

B.O.Q. for :

Construction of agricultural technology information centre, Jharkhand.

Estimated Cost : Rs. 12,57,200.00

Date of Tender :

Cost of B.O.Q. : Rs. 1,250.00

Sl.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
1.	Site Clearance & Lay Out			L/S.	500.00
2. 5.1.1	Earth work in excavation in foundation trenches in ordinary soil (vide classification of soil item-B) and disposal of excavated earth as obtained to a distance upto 50.0 M including all lifts, levelling, ramming the foundation trenches, removing roots of tree, shrubs all complete as per approved design, building, specification and direction of E/l.	51.505M ³	P/M ³	48.07	2475.83
3. 5.1.10	Providing coarse clean sand in filling in foundation trenches or in plinth including ramming and watering in layers not exceeding 150mm thick with all leads and lift including cost of all materials labours, royalty and taxes all complete as per building specification and direction of E/l. (Mode of measurement compacted volume)	59.025M ³	P/M ³	115.76	6832.75
4. 5.6.1	Providing designation 75A one brick flat soling joints filled with local sand including cost of watering taxes royalty all complete as per building specification and direction of E/l.	208.075M ²	P/M ²	122.92	25576.63
5. 5.3.2	Providing P.C.C.M-100 with nominal mix of (1:2:4) in foundation with approved quality of stone chips metal grade-III (20mm to 6mm size) graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing, taxes and royalty all complete as per building specification and direction of E/l.	10.402 M ³	P/M ³	3493.58	36341.62

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1	2	3	4	5	6
6. 5.2.3	Providing designation 75A brick work in C.M.(1:6) in foundation with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	40.030M ³	P/M ³	2164.22	86633.68
7. 5.3.16	Providing 25mm thick damp proof coarse with cement concrete M-150 with nominal mix of (1:2:4) with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening shuttering and mixing cement concrete in mixer with 5% cico or any other approved water proofing compound and placing in position, striking, curing taxes and royalty all complete as per building specification and direction of E/I.	19.503M ²	P/M ²	106.02	2067.69
8. 5.3.8	Providing RCC M-150 with nominal mix of (1: 2 :4) in lintel with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	3.930 M ³	P/M ³	4412.45	17340.00
9. 5.3.15	Providing av. 63mm thick RCC M-150 with nominal mix of (1:2:4) chajja with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including making drip course in concrete screening, centering, shuttering and mixing cement concrete in mixer and placing in position, vibrating, striking 6mm cement plaster (1:4) in ceiling and sides of Chajja with sand ogf F.M. 1.5, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	14.470M ²	P/M ²	525.39	7602.32

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10. 5.3.11	Providing R.C.C.M-150 with nominal mix of (1:2:4) in beam of all type level with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, centering, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	1.965 M ³	P/M ³	5338.87	10490.73
11. 5.3.9	Providing R.C.C.M-150 in nominal mix of (1:2:4) in roof slab level with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, centering, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	16.979M ³	P/M ³	4467.93	75862.13
12. 5.7.3	Providing 12mm thick cement plaster (1:6) with clean coarse sand of F.M. 1.5 including screening, curing with all leads and lifts of water, scaffolding, taxes, royalty all complete as per building specification and direction of E/I.	473.920M ²	P/M ²	60.88	28852.23
13. 5.7.6	Providing 6mm thick cement plaster (1:4) in ceiling with clean coarse sand of F.M. 1.5 including screening, curing with all leads and lifts of water, scaffolding, taxes, royalty all complete as per building specification and direction of E/I.	113.839M ²	P/M ²	60.57	6895.20

