CONSTRUCTION OF 1670 MT CAPACITY FCI GODOWN AT AALO,ARUNACHAL PRADESH						
(Based on CPWD,Schedule of rates 2016 Delhi)						
BOQ FOR GODOWN BUILDING						
						ANNEXURE-1
SL. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount (Rs.)	DSR NO
1	2	3	4	5	6.00	7
A	CIVIL WORKS					
1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
2	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)in foundation trenches (not exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	27.48	cum	166.40	4,572.67	2.8.1
3	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	588.58	cum	125.75	74,013.93	2.25
4	Supplying and filling in plinth with sand under floors including, watering, ramming consolidating and dressing complete.	265.04	cum	917.75	243,240.46	2.27
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)	142.47	cum	4,478.15	638,002.03	4.1.8
6	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor block, plain window cills					
	1:1:5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	0.34	cum	6,990.40	2,376.74	4.2.2
7	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).	61.36	sqm	263.10	16,143.82	4.10

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SL. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount (Rs.)	DSR NO
1	2	3	4	5	6.00	7
A	CIVIL WORKS					
1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
8	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.	61.36	sqm	91.90	5,638.98	4.13
9	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 including finishing the top smooth.	31.00	sqm	450.35	13,960.85	4.17
10	Centring and shuttering including strutting, propping etc. and removal of form for:removal of form for:					
A	Foundations,footings,bases of columns including beams etc. for mass concrete	157.60	sqm	193.95	30,566.52	5.9.1
B	Lintels, beams, plinth beams, girders, bressumers and cantilevers	193.60	sqm	342.90	66,385.44	5.9.5
C	Columns, pillars, piers, abutments, posts and struts	141.36	sqm	467.85	66,135.28	5.9.6
11	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars.	20,334.25	Kg	56.60	1,150,918.55	5.22.6
12	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Above plinth level. Thermo-Mechanically Treated bars.	2,079.00	Kg	56.60	117,671.40	5.22.6 A
13	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level	120.80	cum	6,215.35	750,814.28	5.1.2

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SL. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount (Rs.)	DSR NO
1	2	3	4	5	6.00	7
A	CIVIL WORKS					
1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
	1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)					
14	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)	9.24	cum	7,390.80	68,290.99	5.3
15	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)	38.23	cum	4,751.65	181,655.58	6.1.2
16	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)	137.98	cum	5,582.85	770,321.64	6.4.2
17	Half brick masonry with F.P.S. bricks of class	18.48	sqm	708.70	13,096.78	6.13.1
	Cement mortar 1:3 (1 Ccement : 3 coarse sand)					
18	Providing and fixing Rolling shutters complete 80x 1.25mm M.S Laths with 1.25mm thick top cover	26.80	sqm	2,316.10	62,071.48	10.6.1
19	Providing and fixing ball bearing for rolling shutters	12.00	each	379.30	4,551.60	10.7

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A	CIVIL WORKS					
1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
20	Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement 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 glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer ; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required.	206.10	kg	113.60	23,412.96	10.11
21	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	583.32	kg	67.60	39,432.43	10.2
22	Providing and fixing bolts including nuts and washer plates complete	100.00	kg	96.25	9,625.00	10.20
23	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.	1,152.28	sqm	555.25	639,803.47	11.4
24	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.	26.70	sqm	350.05	9,346.34	11.6.1

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1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
25	Providing and fixing glass strips in joints of terrazo/cement concrete floors.	1,757.08	metre	52.50	92,246.70	11.13.1
	SUB HEAD - XII ROOFING					
26	12mm cement plaster of mix:	447.23	sqm	160.35	71,713.33	13.1.2
27	18mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and top layer 6 mm thick cement of mix:1:3 (1 cement : 3 fine sand)	496.87	sqm	272.05	135,173.48	13.12

