

## Name of Work: Construction of O&amp;M Store at 400/ 220 KV Panchkula S/s.

## BILL OF MATERIALS

Sl.	DSR-2021	Service No.	SAC Code	GST Rate	Item Description	Unit	Quantity
					<b>Civil Portion</b>		
1	1.1.2	120000008	995428	18%	By mechanical transport including loading, unloading and stacking (upto 1km lead).	cum	4.53
2	2.8.1	120000349	995433	18%	Earth work in excavation 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.:All kinds of soil.	cum	45.56
3	2.25	120000391	995433	18%	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	41.04
4	2.27	120000394	995433	18%	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	4.43
5	4.1				Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering : All works upto plinth level.		
a	4.1.5	120000439	995454	18%	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.43
b	4.1.8	120000442	995454	18%	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)	cum	1.23
6	4.10	120000470	995454	18%	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement:2 Coarse sand: 4 Graded stone aggregate 12.5 mm nominal size)	sqm	1.73
7	4.13	120000473	995454	18%	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg 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.	sqm	1.73
8	4.17	120000477	995454	18%	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	18.62
9	5.1				Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement- All works upto Plinth level.		
a	5.1.2	120000488	995454	18%	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	5.42
10	5.2				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. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :		
a	5.2.2	120000492	995454	18%	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.43

BILL OF MATERIALS							
Sl.	DSR-2021	Service No.	SAC Code	GST Rate	Item Description	Unit	Quantity
11	5.3	120000493	995454	18%	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) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	11.72
12	5.9				Centring and shuttering including strutting, propping etc. and removal of fometre for :		
a	5.9.1	120000499	995457	18%	Foundations, footings, bases of columns etc. for mass concrete.	sqm	14.58
b	5.9.3	120000501	995457	18%	Suspended floors & Slabs, roofs, landings, balconies and access platfometre	sqm	70.44
c	5.9.5	120000503	995457	18%	Lintels, beams, plinth beams, girders, bressumers & cantilevers	sqm	30.48
d	5.9.6	120000504	995457	18%	Columns, pillars, piers abutments posts & struts	sqm	27.00
e	5.9.16				Edges of slabs and breaks in floors and walls		
f	5.9.16.1	120000514	995457	18%	Under 20 cm wide	metre	31.04
13	5.22.6	120000543	995454	18%	Reinforcement for R.C.C. work including straightening, cutting, bending, binding and placing in position complete.Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	2000.00
14	6.1.2	120000601	995456	18%	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in::Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.40
15	6.4.2	120000607	995456	18%	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 1:6 (1 cement : 6 coarse sand)	cum	16.16
16	6.13.2	120000618	995456	18%	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)	sqm	7.14
17	6.15	120000620	995456	18%	Extra for providing and placing in position 2 Nos., 6mm dia M.S. bars at every third course of half brick masonry (with F.P.S. bricks).	sqm	7.14
18	9.84	120000956	995476	18%	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	1.00
19	9.97				Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete		
a	9.97.2	120000990	995476	18%	250x10 mm	each	2.00
b	9.97.4	120000992	995476	18%	150 X 10 mm	each	5.00
c	9.97.5	120000993	995476	18%	100 X 10 mm	each	2.00
20	9.100				Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete.		
a	9.100.1	120000996	995476	18%	125mm	each	2.00
b	9.100.2	120000997	995476	18%	100 mm	each	6.00
21	9.101				Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour & shade with necessary screws etc. complete		
a	9.101.2	120001000	995476	18%	Twin rubber stopper	each	1.00

**BILL OF MATERIALS**

Sl.	DSR-2021	Service No.	SAC Code	GST Rate	Item Description	Unit	Quantity
22	10.18	120001147	995476	18%	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm 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 screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing	each	1.00
23	11.3.1	120001170	995474		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	Sqm	44.25
24	11.13	120001200	995474		Providing and fixing glass strips in joints of terrazo/ cement concrete floors-40 mm wide and 4 mm thick	Metre	80.00
25	12.41				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	12.41.2	120001351	995453	18%	110 mm diameter	metre	5.00
26	12.42				Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for 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.		

