

**DETAILED ESTIMATE FOR THE PROPOSED CONSTRUCTION OF
100 M.T. GODOWN
AT ADHIDEI, BLOCK-KALAN, DISTRICT SHAHJAHANPUR (U.P.)**

SUMMARY OF COST

S.N.	DESCRIPTION OF ITEM			AMOUNT (Lacs.)
1	COST FOR CIVIL WORK			32.38
2	COST OF INTERNAL W/S SEWERAGE & SEPTIC TANK & SOAK PIT			2.16
3	COST FOR ELECTRIFICATION			1.56
4	COST FOR FARMER'S WAITING AREA			1.10
5	COST FOR SUBMERSIBLE PUMP WITH BORING			1.60
6	COST FOR FIRE FIGHTING			0.58
			TOTAL	39.38
	LESS 5.0 % DUE TO WORK DONE BY DEPARTMENT		(-)	1.97
			NET BOQ COST	37.41

(विकास वर्मा)
लेखा प्रभारी
यू० पी० आर० एन० एस० एस०
निर्माण प्रखण्ड, शाहजहाँपुर

(अंकित वर्मा)
अवर अभियन्ता
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(स्वप्निल तिवारी)
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(उमेश चन्द्र दुबे)
अधिशोषी अभियन्ता
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**DETAILED ESTIMATE FOR THE PROPOSED CONSTRUCTION OF
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BILL OF QUANTITIES FOR CIVIL WORK OF 100 MT GODOWN

Rate as per D.S.R. 2023 (For without GST & Cess DSR rates = Rate x 0.735 x 106/107)

S.no	Description Of Item	Ref.	Unit	Total Qty	Rate as per DSR/ NS (Rs.)	Applicable Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-In-charge. All kinds of soil	2.8.1	Cum	84.62	260.30	189.53	16038.03
2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	2.25,a	Cum	187.65	700.50	510.06	95714.80
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.27	Cum	23.29	2123.75	1546.37	36014.96
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	4.1.8	Cum	37.90	6812.00	4960.03	187985.14
5	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 :With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	2.35.3	sqm	181.86	310.05	225.76	41056.42
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth In: Cement mortar 1:4 (1 cement : 4 coarse sand)	6.1.1	Cum	56.87	7370.65	5366.80	305209.92
7	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	4.10	sqm	18.66	410.85	299.15	5582.14

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	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	4.13	SQM	18.66	146.15	106.42	1985.80
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	6.4.1	Cum	71.95	9344.35	6803.91	489510.71
9	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand)	6.13.2	Sqm	40.27	1123.80	818.27	32950.91
10	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)						
(a)	Footing	5.1.2	Cum	0.43	9045.75	6586.49	2832.19
(b)	Same as item No-11 but for Lintel	5.3	Cum	6.81	11505.50	8377.51	57050.84
11	Same as item No-11 but for column	5.2.2	Cum	0.37	10852.95	7902.37	2923.88
12	Same as item No-11 but for lighter beam	5.3	Cum	3.02	11505.50	8377.51	25300.08
13	Same as item No-10 but for slab	5.3	Cum	23.30	11505.50	8377.51	195156.19
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	5.22.6 & 5.22A.6	Qtl.	32.85	10785.00	7852.89	257955.82
15	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	13.4.2	sqm	374.33	343.65	250.22	93664.85
16	15 mm cement plaster on rough side of single or half brick wall of mix 1:6 (1 cement: 6 coarse sand)	13.5.2	sqm	416.90	395.35	287.87	120013.00
17	Making grooves 10 to 12mm wide x 8mm deep in plaster of the wall or in ceiling vertically or horizontally as required.	13.76	Rm	108.63	100.60	73.25	7957.15
18	Add for plaster drip course in plastered surface or moulding to R.C.C. projections.	5.30	Rm	19.29	78.40	57.09	1101.27
19	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	11.3.1	sqm	99.14	614.20	447.22	44338.72