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28	White washing with lime to give an even shade New work(three or more coats)	447.23	sqm	17.25	7,714.72	13.37
29	Finishing walls with [premium acrylic smooth exterior paint with silicone additives of required shade New work (Two or more coats applied @ 1.43lit/10 sqm over and including primer coat of exterior primer applied@2.20kg/10sqm)	496.87	Sqm	96.80	48,097.02	13.47.1
30	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel, galvanised iron/steel works	70.50	sqm	29.10	2,051.43	13.50.3
31	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	70.50	sqm	112.30	7,916.70	13.62.1
	TOTAL SCHEDULE ITEMS (IN Rs.) (A)				**5,402,253.79**	
	TOTAL COST SCHEDULE ITEMS (C)				**5,402,253.79**	
	NON SCHEDULE ITEMS					
1	**PEB STRUCTURE AND ASSOCIATED COMPONENTS (Design & Construction)**					
	Building Type 1670 MT Godown : TCCS(Tapered column clear span) Double slope					
	size :65.10m x 15.38 m					
	Width : 15.38 m c/c of steel column					
	Clear Height : 5.60 m					
	Bay spacing :4.65m- 14 bays					
	Bracing : Diagnol type in Roof and wall					

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A	**CIVIL WORKS**					
1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
	Roofing : Single skin 0.47 mm TCT - HI Rib Bare Galvalume profiled panels					
	External / Partition Wall cladding/(Above 2.6mHt): Single skin 0.47 mm TCT - HI Rib					
	Sky Lights : 14 Nos - 2 mm thick					
	Eave Gutter / Flashing : Matching to roof and wall					
	Canopy/Verandah : 2.45 m continious on 1 side and 03 nos 4.3 x 0.90 m on other side					
	Turbo Vent : 7 Nos - 600 mm dia turbo vent with FRP base considered.					
	Design loads					
	Roof Live Load : 0.57 KN/m2					
	Dead Load : 0.15 KN/M2					
	Snow Load : 200kg/m2					
	Wind speed : 47m/s	1.00	each	6,857,114.00	6,857,114.00	
2	Providing and Fixing Chicken Wire Mesh at the Joint of RCC & Brickwork complete	114.66	Sqm	150.00	17,199.00	
3	Providing and fxing on wall unplasticised rigid PVC rain water pipes conforming to IS 13592 including all neceassary fittings and nointing with seal ring conforming to IS 5382 110 mm dia pipes complete	50.00	metre	450.00	22,500.00	
	TOTAL NON SCHEDULE ITEMS (D)				**6,896,813.00**	
	GRAND TOTAL (C+D)				**12,299,066.79**	
B	**ELECTRICAL WORKS**					
I	**POINT AND SUB-MAIN WIRING**					

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1	Point 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 Steel conduit, with piano type switch,phenol laminated sheet suitable MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group- C	33	Point	994.00	32,802.00	1.1.3
2	Wiring for light/ power plug with 2 x4 sqmm. FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 no 4 sqmm. FRLS PVC insulated copper conductor single core cable etc as required	115	Metre	239.00	27,485.00	1.5
3	Wiring for circuit/ submain wiring alongwith earh wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required					
	2X2.5 Sq. mm+1x2.5 Sq. mm earth Wire	200	M	206.00	41,200.00	1.7.2
	2X4 Sq. mm+1x4 Sq. mm earth Wire	125	M	237.00	29,625.00	1.7.3
	2x6Sq. mm+1x6 Sq. mm earth Wire	125	M	324.00	40,500.00	1.7.4
					-	
4	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	450	M	147.00	66,150.00	1.20.2
5	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.	4	Each	287.00	1,148.00	1.30
II	**MCCB,MCB& DB"S**					

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1	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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)					
a	6 way, Double door	2	Each	942.00		2.3.1
b	8 way, Double door		Each	1,061.00	-	2.3.2
					-	
2	Supplying and fixing following way, horizontal type three pole and 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)				-	
a	4way(4+12), Double door	1	Each	2,198.00	2,198.00	2.4.1
					-	
3	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				-	
a	Single pole	20	Each	173.00	3,460.00	2.10.1
b	Double pole		Each	463.00	-	2.10.3
c	Triple pole and neutral	1	Each	891.00	891.00	2.10.5
					-	
4	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	8	Each	7.00	56.00	2.11
					-	
5	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				-	
	40 amps	3	Each	1,719.00	5,157.00	2.14.2
					-	

