

BILL OF QUANTITY

Construction of panchayat sarkar bhawan in Sasaula panchayat of Suppi Block, Sitamarhi district

BOQ COST:

23694646.00

EARNEST MONEY:

473900.00

BILL OF QUANTITY

S.NO	ITEM CODE	DESCRIPTION OF ITEMS	UNIT	QTY	RATE	AMOUNT
	2.6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed.				
1	2.6.1	All kinds of soil	cum	678.22	537.60	364611.63
2	2.3.1-2.4	Filling Earthwork in Approach road and Entrance and flanke without rolling with power roller	cum	10.79	377.80	4078.22
3	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth : consolidating each deposited layer by ramming and watering lead.	cum	435.00	177.00	76995.00
4	2.28	Supplying and filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	cum	645.37	342.50	221039.48
5	4.1.6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6	cum	56.36	4361.30	245796.90
6	4.12	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufactures.	Per 50 kg Cement	612.00	60.80	37209.60
	5.9	Centring and shuttering including strutting, propping etc. and removal of form for:				
7	5.9.1	Foundations, footings, bases of columns, etc., for mass concrete.	sqm	203.00	272.30	55276.90
8	5.9.3	Suspended floors, roofs, landings, balconies and access platform	sqm	714.00	618.20	441394.80
9	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	1024.00	513.90	526233.60
10	5.9.6	Columns, Pillars, Piers, Abutments, Post and struts	sqm	505.00	678.80	342794.00
11	5.9.7	Stairs, (excluding landings) except spiral staircases.	sqm	9.00	571.70	5145.30
12	5.9.13	Vertical and Horizontal fins individually or forming box louvers band, facias and eaves boards.	sqm	21.00	871.00	18291.00
13	5.9.19	Wheather shade, Chajja, corbels etc., including edges.	sqm	25.00	708.20	17705.00
14	5.9.16.1	Edges of slabs and breaks in floors and walls : under 20 cm wide	m	96.00	162.72	15621.12
	5.22	Reinforcement for RCC work including straightening, Cutting, bending, placing in position and binding all complete.				
15	5.22.7a	TMTC-500- 8mm dia.	kg	11868.00	94.70	1123899.60
16	5.22.7b	TMTC-500-10 mm dia.	kg	8610.89	92.50	796506.98
17	5.22.7c	TMTC-500-12 mm dia.	kg	8484.24	91.00	772065.84
18	5.22.7d	TMT FE-500-16 mm dia.	kg	15069.60	91.00	1371333.60
19	5.22.7e	TMT FE-500-20 mm dia.	kg	5133.60	91.00	467157.60
20	5.22.7f	TMT FE-500-25 mm dia.	kg	6254.16	91.00	569128.56
	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and including retard setting of concrete, improve workability without impairing strength and admixtures in recommended proportions as per IS: 9103 to accelerate, reinforcement, durability as per direction of Engineer-in-charge.				
		all work upto plinth				
21	5.33.1	All work upto plinth level	cum	193.00	6520.52	1258460.36
22	5.33.2	All work from plinth level upto floor V level.	cum	234.30	6520.52	1527757.84
	6.1c	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth and superstructure				
23	6.1.14c	Cement mortar 1:6 (1 cement: 6 coarse sand) - 250 mm and 125 mm th Brick work in superstructure	cum	298.00	5745.65	1712203.70
24	6.1.12c	Cement mortar 1 : 4 (1 cement : 4 coarse sand)- th Brick work and upto plinth	cum	77.00	5961.40	459027.80
25	6.3c	Extra for Brick work in superstructure above plinth level upto floor II cum	cum	298.00	517.20	154125.60
	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
26	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	80.00	1952.00	156160.00