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	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. 18 mm thick	11.6.1	sqm	14.08	662.05	482.06	6788.01
21	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, .hardening compound mixed @ 2 litre per 50kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete	11.4	sqm	103.40	978.45	712.44	73668.08
22	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	11.41.2	SQM	23.2005	1553.45	1131.11	26242.32
23	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) 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 Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	11.37A	sqm	66.14	1112.70	810.19	53589.21
24	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) including Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.47.1+ 13.80	sqm	374.33	327.15	238.21	89169.15
25	Distemping with oil bound washable distemper of approved brand and manufacturer in desired shade to give an even shade complete on new work (two +one more coats) over and including priming coat.	13.41.1	sqm	562.30	185.65	135.18	76011.71
26	Fabrication of M.S. Tubular door chaukhat.	10.15.1	kg	138.87	195.20	142.13	19737.59

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27	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 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:						
a.	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	9.21.1	sqm	7.99	2392.65	1742.16	13919.86
28	S/F Z- section window	10.11.1	kg	662.18	131.05	95.42	63185.22
29	M.S. grill for window	9.48.1	kg	441.45	219.10	159.53	70424.52
30	Providing & fixing mosquito proof heavy quality iron wire gauge of expanded metal heavy quality over windows.	9.51.2	sqm	22.07	939.20	683.86	15094.50
31	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	13.48.3	sqm	84.81	170.70	124.29	10541.03
32	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	13.48.2	sqm	15.98	176.25	128.33	2050.71
33	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix						

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	b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs '1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.						
	e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120mm and minimum thickness at khurra as 65 mm	22.7.1	Sqm	41.77	1684.60	1226.61	51229.92
34	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/ sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured.	22.6	Sqm	116.81	688.90	501.61	58595.37
35	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with 4.0 mm thick glass panes	10.30.1	Sqm	22.07	1064.65	775.20	17110.60
36	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick	11.13.1	Rm	405.09	91.75	66.81	27064.13
37	Providing alluminium sliding bolt anodised transparent or dyed to requered colour & shed with necessary screw etc. 250x16 mm	9.96.2	Nos	4.00	260.60	189.75	759.00

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38	Providing alluminium tower bolt anodised transparent or dyed to requered colour & shed with necessary screw etc. 250x10 mm	9.97.2	Nos	4.00	115.15	83.84	335.36
39	Providing & fixing alluminium handle. 125MM	9.100.1	Nos	8.00	66.25	48.24	385.92
40	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover	10.6.1	sqm	14.54	3653.20	2660.01	38663.25
41	Providing and fixing ball bearing for rollong shutters .	10.7	Nos	6.00	492.35	358.50	2151.00
42	Steel work in built up tublar trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, elded and bolted including special shapped washers etc. complete: Electric resistance or induction butt welded tubes.	10.16.3	KG	207.17	194.40	141.55	29325.48
43	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required..	12.50	SQM	15.66	738.65	537.83	8423.39
44	C.C. Interlocking	[A.R.]	sqm	147.20	1290.76	1290.76	189999.55
45	Centering and shuttering including strutting, propping, etc. and removal of form for :						
	(a) Suspended floors, roofs, landings, balconies and access platform	5.9.3	SQM	183.52	927.25	675.16	123907.29

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(b) Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landings, beams and balconies (Plan area to be measured) Height of slab (5.6-3.5)=2.1 Say 3 times	5.11.1 x 3	SQM	116.97	1152.90	839.46	98189.12
(c) Lintels, beams, plinth beams, girders, bressumers and cantilevers	5.9.5	SQM	86.99	736.40	536.20	46643.66
(d) Foundations, footings, bases of columns, etc. for mass concrete	5.9.1	SQM	2.22	392.15	285.54	633.90
(e) Columns, Pillars, Piers, Abutments, Posts and Struts	5.9.6	SQM	4.92	961.30	699.95	3443.75
					TOTAL	3237625.40
					Say In Lacs	32.38

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अधिसापी अभियन्ता
यू० पी० आर० एन० एस० एस०
निर्माण प्रखण्ड-शाहजहाँपुर

ANALYSIS OF RATES FOR P/L OF C.C. INTERLOCKING									
[ANALYSIS FOR FOR 4.0 MT. WIDE AND 10.0 RM LENGTH = 40.00 SQM]									
S.NO	DESCRIPTION OF ITEM	NO.	L	B	H	QTY	UNIT	RATE	AMOUNT
1	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curling complete, including cost of form- work, in foundation and floors.								
	(DSR 4.1.8*0.735*106/107)	1	10.00	4.00	0.10	4.00			
					TOTAL	4.00	CUM	4960.03	19840.12
2	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50 mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.								
	80 mm thick C.C. paver block of M-35 grade with approved colour design and pattern.	1	10.00	4.00		40.00	SQM	794.75	31790.19
	(DSR 16.91.2*0.735*106/107)								
								G. TOTAL	51630.31
								COST PER SQM	1290.76