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1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
6	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				-	
	63 amps	1	Each	2,302.00	2,302.00	2.15.3
					-	
III	EARTHING				-	
1	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.	4	Set	4,327.00	17,308.00	5.4
					-	
2	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.	50	metre	28.00	1,400.00	5.7
					-	
3	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	50	metre	129.00	6,450.00	5.16
					-	
					-	
IV	CABLE LAYING				-	
1	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				-	

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	upto 35 Sq.mm.	200	Mtr	206.00	41,200.00	7.1.1
					-	
2	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on wall surface as required.				-	
	upto 35 Sq.mm.(clamped with 1 mm thick	30	Mtr	25.00	750.00	7.7
					-	
v	MV CABLE JOINTING AND END TERMINATION				-	
					-	
1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				-	
a	2X 6 Sq.mm	4	each	157.00	628.00	9.1.1
b	4X 1 6 Sq.mm	4	each	255.00	1,020.00	9.1.33
c	4X 25 Sq.mm		each	258.00	-	9.1.34
d	4X 35 Sq.mm		each	283.00	-	9.1.35
					-	
					-	
2	Providing and fixing GI Pipes complete with fittings including trenching and refilling etc				-	
	65 mm nominal bore	50	Mtr	451.70	22,585.00	18.12.7
	Total of DSR Items				**344,315.00**	
	Total A				**344,315.00**	
	Market Rate Items					
1	Supply , Installation, testing and ommissioning of 1x 20 W LED Ceiling tube light with cover (Box type) , complete with all accessories etc.,	1	each	3,500.00	3,500.00	
2.0	Supply , Installation, testing and ommissioning of 1x 20 W LED Ceiling light , Hanging Type tube light with cover (Box type) , complete with all accessories etc.,	3	each	3,700.00	11,100.00	
3.0	Supply , Installation, testing and ommissioning of 1x 20 W LED wall tube light with cover (Box type) , complete with all accessories etc.,	21	each	3,400.00	71,400.00	

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4.0	Supply , Installation, testing and ommissioning of 1x 24 W LED street wall tube light with cover (Box type) and light fixture mounted on 50 mm did GI Bracket , complete with all accessories etc.,	8	each	4,500.00	36,000.00	
5.0	Supply of following size of 1.1 kv grade				-	NSR
a	4 core, 10 Sq.mm.	125	Mtr	375.00	46,875.00	
b	4 core, 16 Sq.mm.	50	Mtr	375.00	18,750.00	
c	4 core, 25 Sq.mm.		Mtr	450.00	-	
d	4 core, 35 Sq.mm.		Mtr	600.00	-	
6	Design, manufacture, supplying, installing in correct aligned position, making proper connections, testing and commissioning of LV panels (for Meter Board) suitable for 415 V, 3 phase, 4 wire, 50 Hz power distribution system, Indoor type, IP42 rating, free standing, floor/wall				-	
	incoming					
	One (1) No. 63 A FP MCCB with thermomagnetic O/C & SC release 25 KA					
	Metering & Indication :					
	One (1) No. digital ammeter 96 sq.mm with					
	One (1) set of RYB phase indication lamps with					
	Busbar :					
	200 A 4 strip Al. Busbar insulated with heat					
	Outgoings :					
	Three (3) Nos. 32 A TPN MCB 10 KA					
	Digital Electronic KWH Meter					
	(a) Tamper proof three phase 4 wire 415 V AC	1	each	70,000.00	70,000.00	
	Total of Market Rate Items				**257,625.00**	
	G Total Schedule + Market Rate items				**601,940.00**	
	SUMMARY GODOWN					
A	CIVIL WORKS				12,299,066.79	
B	ELECTRICAL WORKS				601,940.00	

CONSTRUCTION OF 1670 MT CAPACITY FCI GODOWN AT AALO,ARUNACHAL PRADESH						
(Based on CPWD,Schedule of rates 2016 Delhi)						
BOQ FOR GODOWN BUILDING						
						ANNEXURE-1
SL. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount (Rs.)	DSR NO
1	2	3	4	5	6.00	7
A	CIVIL WORKS					
1	Earth work in excavation by mechanical means (Hydralic excavator/ manual means)over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed All kinds of soil	280.20	cum	125.95	35,291.19	2.6.1
	G TOTAL A +B				12,901,006.79	