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14. 5.6.19 (i)	Providing & laying 15-20mm thick klotah stone slab flooring of approved quality over 19mm thick base of lime mortar (1:1:1) (lime putty : surkhi : coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing to granolithic finish with approved quality of carborandum stone including cost of curing taxes and royalty all complete as per building specification and direction of E/I. (Mode of measurement compacted volume) (300mm x 300mm size)	119.260 M ²	P/M ²	795.00	94812.03
15. 5.7.11	Providing 35mm, thick precast RCC M-150 with nominal mix of (1:2:4) shelves with approved quality of stone chips 12mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 with 1.5mm cement punning at top and side and 6mm cement plaster (1:4) at bottom including screening, curing and placing the slab in position (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	37.121 M ²	P/M ²	23.63	877.17
16. 5.6.23.4	Providing and laying 6mm precast white glazed tiles in walls over 12mm cement mortar (1:3) and jointed with grey cement slurry mixed flush pointed with white cement with white cement including rubbing and polishing and cost of curing, royalty and taxes all complete as per building specification and direction of E/I (With commercial grade coloured 15cm X 15cm tiles.)	15.661 M ²	P/M ²	599.96	9396.09
17. 5.8.24	Providing two coats snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, scaffolding, curing and taxes all complete as per building specification and direction of E/I.	587.758M ²	P/M ²	40.94	24062.82

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18. 5.5.29	Providing & fixing glazing in Aluminium door, windows, ventilator shutter and partition etc. with PVC/Neoprene gasket etc. all complete as per the architectural drawing and the direction of E/I.	22.506 M ²	P/M ²	2050.00	46137.00
19. DSR	30mm thick factory made shutter with frame, rail and panels of PVC extruded sections in white, grey or wooden finish ..do..do... all complete as per the architectural drawing and the direction of E/I.	3.255 M ²	P/M ²	1900.00	6184.50
20. 5.5.18	Supplying fitting & fixing fully glazed steel doors & windows or ventilator of standard rolled "Z" or mullion steel sections and size as per IS-1038 joints met and welded with 100 x 16 x 3mm M.S. lugs fixed in cement concrete (1:2:4) blocks 15 x 10 x 10xm, size including cost of oxidized iron fittings with hinges, handles per steps, catch sprinds, 3mm thick plain glass panes with Aluminium beads and inner frame fixed with lugs with 20mm long 6.3mm G.I. counter sink machine screw and nuts and applying a coat of red paint carriage to work site hoisting and placing in position in all storys and taxes all complete as per building specification and direction of E/I.	0.837 M ²	P/M ²	1719.55	1439.26
21. 5.5.12	Supplying, fitting and fixing M.S. grill made of 20mm x 6mm M.S. flat as per approved design and drawings properly fabricated with joints continuous fillet, welded and finished smooth, carriage of grill to work site, hoisting as per building specification and direction of E/I. (where material is not supplied by the Deptt.)	1036.380	Kg.	48.24	49994.97
22. 5.5.13	Providing and fixing Fan hook of 16mm dia M.S. bar 1 Mtr. long bent to required size and shape placed in position and fixed in RCC slab/beam at the frame of casting all complete as per building specification and direction of E/I	12 Nos.	Each	72.27	867.24

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23. 5.8.41 + 5.8.43	Providing two coat of ready mixed painting of approved shade and make over steel surface including cleaning the surface thoroughly scaffolding and taxes all complete as per building specification and direction of E/I.	78.446M ²	P/M ²	55.81	4378.06
24. 5.5.4	Providing Tor steel reinforcement 8mm dia rods as per approved design and drawing excluding carriage of M.S. rods (Straight or in coils) bars to work site cutting bending and binding with annealed wire with cost of wire, removal of rust placing the rods in position all complete as per building specification and direction of E/I. (TMT Coil Fe-500)	2.118 MT	P/MT	43724.78	92605.45
25. 5.10.34	Providing 150mm wide brick drain in cement mortar (1:6) with average 150mm clear depth and 125mm apron including cost of earth work involved with 75mm cement concrete (1:4:3) over one brick designation 75A, flat soling in proper grade and dslope at the base the drain duly plastered in C.M. (1:3) with punning over exposed surface all complete as per building specification and direction of E/I.	48.664 M	M	290.53	14138.46
26.	<u>Carriage of Materials :</u> Carriage of materials from different surface or departmental stores to work site including loading, transporting, unloading and stacking the materials at work site etc. all complete job. as per direction of E/I. Sand - Cement- Chips- Bricks- Steel -	167.00M ³ 40.20MT 90.29M ³ 63393 Nos. 2.12 MT	P/M ³ P/Mt P/M ³ P%oNos. P/MT	162.78 101.74 295.98 495.44 101.74	27184.06 4090.31 26725.23 31407.67 215.48