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SCHEDULE OF QUANTITIES FOR PLUMBING WORKS

PROJECT : PROPOSED 100MT GODOWN

PART A (SCHEDULED ITEMS AS PER D.S.R. - 2023)

SNo	DESCRIPTION	D.S.R. No.	QTY	UNIT	RATE (Rs.)	AMOUNT
						*0.735*106/107
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 fitting and fixtures completed including cutting and making good the walls and floors wherever required. White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests	17.1.1	1	Nos	4,927.55	4,927.55
2	Providing & fixing white vitreous china 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 fitting and brackets, cutting & making good the walls wherever required. Flat back Wash Basin size 550X400 mm with single 15mm C. P. brass pillar tap	17.7.4	1	Nos	1,368.30	1,368.30
3	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete. 32 mm dia (for wash basin)	17.28.2.1	1	Nos	87.05	87.05
4	Providing & Fixing 600 X 450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	17.31	1	Nos	1,170.80	1,170.80
5	Providing & fixing pipes. 100mm dia PVC Pipe 6 Kg Pressure 75mm dia PVC Pipe	M.R.	25 15	Rm Rm	750.00 650.00	18,750.00 9,750.00
6	Providing & fixing PVC trap of self cleaning screwed down or hinged grating with or without vent arm complete, including cost of cutting & making good the walls and floors. 100 mm inlet & 75 mm outlet	M.R.	1	Nos	2,500.00	2,500.00
7	Providing & fixing PVC collar 100 mm dia 75 mm dia	M.R.	1 1	Nos Nos	650.00 550.00	650.00 550.00
8	Supply and fixing of UPVC S.W.R. door bend conforming to IS-14735 100 mm dia	M.R.	2	Nos	850.00	1,700.00
9	Supply and fixing of UPVC S.W.R. Plain bend conforming to IS-14735 100 mm dia	M.R.	2	Nos	970.00	1,940.00
10	Providing and fixing to the inlet mouth of rain water pipe grating 15 cm diameter	M.R.	2	Nos	350.00	700.00
11	Supply and fixing of UPVC S.W.R. Plain Tee conforming to IS-14735 150 mm dia bend (43 kg)	M.R.	2	Nos	3,500.00	7,000.00
12	Supply and fixing of UPVC S.W.R. Cowel conforming to IS-14735 90 mm size 110 mm size	M.R.	2 2	Nos Nos	75.00 90.00	150.00 180.00
13	Supply and fixing of UPVC S.W.R. Nahni trap size 100/75mm, 100/90mm conforming to IS - 14735 self cleannig design fixed in PCC 1:2:4 and supply and fixing of 125mm dia heavy duty CP brass jali.	M.R.	1	Nos	900.00	900.00

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No	DESCRIPTION	D.S.R. No.	QTY	UNIT	RATE (Rs.)	AMOUNT
13	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.					
	Concealed work including cutting chases and making good the walls etc.					
	15mm dia nominal bore	18.8.1	25	Rm	497.80	362.46
	20mm dia nominal bore	18.8.2	27	Rm	537.60	391.44
14	Providing and fixing ball valve (brass) of approved quality complete. (High or low pressure with plastic floats).					
	15 mm nominal bore	18.18.1	1	Nos	406.85	296.24
15	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.	18.21.2.1	2	Nos	97.75	71.17
16	Providing & fixing 15 mm nominal bore CP brass bib cock of approved quality conforming to IS 8931.	18.49.1	2	Nos.	506.80	369.02
17	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 a) 15 mm nominal bore.	18.53.1	2	Nos.	574.30	418.17
17	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fitting and base support for tank.					
	500 litres capacity	18.48	500	Ltr	11.00	8.01
18	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 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.					
	internal work -Exposed on wall					
	15 mm. dia nominal bore	18.7.1	15	Rm	286.80	208.83
19	Providing and filling sand of grading zone V or coarser grade around pipes in external work.					
	15 mm. Diameter pipe	18.41.1	15	Rm	154.45	112.46
20	Making connection of G.I.distribution branch with G.I.mains of following size by providing and fixing Tee, including cutting and threading the pipe etc. complete.					
	25 to 40 mm. Nominal bore	18.13.1	1	Nos.	911.9	663.98
21	Constructing brick masonry chamber 300 x 300 x 500 mm, inside with F.P.S. brick work in cement mortar 1: 4 (1 cement : 4 coarse sand) for Stop Cock, with C. I. surface box 100 x 100 x 75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand:4 grade stone aggregate 20mm nominal size); necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1 : 3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design					
		18.32.1	1	Nos	1992.6	1450.87

