CONSTRUCTION OF 1670 MT CAPACITY FCI GODOWN AT AALO.A.P STATE

(Based on CPWD,Schedule of rates 2016 Delhi)

BOQ FOR SENTRY ROOM **ANNEXURE V**

SL. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE(Rs)	Amount (Rs.)	DSR2016 NO
1	2	3	4	5	6	7
2(iii)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
1	Earth work in experience by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. i) All kinds of soil.	7.56	cum	166.40	1,257.98	2.8.1
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in wateriing, lead upto to 50m and lift upto 1.5m	7.56	cum	125.75	950.67	2.25
3	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	0.65	cum	917.75	596.54	2.27
4	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 leveland removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	15.00	sqm	7.20	108.00	2.31
5	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	1.71	cum	4,478.15	7,657.64	4.1.8
6	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	2.15	sqm	263.10	565.67	4.10
7	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	2.15	sqm	91.90	197.59	4.13
8	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand	9.00	sqm	450.35	4,053.15	4.17
9	Centring and shuttering including strutting, propping etc. and removal of form for:removal of form for:					
	Suspended floors, roofs, landings, balconies and access platform	12.00	sqm	422.30	5,067.60	5.9.3
10	Shelves	0.46	sqm	422.30	194.26	5.9.4
11	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Above plinth level. Thermo-Mechanically Treated bars.	134.10	Kg	56.60	7,590.06	5.22.6 A
12	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	1.49	cum	7,390.80	11,012.29	5.33A

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1	2	3	4	5	6	7
2(iii)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
13	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	5.12	cum	4,751.65	24,328.45	6.1.2
14	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement: 6 coarse sand)	6.17	cum	5,582.85	34,446.18	6.4.2
15	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc.		sqm	1,949.45		8.2.1.1
16	Providing and fixing ISI marked flush door shutters decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	1.89	sqm	2,488.95	4,704.12	9.20.1
17	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 necessary screws etc. complete : 300x16 mm	1.00	each	212.45	212.45	9.96.1
18	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 : 250x10 mm	2.00	each	88.10	176.20	9.97.2
19	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 : 125 mm	2.00	each	51.10	102.20	9.100.1
17	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel. Tee-sections, joints mitred and welded with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nomminal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applyiing a priming coat of approved steel primer.	25.50	kg	74.05	1,888.28	10.13

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2(iii)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
18	providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K 11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted with 15x3 mm lugs, 10cm long, embedded in cemenet concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming caot of approved steel primer excluding the cost of other fittings except necessary hinges or	144.00	kg	113.60	16,358.40	10.11
19	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 is mixed @ 2 liter 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.	7.10	sqm	555.25	3,942.28	11.4
20	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick.	0.90	sqm	350.05	315.05	11.6.1
21	12mm cement plaster of mix: 1:6 (1 cement : 6fine sand)	29.03	sqm	160.35	4,654.96	13.1.2
22	15mm cement plaster of mix: 1:4 (1 cement : 4 fine sand)	29.03	sqm	200.25	5,813.26	13.2.1
23	White washing with lime to give an even shade New work(three or more coats)	58.06	sqm	17.25	1,001.54	13.37
24	Finishing walls with water proofing cement paint of required shade New work (Two or more coats applied @ 3.84 kg/10 sqm).	29.03	Sqm	58.80	1,706.96	13.44.1
25	Applying priming coat : with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	3.78	Sqm	34.95	132.11	13.50.1
26	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel, galvanised iron/steel works	19.40	sqm	29.10	564.54	13.50.3
27	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	23.18	sqm	112.30	2,603.11	13.62.1

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	CIVIL WORKS					
28	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. (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					
	(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 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	12.00	sqm	1,034.35	12,412.20	22.7
	TOTAL SCHEDULE ITEMS (IN Rs.) (A)				**154,613.71**	
2(iii)b	**SCHEDULE ITEMS**					
	INTERNAL ELECTRICAL WORKS					
	POINT AND SUB-MAIN WIRING					
1	Point wiring in steel conduit, with modular type switch Wiring					
	Group-A	4	Point	659.00	2,636.00	1.1.1
2	**Circuit/ submain wiring in PVC conduit :**					
	Wiring for circuit/ submain wiring alongwith earh wire with the					
	2X4 Sq. mm+1x4 Sq. mm earth Wire	5	M	237.00	1,185.00	1.7.2
	2x6Sq. mm+1x6 Sq. mm earth Wire	10	M	324.00	3,240.00	1.7.4
	S/F Piano type switch/ socket :					
3	Supplying and fixing following piano switch/ socket on the					
	5/6 amps switch	3	Each	34.00	102.00	1.23.1
	15/16 amp switch	1	Each	75.00	75.00	1.23.3
	3 pin 5/6 amp socket outlet	1	Each	42.00	42.00	1.23.4
4	Wiring for power plug with 2x4 Sq.mm FR PVC insulated copper conductor single core cable in surface / recessed steel conduit alongwith 1 No. 4 Sq.mm FR PVC insulated copper	5	RM	239.00	1,195.00	1.5

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2(iii)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
	CONDUITING					
5	S/F steel conduit : Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
	25 mm	5	RM	147.00	735.00	1.20.2
	Installation of Light fittings, fans and fixtures					
6	Installation, testing and commissioning of prewired, flourescent fittings of all types, complete with all accessories and tube etc. directly on ceiling/wall/ False ceiling, including connections with 1.5 sq.mm. PVC insulated, copper conductor, single core cable etc. as required.	4	No.	100.00	400.00	1.41
	Total of DSR 2016 Items (IN Rs)				**9,610.00**	
2(iii)c	***Market Rate Items***					
	LIGHT FITTINGS AND FIXTURES					
1	.Supply & Installation, of .Philips Astra Line 1x 20 W 4 Ft Straight Linear LED Tube Light or equivalent complete with all accessories etc	3	No.	750.00	2,250.00	NSR.
2	Supply, installation, testing & commissioning of Ceiling fan, 1400 mm sweep complete with capacitor, canopy and down rod including electronic step regulator modular type 5 step 2 module with provision from ceiling rose/connector to fan and regulator all as specified	1	No.	1,750.00	1,750.00	
	Total of Market Rate Items (In Rs)				**4,000.00**	