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B.O.Q. for : Construction of generator room at Agriculture Technology Information Centre, Jharkhand. (PART-B)

Sl.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
27. 5.1.1	Earth work in excavation in foundation trenches in ordinary soil (vide classification of soil item-B) and disposal of excavated earth as obtained to a distance upto 50.0 M including all lifts, levelling, ramming the foundation trenches, removing roots of tree, shurbs all complete as per approved design, building, specification and direction of E/I.	9.195 M ³	P/M ³	48.07	441.99
28. 5.1.10	Providing coarse clean sand in filling in foundation trenches or in plinth including ramming and watering in layers not exceeding 150mm thick with all leads and lift including cost of all materials labours, royalty and taxes all complete as per building specification and direction of E/I. (Mode of measurement compacted volume)	5.238 M ³	P/M ³	115.76	606.31
29. 5.6.1	Providing designation 75A one brick flat soling joints filled with local sand including cost of watering taxes royalty all complete as per building specification and direction of E/I.	21.295 M ²	P/M ²	122.92	2617.60
30. 5.3.2	Providing P.C.C.M-100 with nominal mix of (1:2:4) in foundation with approved quality of stone chips metal grade-III (20mm to 6mm size) graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing, taxes and royalty all complete as per building specification and direction of E/I.	1.474 M ³	P/M ³	3493.58	5148.57

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1	2	3	4	5	6
31. 5.2.3	Providing designation 75A brick work in C.M.(1:6) in foundation with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	6.983 M ³	P/M ³	2164.22	15112.26
32. 5.3.16	Providing 25mm thick damp proof coarse with cement concrete M-150 with nominal mix of (1:2:4) with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening shuttering and mixing cement concrete in mixer with 5% cico or any other approved water proofing compound and placing in position, striking, curing taxes and royalty all complete as per building specification and direction of E/I.	3.344 M ²	P/M ²	106.02	354.52
33. 5.2.11	Providing designation 75A brick work in cement mortar (1:6) in superstructure and plinth with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	8.083 M ³	P/M ³	2208.50	17850.80
34. 5.3.8	Providing RCC M-150 with nominal mix of (1: 2 :4) in lintel with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	0.672 M ³	P/M ³	4412.45	2963.31

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1	2	3	4	5	6
35. 5.3.15	Providing av. 63mm thick RCC M-150 with nominal mix of (1:2:4) chajja with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including making drip course in concrete screening, centering, shuttering and mixing cement concrete in mixer and placing in position, vibrating, striking 6mm cement plaster (1:4) in ceiling and sides of Chajja with sand ogf F.M. 1.5, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	1.535M ²	P/M ²	525.39	806.21
36. 5.3.9	Providing R.C.C.M-150 with nominal mix of (1:2:4) in roof slab of all type level with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, centering, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	1.497 M ³	P/M ³	4467.93	6687.66
37. 5.7.3	Providing 12mm thick cement plaster (1:6) with clean coarse sand of F.M. 1.5 including screening, curing with all leads and lifts of water, scaffolding, taxes, royalty all complete as per building specification and direction of E/I.	9.300 M ²	P/M ²	60.88	563.30
38. 5.7.6	Providing 6mm thick cement plaster (1:4) in ceiling with clean coarse sand of F.M. 1.5 including screening, curing with all leads and lifts of water, scaffolding, taxes, royalty all complete as per building specification and direction of E/I.	11.223 M ²	P/M ²	60.57	563.30

