

## ENGINEERING SPECIFICATIONS

### SCHEDULE – I

#### General details of standard conventional godown of 1000 Metric tonne capacity (MTC)

##### **(A) Details for 10.71 m C/C span godown (capacity = 1000 MT, compartment = 1 No.):**

- Godown size (Centre to Centre) = 44.44m x 10.71m
- Godown size (Outer to Outer) = 44.67m x 10.94m
- Godown size excluding Verandah = 44.67m x 10.94m
- Godown size including one Verandah (1.83m) = 44.67m x 12.77m

##### **General details for both the spans:**

1. Front Road side Verandah Width: 1.83m
2. Plinth level: 0.61m from road level.
3. 1000 MT godowns: One compartment.
4. Compartments C/C length (11 panels): 44.44m.
5. Total No. of stacks (size = 6.10m x 9.14m): 6 Nos. + one half sized stack.
6. Godown height: 4.88m from plinth/floor level.
7. Verandah Truss height on road side: 3.48m from plinth/floor level.
8. No. of Rolling shutters/steel garage doors: 8 Nos.
9. Size of rolling shutters/garage doors (clear opening): 1.83m x 2.44m.
10. Bottom ventilators (V6) size 0.60m x 0.60m: 14 Nos. (Both long walls).
11. Top ventilators size 1.50m x 0.60m: 22 Nos. (Both long walls and one in each panel).

##### **NOTE:**

- (i) Continuous platform of 1.83 meter width shall be provided on front side of the godowns. On the back side, 0.23 mt projected RCC nosing is provided only in front of garage doors/rolling shutters or 0.90 mt wide platform is provided in front of garage shutters/rolling shutters openings only as per site requirement.
- (ii) Any details not mentioned above will be as per the CWC existing specifications for conventional godowns. In case CWC does not have any specifications, then relevant IS code 607 of 1971 for construction of godowns will be followed.
- (iii) Tubular Trusses: As per the wind speed zone (33m/sec to 55m/sec) classified in the relevant latest BIS code.
- (iv) Total Carpet area of godown: 44.14m x 10.41m = 459.50 Sqm.
- (v) Ancillaries Required: Compound wall, office block alongwith sanitary, electrification & water supply work as per the requirement.

## SCHEDULE-II

### SPECIFICATIONS FOR THE CONSTRUCTION OF CONVENTIONAL TYPE GODOWNS

#### GODOWN

1. Normal Size of Godown of 1000 MT capacity.

Internal dimensions of the godown:

$$44.14\text{m} \times 10.41\text{m} = 459.50 \text{ sq.mt}$$

1. **FOUNDATION:** The depth of foundation is proposed for Ordinary Soils at 1.30 M for columns and 1.20 M for panel walls (foundation design is based on for soil capacity of 10 tonnes per sq.mt). For expensive soils/black cotton soils, foundation should be suitably designed alongwith requirement of pile foundations as per site requirement.

PCC 1:5:10 (1 cement: 5 coarse sand: 10 stone aggregate of 40 mm nominal size) is provided under columns and panel walls respectively. R.R. Masonry/Brick Masonry in cement mortar 1:6 (1 cement : 6 coarse sand) is proposed for the foundation and superstructure. The excavated good quality of earth shall be reused to fill in the wall- trenches and remaining earth is used for filling under floors. Blanket course of sand/moorum under bed concrete are provided for black cotton soils/poor soils to increase soil bearing capacity. Design of footings of structure should be in accordance with the bearing capacity of soil at site.

2. **PLINTH BEAM, TIE BEAM & COLUMNS:** All RCC works shall be executed in design mix of M 25 or nominal mix of 1:1½:3 (1 cement: 1½ coarse sand: 3 stone aggregate of 20 mm nominal size). 0.15m thick RCC tie beam is provided on all the walls at a height of 4.73m from floor level in the godown. Grade beam at ground level & an additional beam at door level are to be provided in earthquake Zone iii & iv as per design to withstand the bearing loads & earthquake forces.

3. **SUPER STRUCTURE:** All the walls are to be provided with 23 cm thick brick masonry or 38 cm thick RR masonry in cement mortar 1:6 (1 cement: 6 coarse sand).

4. **FINISHINGS:** 12mm thick cement plaster in cement mortar 1:6 (1 cement: 6 fine sand) on one side and 15mm thick plaster on the other side of the walls, 6mm thick plaster in cement mortar 1:3 (1cement:3 fine sand) on exposed surface of columns is provided. 2 or more coats of white wash on inner side of walls & colour wash/ snowcem on external side of walls are to be provided.

5. **PLATFORM:** Covered verandah of 1.83 m wide with cantilever Truss on road side to be provided.