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	9.96	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete:				
27	9.96.1	300 x 16 mm	each	35.00	267.96	9378.60
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc. complete:				
28	9.97.1	300 x 10 mm	each	70.00	123.37	8635.90
29	9.98	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.	each	35.00	89.45	3130.75
	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:				
30	9.100.1	125 mm	each	70.00	62.79	4395.30
	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
31	9.101.2	Twin rubber stopper	each	35.00	65.67	2298.45
32	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (overall area of door shutter to be measured)	sqm	80.00	426.79	34143.20
	9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:				
	9.40.1	2nd class teak wood				
33	9.40.1.2	50 x 20 mm	m	0.00	234.38	0.00
	9.147D	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance				
34	9.147D.1	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)	sqm	88.00	7522.70	661997.60
35	10.15.2	Providing and fixing pressed steel door frame confirming IS code 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50 x 25 mm or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:	m	151.00	447.20	67527.20
36	10.18	Providing and fixing M.S. fan clamp type I or II of 16 mm dia. M.S. bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop, all as per standard design complete.	each	50.00	183.45	9172.73
	10.32	Steel work welded in built up section/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required				
37	10.32.2	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kg	857.00	136.60	117066.20
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
38	9.48.1	Fixed to steel windows by welding.	kg	1533.00	176.40	270421.20
	10.33	Providing and fixing hand rail by welding etc. to steel ladder railings & staircases railing including applying a priming coat of approved steel primer				

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39	10.33.1	MS tube (medium) 40 mm nominal dia	kg	162.00	139.10	22534.20
40	10.3	Providing and fixing in position collapsible steel shutters with vertical channes 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-tron 40x40x6 mm with 40 mm dia steel pulleys complete with bots.nuts locking arrangement stoppers handies including applying a priming coat of approved steel primer	sqm	29.12	8344.42	243022.89
41	11.72	Providing designation 100 A 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.	sqm	1002.00	342.80	343485.60
42	11.73	Providing designation 100 A one brick edge soling joints filled with local sand including cost of watering taxes, royalty all complete as per building specification and direction of E/I.	sqm	118.21	513.30	60674.92
	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to ben specified by the manufactruer) with water absorption's less than 0.08 % and conforming to IS 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc., complete				
43	11.41.2	Size of Tile 600x600 mm	sqm	367.00	2101.20	771140.40
	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.				
44	11.46.2	Size of Tile 600 x 600 mm.	sqm	30.08	1399.40	42093.95
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand) / 1:4 (1 cement: 4 coarse sand)				
45	11.26.1	20 to 25 mm thick	sqm	318.00	1543.60	490864.80
46	11.27	Kota stone slabs 20 mm thick in risers of steps skirting. Dado & pillars laid on 12 mm (average (thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. Details of cost for 10 sqm	sqm	16.00	1749.50	27992.00
47	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete	sqm	22.37	839.20	18770.33
48	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Motar 1:3 (1cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	72.00	977.60	70387.20
	11.20	Chequerred precast cement concrete tiles 22 mm thick with marbie chips of size 6 mm in footpath & coutyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning tec. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)				
49	11.20.2	Medium shade using 50% white cement 50% grey cement	sqm	31.03	1118.84	34715.40
	13.11	12 mm cement plaster of mix				
50	13.11.4	1:6 (1 cement : 6 coarse sand)	sqm	1447.00	183.50	265524.50
	13.17	12 mm cement plaster 1:3(1 cement: 3 coarse sand) finished with a				
51	13.17.1	floating coat of neat cement	sqm	126.05	257.90	32508.20
	13.12	15 mm cement plaster of mix				
52	13.12.4	1:6 (1 cement : 6 coarse sand)	sqm	1001.00	210.90	211110.90
	13.24	6 mm cement plaster to ceiling of mix.				
53	13.24.2	1:4 (1 cement : 4 coarse sand)	sqm	675.00	164.00	110700.00
54	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	3123.00	135.75	423947.25
	13.77	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.				
55	13.77.2	New work (two or more coats) over and including priming coat with cement primer.	sqm	2122.00	137.93	292687.46
	13.81	Applying priming coat:				
56	13.81.1	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	sqm	160.00	51.50	8240.00
57	13.81.3	With ready mixed red oxide zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	174.00	45.70	7951.80