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1	2	3	4	5	6
39. 5.6.9	Providing 50mm thick cement concrete flooring (1:2:4) with 20mm to 6mm size grades stone chips finished with floating coat of neat cement in panels including cost of curing, finishing the surface smooth by rubbing with carborandum stone, taxes and royalty all complete as per building specification and direction of E/I.	11.223 M ²	P/M ²	224.80	2522.98
40. 5.5.24	Providing two coats snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, scaffolding, curing and taxes all complete as per building specification and direction of E/I.	87.297M ²	P/M ²	40.94	3573.95
41. 5.5.29	Supplying fitting and fixing 20 gauge GCI sheet gate fitted on M.S. angle frame of size 60 x 60 x 6mm including cost of fabrication, providing necessary locking arrangement with haskal and domny duly fixed in PCC (1:2:4) blocks of required size applying a priming red lead paint over steel work taxes all complete as per building specification and direction of E/I.	4.511 M ²	P/M ²	1896.57	8554.48
42. 5.5.18	Supplying fitting & fixing fully glazed steel doors & windows or ventilator of standard rolled "Z" or mullion steel sections and size as per IS-1038 joints met and welded with 100 x 16 x 3mm M.S. lugs fixed in cement concrete (1:2:4) blocks 15 x 10 x 10xm, size including cost of oxidized iron fittings with hinges, handles per steps, catch sprinds, 3mm thick plain glass panes with Aluminium beads and inner frame fixed with lugs with 20mm long 6.3mm G.I. counter sink machine screw and nuts and applying a coat of red paint carriage to work site hoisting and placing in position in all storys and taxes all complete as per building specification and direction of E/I.	0.837 M ²	P/M ²	1719.55	1439.26

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1	2	3	4	5	6
43. 5.5.13	Providing and fixing Fan hook of 16mm dia M.S. bar 1 Mtr. long bent to required size and shape placed in position and fixed in RCC slab/beam at the frame of casting all complete as per building specification and direction of E/I	1 No.	Each	72.27	72.27
44. 5.8.41 + 5.8.43	Providing two coat of ready mixed painting of approved shade and make over steel surface including cleaning the surface thoroughly scaffolding and taxes all complete as per building specification and direction of E/I.	9.021 M ²	P/M ²	55.81	503.46
45. 5.5.4	Providing Tor steel reinforcement 8mm dia rods as per approved design and drawing excluding carriage of M.S. rods (Straight or in coils) bars to work site cutting bending and binding with annealed wire with cost of wire, removal of rust placing the rods in position all complete as per building specification and direction of E/I. (TMT Coil Fe-500)	0.202 MT	P/MT	43724.78	8826.57
45.	<u>Carriage of Materials :</u> Carriage of materials from different surface or departmental stores to work site including loading, transporting, unloading and stacking the materials at work site etc. all complete job. as per direction of E/I.				
	Sand -	14.6797M ³	P/M ³	162.78	2389.57
	Cement-	3.6108MT	P/Mt	101.74	367.36
	Chips-	5.2789M ³	P/M ³	295.98	1562.44
	Bricks-	6804.4340Nos.	P%oNos.	495.44	3371.19
	Steel -	0.201MT	P/MT	101.74	20.54

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B.O.Q. for : Construction of Septic Tank & Toilet at Agriculture Technology Information Centre, Jharkhand

Sl.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
47. 5.1.1	Earth work in excavation in foundation trenches in ordinary soil (vide classification of soil item-B) and disposal of excavated earth as obtained to a distance upto 50.0 M including all lifts, levelling, ramming the foundation trenches, removing roots of tree, shurbs all complete as per approved design, building, specification and direction of E/l.	15.434M ³	P/M ³	48.07	741.92
48. 5.1.10	Providing coarse clean sand in filling in foundation trenches or in plinth including ramming and watering in layers not exceeding 150mm thick with all leads and lift including cost of all materials labours, royalty and taxes all complete as per building specification and direction of E/l. (Mode of measurement compacted volume)	1.826 M ³	P/M ³	115.76	211.41
49. 5.6.1	Providing designation 75A one brick flat soling joints filled with local sand including cost of watering taxes royalty all complete as per building specification and direction of E/l.	13.126 M ²	P/M ²	122.92	1613.45
50 5.3.2	Providing P.C.C.M-100 with nominal mix of (1:2:4) in foundation with approved quality of stone chips metal grade-III (20mm to 6mm size) graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing, taxes and royalty all complete as per building specification and direction of E/l.	0.843 M ³	P/M ³	3493.58	2945.04