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No	DESCRIPTION	D.S.R. No.	QTY	UNIT	RATE (Rs.)	AMOUNT	
22	Excavating trenches in all kind of soil of required width for pipes. Including excavation for sockets and dressing of sides, ramming of bottoms, including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m.						
	up to 1.50 m depth						
	Pipes 80 mm to 300 mm diameter	2.10.1.2	10	Rm	352.15	256.41	2,564.11
23	Providing, laying of PVC Pipe 6 Kg Pressure with stiff mixture of cement mortar in the proportion of 1:1 (1cement :1 fine sand) including testing of joints etc complete.						
	150 mm diameter	M.R.	10	Rm	850		8,500.00
24	Providing and laying cement concrete 1 : 5 : 10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around PVC Pipes including bed concrete as per standard design.						
	150 mm diameter	19.2.2	10	Rm	1179.85	859.09	8,590.85
25	Constructing brick masonry manhole with F.P.S. bricks in cement mortar 1 : 4 (1 cement : 4 coarse sand) RCC top slab with 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20mm nominal size); foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1cement 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finishd with a floating coat of neat cement complete as per standard design						
	Inside size 90 x 80 cm & 45 cm deep including CI cover with frame (light duty) 455 x 610mm internal dimension total wt. of cover & frame to be not less than 38 kg (wt. of cover 23 kg and wt. of frame 15 kg)	19.7.1.1	2	Nos	12770.55	9298.63	18,597.26
26	Making connection of sewer/drain line with existing manhole including breaking into & making good the wall, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1 : 3 (1cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete						
	For pipes 100 to 230 mm diameter	19.21.1	1	Nos	810.45	590.11	590.11
27	Providing and fixing square mouth S. W. Gully trap grade 'A' complete with C.I. grating brick masonry chamber with F.P.S bricks and water tight CI cover with frame of 300 x 300 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						
	180 x 150 mm. size P type	19.4.3.1	2	Nos	2802.1	2040.30	4,080.59
28	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion . (i) Single socketed pipes.						
	a) 110mm diameter	12.41.2	8.2	RM	377.4	274.80	2,253.33

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No	DESCRIPTION	D.S.R. No.	QTY	UNIT	RATE (Rs.)	AMOUNT
29	Making khurras 45x45 cm with average minlmum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over PVC sheet 1m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, punning, rounding the edges and making and finishing the outlet complete.					
	a) 110mm diameter	12.22	2	NO	298.25	217.17
30	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
	a) 110mm	12.43.2	4	NO	371.3	270.35
TOTAL						131,598.11
Cost of Septic Tank & Soak Pit						84,261.49
TOTAL						215,859.60
G. TOTAL						215,859.60
SAY IN LACS						2.16

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DETAILED ESTIMATE OF SEPTIC TANK FOR GODOWN
[2300X 1100 X 1300]

