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

(Based on CPWD,Schedule of rates 2016 Delhi)

BOQ FOR TOILET BLOCK **ANNEXURE VII**

SL.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount (Rs.)	DSR 2016
1	2	3	4	5	6	7
2(i)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.	27.06	cum	166.40	4,502.78	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	27.06	cum	125.75	3,402.80	2.25
3	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	1.74	cum	917.75	1,596.89	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	36.00	sqm	7.20	259.20	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)	5.32	cum	4,478.15	23,823.76	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).	7.69	sqm	263.10	2,023.24	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.	7.69	sqm	91.90	706.71	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	17.25	sqm	450.35	7,768.54	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	34.80	sqm	422.30	14,696.04	5.9.3
10	Shelves	2.40	sqm	422.30	1,013.52	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.	352.80	Kg	56.60	19,968.48	5.22.6 A

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	CIVIL WORKS					
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)	3.92	cum	7,390.80	28,971.94	5.3
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)	18.25	cum	4,751.65	86,717.61	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)	22.17	cum	5,582.85	123,771.78	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. complete at all levels. Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble. Area of slab over 0.50 sqm.	1.20	sqm	1,949.45	2,339.34	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.	10.50	sqm	2,488.95	26,133.98	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	6.00	each	212.45	1,274.70	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	6.00	each	88.10	528.60	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	12.00	each	51.10	613.20	9.100.1

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2(i)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
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.	151.00	kg	74.05	11,181.55	10.13
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 pivots complete as per approved design. (Sectional weight of only steel members shall be measured for	100.80	kg	113.60	11,450.88	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.	6.00	sqm	555.25	3,331.50	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.	1.00	sqm	350.05	350.05	11.6.1
21	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 Mortar 1:3 (1 cement: 3 coarse	84.00		744.80	62,563.20	11.36

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2(i)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
22	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red,, Brown, laid on 20mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	20.40		822.45	16,777.98	11.39
23	12mm cement plaster of mix: 1:6 (1 cement : 6fine sand)	113.33	sqm	160.35	18,171.66	13.1.2
24	15mm cement plaster of mix: 1:4 (1 cement : 4 fine sand)	113.33	sqm	200.25	22,693.33	13.2.1
25	White washing with lime to give an even shade New work(three or more coats)	226.65	sqm	17.25	3,909.71	13.37
26	Finishing walls with water proofing cement paint of required shade New work (Two or more coats applied @ 3.84 kg/10 sqm).	113.33	Sqm	58.80	6,663.51	13.44.1
27	Applying priming coat : with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	21.00	Sqm	34.95	733.95	13.50.1
28	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel, galvanised iron/steel works	24.44	sqm	29.10	711.20	13.50.3
29	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	45.44	sqm	112.30	5,102.91	13.62.1
30	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					

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2(i)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
	(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.	32.00	sqm	1,034.35	33,099.20	22.7
	TOTAL SCHEDULE ITEMS (IN Rs.) (A)				**546,853.74**	
2(i)b	**SCHEDULE ITEMS**					
	INTERNAL PLUMBING WORKS					
1	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, Parryware/Hindware/Seabrid /Orient (Coral) with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :					17.2
	W.C. pan with ISI marked black solid plastic seat and lid	2	each	3395.45	6790.9	17.2.2
2	Providing and fixing white vitreous china flat back half stall urinal of size 580*380*350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in D.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:					17.5
	Single Half Stall Urinal with 5 Litre PVC Automatic Flushing Cistern	2	each	6187.40	12374.8	17.5.1
3	Providing and fixing wash basin with C.I brackets, 15mm C.P brass pillar taps, 32mm C.P brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					17.7
a	White vitreou china Wash basin size 550x400 mm with a pair of 15 mm C.P.brass pillar taps	4	each	2095.30	8381.2	17.7.3

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2(i)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
4	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :					17.10
	Kitchen sink with drain board					17.10.1
a	510x1040mm bowl depth 250mm		each	4120.80		17.10.1.1
5	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					17.28
	Semi rigid pipe					17.28.1
	40 mm dia	6	each	81.40	488.4	17.28.1.2
6	Providing and fixing 600x450mm bevelled 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.	4	each	817.95	3271.8	17.31
7	Providing and fixing unplasticised PVC connection pipe with brass unions					18.21
	45 cm length					18.21.2
	15 mm nominal bore	6	each	59.40	356.4	18.21.2.1
8	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931					18.49
	a) 15 mm nominal bore	2	each	371.70	743.4	18.49.1
9	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					18.51
	a) 15 mm nominal bore	6	each	492.55	2955.3	18.51.1
10	Providing and fixing C.P. brass angle valve for basin mixer and gyser points of approved quality conforming to IS:8931					18.53
	a) 15 mm nominal bore	6	each	475.70	2854.2	18.53.1
	Water Supply					
11	Concealed Pipe (GI) Including Paining With anticorrosive bitumonoustic Paint cutting chasing & making good the wall					**18.11**
	15 mm dia	50	RM	285.7	14285	18.11.1
	20 mm dia	20	RM	316.2	6324	18.11.2
12	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 fittings and the base support for tank	500	per litre	7.25	3625	18.48
13	Providing and fixing ball valve (brass) of approved quality, High or low pressure with plastic floats complete in OHT & UGT.					18.18
	20 mm nominal bore	2.00	each	327.05	654.1	18.18.2
14	Providing and fixing Gun Metal gate valve with C.I Wheel of approved quality					18.17
	25 mm nominal bore	2	each	428.20	856.4	18.17.1
	Total of DSR 2016 Items (In Rs)				**63960.9**	