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1	2	3	4	5	6
51. 5.2.3	Providing designation 75A brick work in C.M.(1:6) in foundation with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	7.448 M ³	P/M ³	2164.22	16119.10
52. 5.3.16	Providing 25mm thick damp proof coarse with cement concrete M-150 with nominal mix of (1:2:4) with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening shuttering and mixing cement concrete in mixer with 5% cico or any other approved water proofing compound and placing in position, striking, curing taxes and royalty all complete as per building specification and direction of E/I.	3.448 M ²	P/M ²	106.02	365.85
53. 5.3.8	Providing designation 75A brick work in cement mortar (1:6) in superstructure and plinth with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, raking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	4.396 M ³	P/M ³	2208.50	9709.27
54 5.3.8	Providing RCC M-150 with nominal mix of (1: 2 :4) in lintel with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	0.074 M ³	P/M ³	4412.45	324.92

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1	2	3	4	5	6
55 5.3.15	Providing av. 63mm thick RCC M-150 with nominal mix of (1:2:4) chajja with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including making drip course in concrete screening, centering, shuttering and mixing cement concrete in mixer and placing in position, vibrating, striking 6mm cement plaster (1:4) in ceiling and sides of Chajja with sand ogf F.M. 1.5, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	0.419 M ²	P/M ²	525.39	219.88
56. 5.3.11	Providing R.C.C.M-150 with nominal mix of (1:2:4) in beam of all type level with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, centering, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	0.101 M ³	P/M ³	5338.87	538.12
57. 5.3.9	Providing R.C.C.M-150 in nominal mix of (1:2:4) in roof slab level with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, centering, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	0.777 M ³	P/M ³	4467.93	3470.253

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1	2	3	4	5	6
58. 5.7.3	Providing 12mm thick cement plaster (1:6) with clean coarse sand of F.M. 1.5 including screening, curing with all leads and lifts of water, scaffolding, taxes, royalty all complete as per building specification and direction of E/I.	63.241 M ²	P/M ²	60.88	3850.11
59. 5.7.6	Providing 6mm thick cement plaster (1:4) in ceiling with clean coarse sand of F.M. 1.5 including screening, curing with all leads and lifts of water, scaffolding, taxes, royalty all complete as per building specification and direction of E/I.	1.139 M ²	P/M ²	60.57	69.00
60. 5.7.11	Providing 35mm, thick precast RCC M-150 with nominal mix of (1:2:4) shelves with approved quality of stone chips 12mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 with 1.5mm cement punning at top and side and 6mm cement plaster (1:4) at bottom including screening, curing and placing the slab in position (but excluding the cost of reinforcement) taxes and royalty all complete as per building specification and direction of E/I.	□ _s 35.619 M ²	P/M ²	23.63	841.68
61. 5.6.9	Providing 50mm thick cement concrete flooring (1:2:4) with 20mm to 6mm size grades stone chips finished with floating coat of neat cement in panels including cost of curing, finishing the surface smooth by rubbing with carborandum stone, taxes and royalty all complete as per building specification and direction of E/I.	3.011 M ²	P/M ²	224.80	676.84
62. 5.8.24	Providing two coats snowcem of approved shade and make over a coat of cement primer on new surface including preparing the plastered surface smooth with sand paper, scaffolding, curing and taxes all complete as per building specification and direction of E/I.	64.380 M ²	P/M ²	40.94	2635.72