S.N	DESCRIPTION	NO.	L	B	H	QTY	UNIT	RATE		AMOUNT
								*0.735*106/107		
1	Earth Work in excavation over areas including disposal of excavated earth lead upto 50 m disposed earth to be levelled and neatly dressed . In all kind of soil upto 1.5 m dept.	1	3 140	1.942	2.050	12.500				
	2.8.1					12.500	cum	260.30	189.53	2369.16
2	Providing and laying in cement concrete 1:4:8 (1 cement : 4 fine sand : 8 graded Stone ballast 40 mm nominal size) and curing complete, including cost of form- work, in foundation.	1	3.140	1.942	0.150	0.910				
	4.20.1					0.910	cum	6812.00	4960.03	4513.62
3	Brick work with brick of class designation 150 in foundation & Plinth in cement mortar (1 cement : 6 coarse sand) septic tank									
	6.1.2	2	2.645	0.345	1.900	3.470				
		2	1.445	0.345	1.900	1.890				
	Baffil wall	1	1.100	0.230	1.100	0.280				
						5.640	cum	7132.25	5193.21	29289.71
4	Reinforced cement concrete work in slab cover for septic tank 1:1.5:3	1	2.760	1.560	0.150	0.650				
	5.3					0.650	cum	11505.50	8377.51	5445.38
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.									
	5.22.6 & 5.22A.6	1	0.650	1.000	0.785	0.510	Qtl	10785.00	7852.89	4004.97
6	40mm thick flooring.	1	2.300	1.100	-	2.530	sqm	614.20	447.22	1131.46
	11.3.1									
7	20 mm thk Plaster with neat cement finish	2	2.300		1.900	8.740				
	11.6.1	2	1.100		1.900	4.180				
		2	1.100		0.900	1.980				
						14.900	sqm	662.05	482.06	7182.68
8	Centering and shuttering including strutting, propping etc. and removal of form for :									
	(a) Suspended floors, roofs, landings, balconies and access platform	1	2.760	1.560		4.310				
	5.9.3					4.310	sqm	927.25	675.16	2909.94
9	Providing M.S. foot rest including fixing with 20 x 20 x 10 cm cement concete block 1:3:6 (1 cement : 3 coarse :6 graded aggregate of nominal size 20 mm) as per standard with 20x20 mm sqm. bar.		(DSR 19.15.1)		7.00	Nos.		544.70	396.61	2776.29
10	Providing & fixing soil, wast and vent pipe.									
	75 mm dia sand cast iron S&S pipe.	DSR-17.35.2.1			2.00	Rmt.		1044.75	760.71	1521.43

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11	Providing & fixing sand cast iron terminal guard 75 mm dia.	D.S.R.17.56.2.1)	2.00	Nos	340.70	248.07	496.15
12	Providing & fixing C.I. tee at the inlet & outlet of septic tank.	D.S.R. - 7087)	1.00	Nos	621.00	452.17	452.17
13	Providing & fixing plane sand cast iron S&S bend of required degree. 75 mm	D.S.R. - 17.38.2.1)	1.00	Nos	501.45	365.12	365.12
14	Providing lead caulked joints to sand cast iron/ centrifugally cast (squn) irons pipes & fitting of dia. 75 mm	D.S.R. - 17.58.2)	1.00	Nos	526.25	383.18	383.18
15	Supply & fixing of medium quality R.C.C. Manhole cover with frame complete.HD.-20-Circular shape ,450 int. dia.	DSR - 19.19.1.3	1.00	Nos	1169.65	851.66	851.66
	M.D.-10- square shape ,450 int. dia.	DSR- 19.19.2.1	1.00	Nos	1386.55	1009.59	1009.59
16	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	D.S.R. - 19.32.1)	1.00	Nos	26861.90	19558.98	19558.98
					TOTAL		84261.49

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**SCHEDULE OF QUANTITIES FOR ELECTRICAL WORKS
DETAILED ESTIMATE FOR THE PROPOSED CONSTRUCTION OF**

**100 M.T. GODOWN
BILL OF QUANTITY**

PART (A): SCHEDULE ITEMS (AS PER E&M -2022)

Sl. No.	SCII. No.	DESCRIPTION	UNIT	QTY	RATE (In Rs)	Bare Rate	AMOUNT (In Rs)
DSR*0.789*106/110							
1		POINT WIRING					
1	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular type switch, modular plate, suitable size G.I. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Point	19	1467.00	1115.37	21192.10
	1.10.3	Group C					
2	1.14	Wiring for circuit/sub-main wiring along with earth wire with the following size of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
	1.14.2	2X2.5 sqmm + 1x 2.5 sqmm earth wire	Metre	80	275.00	209.09	16726.80
	1.14.3	2X4.0 sqmm + 1x 4.0 sqmm earth wire	Metre	60	334.00	253.94	15236.59
	1.14.5	2X10 sqmm + 1x 6.0 sqmm earth wire	Metre	20	570.00	433.38	8667.52
3	1.21	Supply and fixing of following size of PVC conduit alongwith the accessories in recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required:					
	1.21.2	25mm	Metre	55	145.00	110.24	6063.47
4	1.25	Supply and fixing of stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	4	369.00	280.55	1122.22
5	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	13	40.00	30.41	395.36
6	1.27	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.					
	1.27.1	1 or 2 module(75mm X 75 mm)	Each	3	298.00	226.57	679.72
7	1.45	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. Including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	4	339.00	257.74	1030.98
8	1.49	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	Each	17	57.00	43.34	736.74
9	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connections, testing, commissioning etc. as required.					
	1.50.1	upto 450 mm sweep.	Each	13	450.00	342.14	4447.81
10	1.51	Extra for fixing the louvers / shutters complete with frame fro exhaust fans of all sizes.	Each	13	207.00	157.38	2045.99