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	13.93	Painting with synthetic enamel paint of approved brand and manufacture to give an even shed.				
58	13.93.1	Two or more coats on new work	sqm	334.00	109.83	36683.22
59	13.116	Forming groove of uniform size from 12 x 12 mm and upto 25 x 15 mm in plastered surface as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and direction of the Engineer-in-charge.	m	266.00	64.40	17130.40
	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
60	13.46.1	New work (Two or more coat applied @ 1.67 Ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10 sqm)	sqm	1001.00	163.88	164043.88
	22.14	Grading roof for water proofing treatment				
61	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	18.00	5825.69	104862.42
62	12.39	Making khurras 45 x 45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1cement:3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.	each	12.00	218.40	2620.80
	2.37	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (including the cost of chemical emulsion) :				
	2.37.1	Along external wall where the apron is not provided using chemical imulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete.				
63	2.37.1.1	With chlorpyrifos / Lindane E.C. 20% with 1% concentration.	m	117.00	48.20	5639.40
	2.37.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.				
64	2.37.2.1	With Chlorpyrifos/ Lindane E.C. 20% with 1% Concentration.	m	117.00	59.20	6926.40
	2.37.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor.				
65	2.37.3.1	With chlorpyrifos / Lindane E.C. 20% with 1% concentration.	sqm	535.00	308.60	165101.00
66	2.29.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m all kind of soil	100sqm	573.50	1985.00	11383.98
67	2.32	Clearing jungle including uprooting of rank vegetation ,grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared	100sqm	573.50	1022.93	5866.50
	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.				
68	4.1.3	1:2:4 (1 Cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	cum	33.36	5314.60	177305.51
	6.1.14	Brick work with bricks of class designation 100A in foundations and plinth in :				
69	6.1.14A	Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	3.41	5785.70	19756.72
70	6.1.12A	Cement mortar 1 :.4 (1 cement: 4 coarse sand)	cum	5.46	6006.50	32772.97
	5.1	Providing and laying in position specified grade of reinforced cementconcrete excluding the cost of centring,shuttering,finishing andreinforcement-All work puto plinth level				
71	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate20 mm nominal size)	cum	2.21	6116.50	13488.70
		CARRIAGE OF MATERIALS				
72		Bricks (lead - 1 km kutcha + 7 km pucca)	per 1000 nos	264854.50	1363.96	361250.94
73		Coarse Sand	cum	420.06	2749.93	1155145.17
74		Stone Chips	cum	463.53	2680.22	1242360.26
75		Local sand (1 km kutcha + 2 km pucca)	cum	663.49	342.3	227113.02
		Extra Cost of Material				
76		Cement	Per bag	6818	13.23	90202.00
77		Bricks	per 1000	42726.21	412.56	17627.32
		S FEE				
78		Bricks (lead - 1 km kutcha + 7 km pucca)	per 1000 nos	42726.21	535.5	22879.88
79		Coarse Sand	cum	420.06	25.08	10535.19
80		Stone Chips	cum	463.53	80.79	37448.52
81		Local sand (1 km kutcha + 2 km pucca)	cum	663.49	21.69	14391.12
82		Earth	cum	445.7947	3.3	1471.12