BILL OF MATERIALS							
Sl.	DSR-2021	Service No.	SAC Code	GST Rate	Item Description	Unit	Quantity
a	12.42.5				Bend 87.5°		
aa	12.42.5.2	120001361	995453	18%	110 mm bend	each	2.00
b	12.42.6				Shoe (Plain)		
bb	12.42.6.2	120001363	995453	18%	110 mm Shoe	each	1.00
27	13.1				12 mm cement plaster of mix :		
a	13.1.2	120001400	995472	18%	1:6 (1 cement : 6 fine sand)	sqm	78.30
28	13.2				15 mm cement plaster on the rough side of single or half brick wall of mix :		
a	13.2.2	120001402	995472	18%	1:6 (1 cement : 6 fine sand).	sqm	102.58
29	13.16.1	120001423	995472	18%	6 mm cement plaster of mix : 1 : 3 (1 Cement : 3 Fine sand)	sqm	59.58
30	13.42				Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.		
a	13.42.1	120001517	995473	18%	Two or more coats on new work	sqm	78.30
31	13.85.3	120001522	995473	18%	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.---With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	sqm	180.88
32	13.47				Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade		
a	13.47.1	120001467	995473	18%	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	sqm	102.58
33	13.80.	120001511	995472	18%	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.	sqm	180.88
34	21.1				Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) :		
a	21.1.1				For fixed portion.		
aa	21.1.1.2	120002791	995476	18%	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	35.00
b	21.1.2				For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).		
bb	21.1.2.2	120002794	995476	18%	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	25.00
35	21.2.2	120002797	995476	18%	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.::Prelaminated particle board with decorative lamination on both sides	sqm	2.00

**BILL OF MATERIALS**

Sl.	DSR-2021	Service No.	SAC Code	GST Rate	Item Description	Unit	Quantity
36	21.3				Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) :		
a	21.3.2	120002799	995476	18%	With float glass panes of 5.0 mm thickness	sqm	5.00
37	21.11				Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.		
a	21.11.2	120002812	995476	18%	255 X 19 mm	each	5.00
38	21.13	120002819	995476	18%	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	1.00
39	15.34.1	120001690	995476	18%	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of: T' or 'L' iron or pipe.	each	7.00
40	15.36	120001693	995476	18%	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	kg	50.00

Name of work: Construction of O&M Store at 400/ 220 KV Panchkula S/s.

BOM Electrical portion (B)							
S.No.	DSR 2018	Mat code	SAC Code	GST Rate	Description of Item/Location /Drg.Ref	Units	Qty
					ELECTRICAL PORTION		
1	1.1				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.		
	1.10.3	130000027	995461	18%	Group C	Point	11
2	1.12	130000029	995461	18%	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.	Mtr.	35
3	1.14				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	130000032	995461	18%	2 x 2.5 Sq.mm + 1X2.5 sq.mm earth wire	Mtr.	15
5	1.24				Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
(i)	1.24.1	130000121	995461	18%	5/6 A switch	Each	4
(ii)	1.24.4	130000124	995461	18%	3 pin 5/6 A socket outlet	Each	4
6	1.25	130000129	995461	18%	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	2
4	1.32	130000146	995461	18%	Supplying and Fixing suitable GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16 & 5/6 amps modular socket outlet and 15/16 modular switch, connection, painting etc. a required.	Each	6
9	2.4				Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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)		
	2.4.1	130000196	998736	18%	4 way (4 + 12), Double door	Each	1
10	2.10				Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.		
(i)	2.10.1	130000233	998736	18%	Single pole	Each	5
(ii)	2.10.5	130000237	998736	18%	Single pole and neutral	Each	1
11	2.14.2				Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
	2.14.2	130000245	998736	18%	40 A	Each	1