to76 mtr & above	90.00	Mtr	480.20	43218.00
49	Lowering the folloing size M.S. Casing pipes from ground level up to 30mtrs and above depth and fitted and fixed up in perfectly vertical position including cutting, and threading pipe and supply and fixing all jointing materials tools and plants etc. complete and keeping the top plugging tube wells to prevent entry of foreign materials from above				
	(a)Cost of 125mm dia M.S. Casing pipes.	30.00	Mtr	1190.00	35700.00
50	.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 E.I.C				
	(a) Developing the tube well	1.00	Each	2147.00	2147.00
51	Supplying all materials labour T & P and withdrawing casing pipes from the unsuccessful bore as per the direction of E.I.C.	10.00	Mtr	173.70	1737.00

52(a)	Supplying all materials, labour, T & P and fitting and fixing of I.S.I. mark 1H.P. single phase vertical water cool submersible pump set with discharge 1800/2200Lit/Hour & a head-55/70mtr. of reputed make (C.R.I./K.S.B./Texmoor Equivelent) Including cost conveyance and taxes etc. all completes as per P.H. Specification and direction of E.I.C.	1.00	Each	13749.15	13749.15
(b)	Supplying all materials, labour, T & P and fitting & fixing of I.S.I. mark D.O.L. starter of reputed make like B.C.H. or equivalent for 1HP single phase vertical submersible pump set including all cost conveyance & taxes etc. all completes as per P.H. Specification and direction of E.I.C.	1.00	Each	2809.30	2809.30
(c)	Supplying all materials labour “T& P “ and fitting & fixing of 1.5mm2 3core copper flat suitable cable having I.S.I. mark of reputed company like B.C.H./ Finolex or equivalent & connecting the pump starter including cost conveyance & taxes etc. all completes as per P.H. Specification and direction of E.I.C.	70.00	mtr	71.70	5019.00
(d)	Supplying all materials labour “T& P “ and fitting & fixing plastic rope with MS well cover, M.S. Clamp, stainless steel short piece, Bend & socket, union including all cost conveyance & taxes etc. all completes as per P.H. Specification direction of E.I.C.	1.00	Set	1660.00	1660.00
(e)	Supplying all materials labour “T& P “ and fitting & fixing of H.D.P.E. pipes and pipe fittings with making connection to pump set including all cost conveyance & taxes etc. all completes as per P.H. Specification direction of E.I.C.				
	(a) 32mm dia H.D.P.E. pipe	70.00	Mtr	41.10	2877.00
	Electrification				
53	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.				
	Group (A)	12.00	Nos	584.20	7010.40
	Group (B)	10.00	Nos	690.00	6900.00
	Group (C)	12.00	Nos	829.00	9948.00
54	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 existing board	34.00	Nos	212.00	7208.00

55	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.	3.00	Nos	642.00	1926.00
56	Supplying and fixing batten holder / BK angle holder ISI marked including connection etc as required as per direction of Engineer in Charge.	28.00	Nos	43.00	1204.00
57	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
58	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.	6.00	Nos	71.60	429.60
59	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.	6.00	Nos	80.00	480.00
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.	4.00	Nos	419.00	1676.00
61	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.	4.00	Nos	1493.90	5975.60
62	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
63	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.	110.00	Mtrs	101.00	11110.00
64	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.	125.00	Mtrs	115.00	14375.00

65	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.	125.00	Mtrs	132.00	16500.00
66	Supply and Fixing of LED Bulb 12W	28.00	Nos	190.00	5320.00
67	Supply and Fixing of Ceiling Fan 1200mm blade	6.00	Nos	2080.00	12480.00
68	Supply and Fixing of Exhaust Fan 300mm	4.00	Nos	1908.00	7632.00
				Total Rs.=	2459067.50