		CIVIL + SEPTIC TANK			A	₹ 2,13,50,545.41
	1.3	Wiring for light point/ fan point/ exhaust fan point / call bell point with 1.5 Sq.mm FR PVC insulated copper conductor cable in recessed PVC conduit with modular type switch , modular plate, suitable size GI box etc as required.				
83	1.3.3	Group C	Point	45.00	1146.00	51570.00
84	1.31	Supplying and fixing suitable size GI box with modular plate and cover in recess including providing and fixing modular type 3 pin 5/6 amps socket outlet & 6A switch connection etc. as required.	Each	44.00	414.00	18216.00
85	1.32	Supplying and fixing of suitable size GI box with modular plate and cover in recess including providing and fixing modular 6 pin 15/16 amp socket outlet & 15/16 amp modular switch including connection, painting etc as required	Each	28.00	531.00	14868.00
86	1.5	Wiring for light/ power plug plug with 2 X 4 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit along with 1 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required	meter	420	309	129780.00
87	1.33	Supplying and fixing 2 pin, 6 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	149.00	64.00	9536.00
88	1.34	Supplying and fixing Batten/angle holder on the existing junction box/pvc box including connection etc. as required.	Each	19.00	80.00	1520.00
	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
89	1.7.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Meter	406.00	201.00	81606.00
90	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	330.00	246.00	81180.00
91	1.7.11	4 X 6 sq. mm + 1 X 6 sq. mm earth wire	Meter	40.00	660.00	26400.00
92	1.7.12	4 X 10 sq. mm + 1 X 10 sq. mm earth wire	Meter	75.00	925.00	69375.00
	1.15	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed PVC conduit as required				
93	1.15.1	1 X 1.5 sq. mm	Meter	310.00	38.00	11780.00
94	1.38	Supplying and fixing electronic musical call suitable for single phase, 230 volts complete bell as required.	Each	1.00	351.00	351.00
95	1439	Supplying and fixing modular type 25 amps A.C. unit box with ON/OFF MCB on surface or in recess complete with connections, testing and commissioning etc as required.	Each	19.00	528.20	10035.80
96	AR	Supplying and fixing Suitable G.I box with modular plate & cover in front of surface or in recess including providing and fixing 4 nos. 3 pin 5/6 amps modular socket outlet & 4 nos 5/6 amps modular switch, connection etc as required. (Use for computer point)	Each	22.00	1235.00	27170.00
	2.9	Supplying and fixing following way, horizontal type, three pole & neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus - bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator				
97	2.9.1	4 way (4 + 12), double door, horizontal type	Each	5.00	4184.00	20920.00
	2.12	Supplying and fixing following rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
98	2.12.1	6 Amp. To 32 Amp. SP MCB Group-B 240 Volt	Each	60.00	237.00	14220.00
99	2.12.8	40/63 Amps, Tripole pole and neutral	Each	5.00	2329.00	11645.00
100	5.7.5	Supplying and fixing recess mounted 18 watt LED downlighter complete with integrated electronic driver & LED directly on ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	74.00	1509.00	111666.00
101	6.1.6	Supplying and fixing of following types lamp in the existing electrical fitting/ fixtures etc. as required. 15 watt LED lamp	Each	22.00	250.00	5500.00
102	5.8.3	Supplying and fixing Surface mounted 15/18 watt LED downlighter complete with integrated electronic driver & LED directly on ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	6.00	1694.00	10164.00
103	5.6.2	Supplying and fixing following types aluminum extruded suspended type LED luminaire with minimum efficacy 100lm/w ensuring continuous illumination including suspension system complete with electronic driver etc and connection with 1.5 sq mm FRLS PVC insulate copper conductor cable as required 4feet* 40 watt .	Each	22.00	4587.00	100914.00
104	5.14.4	Supplying and fixing 90 watt LED type street light with die cast aluminium housing for ingress protection of IP66 and complete with all accessories etc, on pole/building including connection with FR PVC insulated copper conductor cable and earthing the body etc. as required.	Each	8.00	5516.00	44128.00
105	8.5	Supplying and fixing of 32 mm dia X 1.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV/ HPSV/ CFL street light fitting on pole including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.	Each	8.00	1038.00	8304.00

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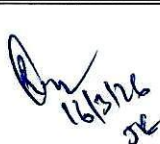