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11	1.57	Supply and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, 'C' curve including connections, painting etc. as required.	Each	10	727.00	552.74	5527.45
12	14.15(rate taken from DSR-Civil-2023-10.18)	Providing and fixing circular/Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/M.S. sheet box by means of 3.3 mm dia round headed screwed, one loc at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	Each	4	220.65	162.18	648.71
13	19.1	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS: 374-2019), THD less than 10% remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise= 75 degree C(max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	4	2730.00	2075.64	8302.58
DISTRIBUTION BOARDS, MCB'S & ISOLATORS :							
14	2.4	Supplying and fixing following way, Horizontal type three pole and neutral MCB distribution board, 415 volts on surface /recess complete with , tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolators).					
	2.4.2	6 way (4 + 18), Double door	Each	2	4974.00	3781.78	7563.55
15	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	2.10.1	Single Pole	Each	8	256.00	194.64	1557.11
16	2.11	Supplying and fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	5	13.00	9.88	49.42
17	2.24	Supplying and fixing cable end box (Loose Wire Box) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/recess, complete with testing and commissioning etc. As required.					
	2.24.1	For 4 way, Double Door TPNMCBDB	Each	1	1080.00	821.13	821.13
	2.24.2	For 6 way, Double Door TPNMCBDB	Each	1	1124.00	854.59	854.59
18	5.4	Earthing with GI earth pipe, 600 mm X 600 mm X 6 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc, with charcoal/cock and salt as required.	Set	2	7472.00	5681.03	11362.06
19	5.9	Supplying and Laying of 25 mm X 3 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection / terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Meter	40	144.00	109.48	4379.38

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5.7		Supplying and Laying of 6 SWG G.I wire at 0.50 metre below ground level for conductor earth electrode, including connection / terminating with G.I. thimble etc. as required.	Meter	20	51.00	30.70	775.52
		TOTAL (SCHEDULED ITEMS-DSR E & M-2022)					120186.79
		PART B - NON - SCHEDULED ITEMS (AS PER MARKET RATES)					
		CABLES					
21	MR	Supply of following size of 1.1 KV grade multicore aluminum conductor PVC sheathed armoured cable as per IS 1554. Make-Polycab or Eq					
		10 sqmm 2 core	Metre	25	310.00	-	7750.00
		SUPPLY OF LIGHT FIXTURES :					
22	MR	Supply & Fixing of 12 W LED BULB complete in all respect. Make-Philips or Eq	Each	6	150.00	-	900.00
23	MR	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc.Complete in all respect. CAT. - AAA	Each	8	1650.00	-	13200.00
24	MR	Supply of AC 230/250 Volts, 50 Hz 55w 1400 rpm exhaust fans including providing nuts, bolts, mounting frame and other accessories including connections etc. complete as required. Make: Havells-STANDARD -Refresh Air-SPS	Each	1	2250.00	-	2250.00
		300 mm sweep 900 rpm	Each	2	6000.00	-	12000.00
		600 mm sweep 900 rpm					
		TOTAL NON SCHEDULED ITMES					36100.00
		COST SUMMARY (ELECTRICAL WORKS)					
		TOTAL (SCHEDULED ITEMS- DSR-2022)					120186.79
		TOTAL (NON-SCHEDULED ITEMS)					36100.00
		TOTAL (SCHEDULED + NON-SCHEDULED ITEMS)					156286.79
		SAY					156287.00
		SAY IN LACS					1.56

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BOQ FOR FORMER'S WAITING

Rate as per D.S.R. 2023 (For without GST & Cess DSR rates = Rate x 0.735 x 106/107)