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1	2	3	4	5	6
63. 5.5.29	Supplying fitting and fixing 20 gauge GCI sheet gate fitted on M.S. angle frame of size 60 x 60 x 6mm including cost of fabrication, providing necessary locking arrangement with haskal and domny duly fixed in PCC (1:2:4) blocks of required size applying a priming red lead paint over steel work taxes all complete as per building specification and direction of E/I.	1.395 M ²	P/M ²	1896.57	2645.72
64. 5.8.41 + 5.8.43	Providing two coat of ready mixed painting of approved shade and make over steel surface including cleaning the surface thoroughly scaffolding and taxes all complete as per building specification and direction of E/I.	2.790 M ²	P/M ²	55.81	155.71
65. 5.5.4	Providing Tor steel reinforcement 8mm dia rods as per approved design and drawing excluding carriage of M.S. rods (Straight or in coils) bars to work site cutting bending and binding with annealed wire with cost of wire, removal of rust placing the rods in position all complete as per building specification and direction of E/I. (TMT Coil Fe-500)	0.087 MT	P/MT	43724.78	3796.83
66. 12.3.7	Supplying all materials and labour for constructing inspection chamber of designation class 75B brick size 750mm deep 600 X 450mm internal dimension having 250mm wall thickness for cement mortar (1:6) including 12mm cement plaster (1:4) with punning on inside and cement plaster (1:6) alongwith earthwork in excavation and 80mm thick P.C.C. (1:3:6) in foundation and refilling all complete job as per specification and direction of E/I.	3.0 Nos.	Each	4589.64	13768.92

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67.	<p><u>Carriage of Materials :</u> Carriage of materials from different surface or departmental stores to work site including loading, transporting, unloading and stacking the materials at work site etc. all complete job. as per direction of E/I.</p> <p>Sand - Cement- Chips- Bricks- Steel -</p>	<p>8.2242M³ 2.2108MT 2.2367M³ 5232 Nos. 0.0868 MT</p>	<p>P/M³ P/Mt P/M³ P%₀Nos. P/MT</p>	<p>162.78 101.74 295.98 495.44 101.74</p>	<p>1338.73 224.92 662.03 2592.60 8.83</p>

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B.O.Q. for : Construction of deep boring at Agriculture Technology Information Centre, Jharkhand.

Sl.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
68	Supplying all materials, labours and tools and equipment for drilling 200 X 150mm dia bore well in any kinds of soil and rock by using D.T.H. super rig machine and ball hammer technology inclusive of mobilization, demobilization, demobilization of rigs, air compressor, all accessories of rigs, air compressor, all accessories tools and plant labour etc. all complete job including transportation charge. a) 0.00 M to 30.00 M below G.L. b) 30.00 M to 60.00 M below G.L. c) 60.00 M to 90.00 M below G.L. d) 90.00 M to 121.95 M below G.L.				
		30.00 M	P/M	450.00	13500.00
		30.00 M	P/M	500.00	15000.00
		30.00 M	P/M	550.00	16500.00
		31.95 M	P/M	600.00	19170.00
69	Supplying all materials, labours and lowering G.I. casing pipe 150mm internal dia for protection of bore hole in over burfden upto hard surface depth including all expenditure and grouting casing pipe etc. all complete job as per specification and direction of E/I.	30.00 M	P/M	675.00	20250.00
70	Cleaning flushing and developing of drilled hole for testing the discharge of water development of bore well by continuous flow of water by using heavy compressor upto satisfaction of E/I. to get uninterrupted flow of water free from sand and soil etc. a) 2 hrs. operation	2 Hrs.	P/Hr.	700.00	1400.00
71	Supplying and fitting M.S. Cap over 200mm dia casing pipe as per direction of E/I. for safety of drilled bore including provision of guard for safety of the same till returned final.	1 No.	Each	890.00	890.00

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1	2	3	4	5	6
72	Installation of pump & fitting with electrification				
	a) 1 No. submersible Pump (1.5 HP)	1.00	Each	19500.00	19500.00
	b) Panelled Board	1.00	Each	2500.00	2500.00
	c) 2.5 mm ² submersible cable	120 Mtr.	P/Mtr.	45.00	5400.00
	d) 38mm dia PVC submersible pipe	90 Mtr.	P/Mtr.	145.00	13050.00
	e) Rope – 8 No.	90 Mtr.	P/Mtr.	15.00	1350.00
	f) Labour cost for lowering and plumbing work and electrification work.	1 No.	Each	3500.00	3500.00
	g) Accessories of 38mm dia pipe –	1 No.	Each	2500.00	2500.00

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B.O.Q. for : Cost of Electrical work at Agriculture Technology Information Centre, Jharkhand.