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106	8.15	Supply and installation of regular/standard model A.C. ceiling fan of 1200 mm sweep including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.	Each	49.00	2482.00	121618.00
107	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate/ switch box including connections but excluding modular plate etc.as required.	Each	49.00	358.00	17542.00
108	8.18.3	Supply and installation of 250 mm, 230 v A.C. exhaust fan in the existing opening including making good the damage, connection testing, commissioning etc as required.	Each	6.00	2288.00	13728.00
	2.4	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections etc. as required.				
109	2.4.3	160 Amp, 36 KA	Each	3.00	13698.00	41094.00
110	2.4.18	500 Amp, 35 KA	Each	1.00	27209.00	27209.00
	2.7	Providing and fixing following capacity four pole ONload/ panel mounted changeover switches inside the existing cubical panel board including drilling holes in cubicle panel, making connections etc. as required.				
111	2.7.6	200 Amp, four pole	Each	1.00	18271.00	18271.00
112	3.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2.00	13721.00	27442.00
113		SITC of OPR Early steamer emission (ESE) lighting protection along with Accessories . Make ABB/ Hakel/ LPL etc all complete as required	each	1.00	159457.00	159457.00
114		SITC of mounting mast to hold early steamer emission OPR 45 of robust design with guy wire & base plate along with Accessories . Make ABB/ Hakel/ LPL etc all complete as required	each	1.00	24734.00	24734.00
115		Supply & instalation of 25 x 3 mm copper down conductor with all Accessory Make ABB/ Hakel/ LPL etc all complete as required	mtr	55.00	1392.00	76560.00
116		SITC test clamp manufactured from high quality alloy of copper for excellent corrosion resistance Make ABB/ Hakel/ LPL etc all complete as required	mtr	2.00	6344.00	12688.00
117	3.21	providing chemical /miniral maintenance free earthing system with copper coted earth electrode 3m length etc all complete as required	per set	2.00	16675.00	33350.00
118	2.1	Providing and fixing following capacity double pole/ TP&N sheet metal switch disconnector fuse unit in the existing metal panel board with rewirable type fuses including drilling holes in metal panel, making connections etc. as required.	each	1.00	6482.00	6482.00
	2.1.5	63 Amp, TP&N				
	7.7.7 miscellaneous	Supplying of following size& core PVC XLPE insulated Sheathered unmounted electrical cable with aluminium conductor for working voltage upto 1.1 kv as required				
119		25 sq. mm 3.5 core	mtr.	35.00	346.00	12110.00
120	3.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing etc. as required.	mrt	70.00	144.00	10080.00
		ELECTRICAL			B	₹ 14,63,213.80
	18.07	Providing and fixing Chlorinated Polyvinyl Chloride(CPVC) pipes,having thermal stability for hot & cold water supply,				
121	18.7.1	15mm nominal outer dia pipe	Metre	75.00	225.70	16927.50
122	18.7.2	20mm nominal outer dia pipe	Metre	56.00	295.40	16542.40
123	18.7.3	25mm nominal outer dia pipe	Metre	75.00	384.10	28807.50
124	18.7.4	32mm nominal outer dia pipe	Metre	84.00	472.10	39656.40
125	18.7.5	40mm nominal outer dia pipe	Metre	42.00	592.30	24876.60
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing.				
126	18.8.1	15mm nominal outer dia Pipes	Metre	85.00	372.70	31679.50
127	18.8.2	20mm nominal outer dia Pipes	Metre	50.00	449.80	22490.00
	18.16	Providing and fixing brass stop cock of approved quality (screwed end).				
128	18.16.1	15mm nominal bore	Each	16.00	323.10	5169.60
129	18.16.2	20mm nominal bore	Each	14.00	344.40	4821.60
	18.17	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
130	18.17.1	25mm nominal bore	Each	14.00	566.00	7924.00
131	18.17.2	32mm nominal bore	Each	16.00	627.00	10032.00
132	18.17.3	40mm nominal bore	Each	11.00	752.10	8273.10
	18.19	Providing and fixing gun metal non-return valve of approved quality (screwed end)				
		32mm nominal bore				
133	18.19.2.1	Horizontal	Each	20.00	720.40	14408.00
	18.21	Providing and fixing uplasticsied PVC connectionpipe with brass ions				
		45 cm length				
134	18.21.2.1	15 mm nominal bore	Each	45.00	94.50	4252.50
135	18.49.1	Providing and fixing C.P. brass,bib cock of approved quality conforming to IS : 8931	Each	10.00	461.70	4617.00
	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing notless than 810 gms.				