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2(i)a	**SCHEDULE ITEMS**					
	CIVIL WORKS					
2(i)c	**MARKET RATE ITEMS**					
1	**Sewerage and Drainage**					
	Providing and fixing in floorsand walls SWR UPVC pipes including jointing with seal ring and all fittings etc and encasing the pipes with CC 1 : 3:6 all round complete					
	110 mm dia	5	metre	450.00	2250	
	75 mm dia	5	metre	350.00	1750	
	32 mm dia	10	metre	100.00	1000	
	Total of Market Rate Items				**5000.00**	
	SCHEDULE ITEMS					
	INTERNAL ELECTRICAL WORKS					
	POINT AND SUB-MAIN WIRING					
2(i)d						
1	Point wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch,phenol laminated sheet suitable MS box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.					
	Group-A	8	Point	659.00	5,272.00	1.1.1
2	**Circuit/ submain wiring in steel conduit :**					
	Wiring for circuit/ submain wiring alongwith earh wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2X4 Sq. mm+1x4 Sq. mm earth Wire	15	M	237.00	3,555.00	1.7.3
	2x6Sq. mm+1x6 Sq. mm earth Wire	20	M	324.00	6,480.00	1.7.4
3	**S/F Piano type switch/ socket :**					
	Supplying and fixing following piano switch/ socket on the existing plate & switch box including connections but excluding plate etc. as required.					
	5/6 amps switch	4	Each	34.00	136.00	1.23.1
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 conductor single core cable for loop earthing as required.	5	RM	239.00	1,195.00	1.5

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	CIVIL WORKS					
	EARTHING					
5	G.I. earth plate electrode :					
	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe 2.7 m long etc. (but with charcoal or coke and salt) as required.	1	Set	4,327.00	4,327.00	5.4
6	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/termination with GI thimble etc. as required.	10	metre	28.00	280.00	5.7
7	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	10	metre	37.00	370.00	5.16
8	S/F SP MCB DB consumer unit :					
	Supplying and fixing three pple neutral MCB distribution board					
	4way (4+12) double Door	1	Each	2,198.00	2,198.00	2.4.1
9	S/F 'C' series, SP MCB :					
	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	Single Pole	4	No.	173.00	692.00	2.10.1
10	S/F 'C' series, MCB :					
	Supplying and fixing of following rating, 240/415 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	40A DP MCB	1	No.	222.00	222.00	2.12.1
11	S/F 'B' series, SP MCB blanking plate :					
	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	6	No.	7.00	42.00	2.11
	CONDUITING					
12	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	25	RM	147.00	3,675.00	1.20.2
	LT CABLE LAYING AND TERMINATIONS					
13	Laying of one number PVC insulated and PVC					
	4 core, 10 Sq.mm.	50	Mtr	206.00	10,300.00	7.1.1
	S/M LV/MV cable end termination:					
14	Supplying and making end termination with brass					
	4 core, 10 Sq.mm.	2	Nos.	203.00	406.00	9.1.32

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	CIVIL WORKS					
	Installation of Light fittings, fans and fixtures					
15	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.	8	No.	100.00	800.00	1.41
	Total of DSR 2016 Items (In Rs)				**39,950.00**	
	Market Rate Items					
2(i)e	LIGHT FITTINGS AND FIXTURES					
1	.Supply & Installation, of .Philips Astra Line 1x 20 W 2Ft Straight Linear LED Tube Light or equivalent complete with all accessories etc	8	No.	600.00	4,800.00	NSR.
					-	
2	**SUPPLY OF LT CABLE**				-	
					-	
	Supply of following size of 1.1 kv grade multicore aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS : 7098:1988 with upto date amendments.				-	NSR
					-	
	4 core, 10 Sq.mm.	50	Mtr	250.00	12,500.00	
	Total of Market Rate Items (IN Rs)				**17,300.00**	