Sl.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
73 DSR	Wiring for light point /exhaust fan point/call bell point with 1.5 Sq.mm FRPVC insulated copper conductor cable in surface/redressed PVC conduit as required with piano type switch, phenolic, laminated sheet M.S. box earthing the point PVC insulated copper with 1.5 Sq.mm with taxes all complete as per approved design, drawing, building & electrical specification and direction of E/I.	28 Nos.	Each	472.43	13228.04
74 DSR	Supplying & fixing following piano type switch/socket on the existing M.S. box earthing the point PVC insulated copper with 1.5 sq.mm with taxes all complete as per approved design, drawing, building & electrical specification and direction of E/I.				
	a) 5 Pin – 5/6 Amp. Socket	10 Nos.	Each	28.00	280.00
	b) 5 Pin – 15 Amp. Socket	16 Nos.	Each	70.00	1120.00
	c) 15 Amp. Switch	16 Nos.	Each	70.00	1120.00
75 DSR	Wiring for light point/power plug wiring with 2 x 4 Sq.MM FR PVC insulated copper conductor single core in surface/redressed PVC conduit along with 1 no. 4 Sq.Mm FR PVC insulated copper for loop earthing etc. as required with taxes all complete as per approved design, drawing, building & electrical specification and direction of E/I.	80 Mtr.	P/M	115.43	9234.40
76 MR	Earthing with G.I. pipe 4.5 mtr. long 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt etc. as required with taxes all complete as per approved design and drawing building & electrical specification and direction of E/I.	1 No.	Each	14000.00	14000.00

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1	2	3	4	5	6
77.	Design, fabrication & Assembling of LT panel Board				
	a) 300 Amp. F/P Bushbar	1 No.	No.	2025.00	2025.00
	b) 40Amp. TPN MCB	1 No.	No.	1080.00	1080.00
	c) 16 Amp. DP MCB	2 Nos.	No.	500.00	1000.00
	d) 25 Amp. DP MCB	5 Nos.	No.	550.00	2750.00
	e) 10 Amp. DP MCB	1 No.	No.	600.00	600.00
	f) 32 Amp. DP MCB	5 Nos.	No.	250.00	1250.00
	g) 32 Amp. TPN MCB	1 No.	No.	900.00	900.00
	h) Volt Amp. Meter S. Switch, LT switch, Indicator	1 No.	No.	3500.00	3500.00
78 MR	Panel wiring & Accessories : Copper wire, lugs, heat , Shirkablw tape, winder knob, insulator, binding strap & hardware.	1 No.	Each	2500.00	2500.00
79 MR	L.T. control electrical distribution panel is made of 16 SWG CRCA steel sheet, it is floor operated, virmin proof, IP 54 protection an sdequate size duly painted with red primer & two coats of enamelaints with all complete locking arrangement.	1 No.	Each	3000.00	3000.00
80 MR	Supplying and fixing electrical armoured cable 25mm x 4 core wiring from main switch with all complete job as per E/I.	40 Mtr.	P/M	202.00	8080.00
Grand Total = Rs.					1257200.00

(Rupees Twelve lakh fifty seven thousand two hundred only)

Bill of quantity amounting Rs. 12,57,200.00 (Rupees twelve lakh fifty seven thousand two hundred) only for constr. of agricultural information centre, Jharkhand.

M. V. Singh
22/11/10

Chief Engineer

R. D. Special Zone Ranchi

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22/11/10