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136	18.50.1	15 mm nominal bore	Each	10.00	760.30	7603.00
	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
137	18.51.1	15 mm nominal bore	Each	8.00	753.30	6026.40
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved mark conforming to IS:8931				
138	18.52.1	15mm nominal bore	Each	12.00	632.40	7588.80
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and gyser points of approved quality conforming to IS: 8931				
139	18.53.1	15mm nominal bore	Each	15.00	532.00	7980.00
	18.65	Providing and fixing PTMT Soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	0.00		
	18.76	Cutting holes up to 30 x 30 cm in walls including making good the same:				
140	18.76.1	With common burnt clay F.P.S. (non modular) bricks	Each	20.00	241.20	4824.00
141	18.77	Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.	Each	10.00	309.30	3093.00
142	18.79	Making holes up to 20 x 20 cm and embedding pipes upto 150 mm in diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including disposal of malba.	Each	10.00	142.10	1421.00
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
143	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	3.00	2847.70	8543.10
144	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	Each	2.00	1595.00	3190.00
	17.28	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C waste fittings complete.				
		Flexible pipe				
145	17.28.2.2	40 mm dia	Each	12.00	111.00	1332.00
146	17.31	Providing and fixing 600 x 450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	5.00	1267.80	6339.00
147	17.33	Providing and fixing 600 x 120 x 5 mm glass shelf with edges rounded off supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc. complete	Each	5.00	862.50	4312.50
	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
148	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm an effective height of 88 mm, weighthan 190 gms	Each	5.00	518.80	2594.00
	12.78	Providing and fixing on wall face unplasticised PVC (working pressure 4 kg per sqcm) rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.				
149	12.78.2	110mm diameter	Metre	100.00	302.60	30260.00
	12.79	Providing and fixing on wall face unplasticised PVC moulded fittings / accessories for unplasticised-PVC rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.				
		Single pushfit Coupler:				
150	12.79.2.2	110mm	Each	24.00	117.60	2822.40
		Single tee with door				
151	12.79.3.2	110x110x110mm	Each	16.00	205.70	3291.20
		Single tee without door				
152	12.79.4.2	110x110x110mm	Each	10.00	202.80	2028.00
		Bend				
153	12.79.5.2	110mm bend	Each	28.00	140.40	3931.20
		Shoe plain				
154	12.79.6.2	110mm Shoe	Each	20.00	123.30	2466.00
	12.80	Providing and fixing unplasticised-PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S screws or required length including cutting brick work and fixing on cement mortar (1:4) 1 cement:4 coarse sand and making good the wall etc. complete.				
155	12.80.2	110mm	Each	101.59	256.90	26097.19
156	12.81	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	8.00	51.00	408.00
	17.1	Providing and fixing water closet squatting pan (Indian type W.C pan) with 100mm sand cast iron P or S trap, 10 litre low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.				
157	17.1.1	White Vitreous china Orissa Pattern W.C pan of size 580x440mm with integral type foot rests.	Each	3.00	5529.90	16589.70

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	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C pan) with seat and lid, 10 litre low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.				
158	17.2.1	W.C pan with ISI marked white solid plastic seat and lid.	Each	2.00	5273.90	10547.80
	17.10	Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S 13983 with C.I brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required.				
		Kitchen sink with drain board				
159	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	1.00	5991.00	5991.00
160	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality colour and make, weighing not less than 105gms.	Each	10.00	155.50	1555.00
	17.5.	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass lush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS :2556, C.I trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
161	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Each	2.00	8873.10	17746.20
162	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality, colour and make weighing not less than 90 gms.	Each	10.00	217.70	2177.00
WATER SUPPLY AND SANITARY INSTALLATIONS					C	₹ 4,31,235.19
	19.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.				
163	19.1.2	150 mm diameter	Metre	25.00	464.30	11607.50
	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around S.W. pipes including bed concrete as per standard design.				
164	19.2.2	150mm diameter S.W. pipe	Metre	25.00	494.40	12360.00
	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.4.3.1	180x150 mm size P type				
165		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00	1994.10	1994.10
	19.30.1	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design				
166	19.30.1.0	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00	4266.80	4266.80
SEWAGE + DRAINAGE					D	₹ 30,228.40
	24.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 Metre depth below ground level.				
	24.1.1	All types of soil.				
167	24.1.1.1	300 mm dia.	Metre	90.00	486.60	43794.00
	24.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 Metre & upto 150 Metre depth below ground level.				
	24.2.1	All types of soil.				
168	24.2.1.1	300 mm dia.	Metre	10.00	567.90	5679.00
169	24.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	Cum	5.30	1343.20	7117.28