S.no	DESCRIPTION OF WORK	SCH. NO.	UNIT	QTY	Rate as per DSR/ NS (Rs.)	Applicable Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	2.8.1	Cum	4.60	260.30	189.53	871.03
2	Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including lead up to 50m and lift upto 1.5m and including cost of sand.	2.27	Cum	0.35	2123.75	1546.37	536.37
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete,including cost of form- work,in foundation and floors.	4.1.8	Cum	1.71	6812.00	4960.03	8464.68
4	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : 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 :With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	2.35.3	sqm	4.41	310.05	225.76	995.59
5	Class 150 brick work in 1:6 Cement and coarse sand in FM 2.25 mortar in foundation and plinth including supply of all materials, labour and T & P etc. required for proper completion of the work as per direction of E/I.	6.1.2	Cum	2.31	7132.25	5193.21	12015.13
6	Providing and laying damp-proof course 40 mm thick with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size).	4.10	SQM	0.48	410.85	299.15	144.49

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6a	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	4.13	SQM	0.48	146.15	106.42	51.40
7	Same as in item No. 6 above but in super-structure above plinth level up to floor two level (up to two storeys) including necessary cutting and moulding of brick work as required and also including honeycombed brick work in thickness of wall more than 12cms. (1:6 cement : coarse sand).	6.4.2	Cum	0.43	9105.95	6630.32	2882.20
8	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size) (R.C.C. COLUMNS)	5.2.2	Cum	0.02	8536.00	6215.32	98.64
9	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 ° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size). (R.C.C. BEAMS)	5.3	Cum	0.31	11505.50	8377.51	2635.90
10	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 ° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size). (R.C.C. SLAB)	5.3	Cum	0.25	11505.50	8377.51	2111.13

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11	Mild steel or iron in plan work such as reinforced concrete or reinforced brick (when not included in over all rates) brought to require shape as necessary and also including being for proper completion of work and including supply of all steel and wastage & over lapping & hooks.	5.22.6	Qtl.	0.73	10785.00	7852.89	5726.16
12	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. (1)1 cement : 6 coarse sand. F.M. 2.25	13.4.2	sqm	5.03	343.65	250.22	1258.87
13	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	11.3.1	sqm	5.68	614.20	447.22	2538.41
14	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. 18 mm thick	11.6.1	sqm	2.52	662.05	482.06	1214.79
15	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	11.41.2	sqm	3.93	1553.45	1131.11	4441.89
16	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. Area of slab upto 0.50 sqm [Granite]	8.2.2.1	sqm	2.52	5413.50	3941.74	9933.18

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17	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	13.47.1	sqm	5.03	171.10	124.58	626.78
18	Distemping with oil bound washable distemper of approved brand and manufacturer in desired shade to give an even shade complete on new work (two +one more coats) over and including priming coat.	13.41.1	sqm	7.55	185.65	135.18	1020.73
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand & anufacturer, over the plastered wall surface to prepare the surface even & smooth complete.	13.80	sqm	7.55	156.05	113.62	857.98
20	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	13.48.3	sqm	2.65	170.70	124.29	328.88
21	Steel work in built up tublar trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, elded and bolted including special shapped washers etc. complete: Electric resistance or induction butt welded tubes.	10.16.3	KG	177.02	194.40	141.55	25056.58
22	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required..	12.50	SQM	5.38	738.65	537.83	2891.39

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23	Centering and shuttering including strutting, propping etc. and removal of form for :						
	(a) Suspended floors, roofs, landings, balconies and access platform	5.9.3	SQM	2.52	927.25	675.16	1701.40
	(b) Lintels, beams, plinth beams, girders, bressumers and cantilevers	5.9.5	SQM	3.37	736.40	536.20	1804.83
	(d) Columns, Pillars, Piers, Abutments, Posts and Struts	5.9.6	SQM	0.28	961.30	699.95	193.19
						TOTAL	90401.62
							20027.77
24	COST OF ELECTRICAL WORK						
						G.TOTAL	110429.39
						IN LACS	1.10