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	24.10 24.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc, all complete, for all depths, as per direction of Engineer-in-charge.				
170	24.10.2	(a) 150 mm nominal size dia	Metre	100.00	660.10	66010.00
	24.11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed /plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.				
171	24.11.3	200 mm nominal size dia.	Metre	30.00	1206.90	36207.00
172	24.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	Hour	24.00	916.80	22003.20
173	18.48.A	Providing and Fixing high density polyethylene storage loft tank with cover conforming IS 12701 color opaque as approved by eic	per litre	1000.00	9.70	9700.00
		TUBEWELL			E	₹ 1,90,510.48
		Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required				
174	27.8.6	80 mm dia	meter	5	1082	5410.00
175	27.8.7	100 mm dia	meter	32	1445	46240.00
		Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required				
176	27.9.2	Single headed Stainless steel	Each	4	5722	22888.00
		Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required				
177	27.11.5	100 mm dia	Set	3	6056	18168.00
		Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required :				
178	27.12.5	100 mm dia	Set	1	14109	14109.00
179	27.13	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm ² complete as required.	Each	4	1236	4944.00
		Providing, installation, testing and commissioning of non-return valve of following sizes conforming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required				
180	27.14.5	100 mm dia	Set	1	10478	10478.00
		Providing, installation, testing and commissioning of stainless steel Ystrainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.				
181	27.15.2	100 mm dia	Each	2	6048	12096.00
		Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required				
182	27.16.2	Stainless steel (Grade 304)	Set	4	4445	17780.00
		Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall.				
		Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket				
183	27.17.2	40 m	set	4	9616	38464.00






		Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required				
184	27.18.2	Stainless steel (Grade 304)	Each	4	1631	6524.00
		Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS904 as required :				
185	27.19.1	2 way-100 mm dia M.S. Pipe	Set	2	6331	12662.00
186	27.20	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	Set	1	17707	17707.00
187	27.22	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	Each	1	1442	1442.00
FIRE FIGHTING					F	₹ 2,28,912.00
TOTAL BOQ VALUE (A+B+C+D+E+F+Board) IN RUPEES						₹ 2,36,94,645.28
SAY						23694646.00


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 कार्यपालक अभियंता
 स्था.क्षेत्र अभि. संगठन
 कार्य प्रमंडल-02, पुपरी, सीतामढ़ी

All rate of BOB from item (1) to (187) has been approved by me.


 17/03/26
 अधीक्षण अभियंता
 योजना एवं विकास
 स्थानीय क्षेत्र अभियंत्रण
 तिरहुत प्रमंडल, मुजफ्फरपुर


Bill of Quantity Approved for ₹ 2,36,94,646.00

(Rupees Two crore thirty six lac ninety four thousand six hundred forty six rupees only. of item no 01 to item no 187 and Entered in Register No-01 B.O.B on SL No 36 on page No 41)

sd/-
A.E.

E.E.

sd/-
 Chief Engineer
 LAEO, P&D Dept.
 Bihar, Patna
 Certified copy


 30-03-26
 सहायक अभियंता
 मुख्य अभियंता कार्यालय
 स्थानीय क्षेत्र अभियंत्रण संगठन
 पटना


 30/3/26
 Chief Engineer
 LAEO, P&D Dept.
 Bihar, Patna