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निर्माण प्रखण्ड-शाहजहाँपुर

BILL OF QUANTITY

INTERNAL ELECTRIFICATION WORK

AS PER CPWD DSR 2022

Sl. No	Code/ No.	Sch. Ref.	Description of Items	Total Qty.	Unit	DSR Rate(A)	Rate(B)	APPLICABLE RATE	Amount In Rs.
	A.		DSR Items			DSR 2022	A*0.789	B*106/110	
			Point Wiring :						
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable etc. as required						
	1.10.1		Kanoup C	Point	3	1467.00	1157.46	1115.37	3346.12
2	1.12	DSR	Wiring for light/ power plug with 2x4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required	Point	1	334.00	263.53	253.94	253.94
3	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required						
	1.14.2		2 x 2.5 sq. mm + 1 x 2.5 sq. mm earth wire	Mtr.	20	275.00	216.98	209.09	4181.70
	1.14.3		2 x 4 sq. mm + 1 x 4 sq. mm earth wire	Mtr.	15	334.00	263.53	253.94	3809.15
4	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required						
	1.24.1		5/6 A switch	Each	1	103.00	81.27	78.31	78.31
	1.24.4		3 pin 5/6 A socket outlet	Each	1	122.00	96.26	92.76	92.76

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(अमित कुमार)
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(स्वप्निल तिवारी)
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5	1.25	DSR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	1	369.00	291.14	280.55	280.55
6	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	2	40.00	31.56	30.41	60.82
7	1.27	DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.						
	1.27.1		1 or 2 Module (75mmX75mm)	Each	1	298.00	235.12	226.57	226.57
8	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	1	477.00	376.35	362.67	362.67
9	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	4	13.00	10.26	9.88	39.54
10	1016	SOR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. CAT A	Each	1			1780.00	1780.00
11	19.1	DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	1	2730.00	2153.97	2075.64	2075.64
12		M.R.	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc. Complete in all respect. CAT. - AAA	Each	2			1650.00	3300.00

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निर्माण प्रखण्ड, शाहजहाँपुर

(अंकित वमा)

अकर अभियन्ता

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निर्माण प्रखण्ड-शाहजहाँपुर

(स्वजित तिवारी)

सहायक अभियन्ता

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निर्माण प्रखण्ड-शाहजहाँपुर

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अधिसारी अभियन्ता

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निर्माण प्रखण्ड-शाहजहाँपुर

BORING & SUBMERSIBLE PUMP OF CAPACITY 2.0 H.P.

S.No	DESCRIPTION	SCH. NO.	QTY.	UNIT	DSR	DSR without GST	AMOUNT
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. 300 mm dia	23.1.1.1	70.00	RM	707.75	515.33	36073.10
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (C/M) 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. 150 mm nominal size dia	23.3.2	50.00	RM	793.25	577.59	28879.50
3	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 150 mm nominal size dia	23.4.2	20.00	RM	807.45	587.93	11758.60
4	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	23.7	3.25	CuM	1538.25	1120.05	3640.16
5	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 tube well, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge..	23.12	18.00	Hrs.	1085.05	790.06	14221.08

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6	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of: 150 mm dia	23.13.2	1.00	No	246.45	179.45	179.45
7	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part I), including necessary bolts & nuts of required size complete. 150 mm dia	23.14.2	1.00	No	2019.05	1470.13	1470.13
8	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tube well as per IS:2800 (part I). 150 mm dia	23.15.2	1.00	No	322.00	234.46	234.46
9	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 65 mm dia nominal bore	18.12.7	35.00	RM	896.07	652.46	22836.10
10	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. 6 x 4 sq. mm	DSR E&M 1.17.24* 0.789 *106/110					
11	Pumping Set KSB make submersible pump set suitable for installation in bore well of min 110 mm inner dia preferably more and having under noted specifications. (2 H.P.)	P.C.R.	1.00	Each		20000.00	20000.00
					Say	1.60	Lac.
					Total	160368.18	

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SCHEDULE OF QUANTITIES FOR FIRE FIGHTING SYSTEM (INTERNAL)					
S.N.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
PART-I					
2	Supply & fixing of fire extinguisher, ABC Type 6.00 kg. capacity (ISI Marked IS:15683 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	2	Each	9100.00	18200.00
3	Supply & fixing of CO2 type fire extinguisher, 6.5 kg. capacity (ISI Marked IS:2878 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	2	Each	19900.00	39800.00
TOTAL				Rs	58000.00
SAY					58000.00

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