## **6. FLOORING:**

### **(A) In Ordinary soils:**

(a) Rammed Earth filling as per requirement. (b) 150 mm thick sand filling (c) WBM with 150 mm thick stone aggregate of grade II in two layers and 75mm thick layer of stone aggregate of grade III (d) 50mm thick C.C flooring 1:2:4 (1 cement: 2 coarse sand: 4 coarse aggregate 20 mm nominal size) with a floating coat of neat cement. Total crust thickness of flooring is 27.5 cm. In place of WBM of 22.5cm thickness, Plain cement concrete of 15cm thickness in the mix of 1:5:10 (1 cement: 5 coarse sand: 10 stone aggregate of 40mm nominal size).

### **(B) In Expansive soils/Black cotton soils:**

(a) WBM with 150 mm thick stone aggregate of grade I, 100 mm thick layer of stone aggregate grade II and 75 mm thick layer of stone aggregate grade III (b) 50 mm thick CC flooring 1:2:4 (1 cement: 2 coarse sand: 4 coarse aggregate 20 mm nominal size) with a floating coat of neat cement.

Total crust thickness of the flooring is 37.5 cm.

An additional 235 mm thick blanket course of moorum underneath the WBM grade-I is provided in such soils.

**7. ROOFING:** Tubular trusses on RCC columns to support Pre-painted polyester coated sheets/GI/Galvalume sheeting shall be provided. Fibre glass (Translucent) sheets are provided for about 2% of the roofing area for natural light. Inside height of godown from Plinth level to Bottom of Trusses is 4.88m from plinth/floor level. Pre-engineered steel structures with pre-painted polyester coated sheets with turbo ventilators, translucent sheets etc. are also used in the warehouses.

**8. WINDOWS, VENTILATORS, ROLLING SHUTTERS AND STEEL DOORS:** Previously we were providing Rolling shutters (clear opening) of size 1.83m x 2.44m in the godowns. Now 1.83x2.44m size steel garage doors are provided in place of rolling shutters and these doors are to be fixed on outer edge of the walls for easy and full opening of the doors. Windows of size 0.60m X 0.60m and ventilators of size 1.50m X 0.60 m with angle iron frame as shown in the relevant drawing fixed on inner edge of the walls. Top ventilators are also covered with semi barrel type expanded metal grill for checking the entry of birds.

## **9. ROADS:**

### **(A) In ordinary soils:**

(a) WBM with 100 mm thick layer of stone aggregate grade I and 20 cm thick cement concrete in the mix of 1:1½:3 (1 cement: 1½ coarse sand:3 stone aggregate of 40mm nominal size)

Total crust thickness of road is 30 cm.

### **(B) In Expansive soils/Black cotton soils:**

(a) WBM with 230 mm thick layer of stone aggregate grade I and 20 cm thick cement concrete in the mix of 1:1½:3 (1 cement: 1½ coarse sand: 3 stone aggregate of 40mm nominal size)

Total crust thickness of road is 43 cm.

An additional 300 mm thick blanket course of moorum beneath the WBM of grade-I is provided in such soils.

10. **WEIGHBRIDGE & CABIN ROOM:** Electronic Lorry weigh Bridge of 40/60 MT capacity (as per CWC requirement) with platform size 9 m x 3 m or more of reputed make shall be installed with suitable cabin room.

11. **COMPOUND WALL:** 1.83 m high boundary wall in brick/RR masonry above Ground level with 0.6m high, 6 rows of barbed wire/concertina coils with angle iron posts 1.02m C/C on top of wall is to be provided. 15mm thick plastering in cement mortar 1:6 on rough side of the wall and 12mm thick plastering with cement mortar 1:6 on plain side of the wall is to be provided.

12. **BOUNDARY WALL GATE & WICKET GATE:** 4.90 m wide main steel gate and 0.91m wide wicket gate are provided as per drawing.

13. **OFFICE BUILDING:** Office space is provided as per the requirement of the staff/external customers alongwith all allied facilities of toilets, drinking water etc.

The above specifications are general specifications and these are not exhaustive. These specifications would vary as per need of the site and as per the design requirement at a particular site.

**ABSTRACT OF COST/BILL OF QUANTITIES FOR THE  
CONSTRUCTION OF 1000 MT CAPACITY GODOWN**

**(CIVIL WORK)**

SL.	PARTICULARS	QNTY.	UNIT	RATE	AMOUNT	REMARKS
1.	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m. All kinds of soil.	148.00	Cum			CPWD DSR 2012 Rate  <u>2.8.1</u> P - 72
2.	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 50m and lift up to 1.5m.	148.00	Cum.			<u>2.25</u> P - 75
3.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering – All work up to plinth level. 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size).	118.00	Cum.			<u>4.10</u> P - 85
4.	Supplying and filling in plinth with fine sand under floors including, watering, ramming consolidating and dressing complete.	238.00	Cum.			<u>2.27</u> P - 75
5.	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)	64.00	Cum.			<u>6.1.2</u> P - 109

6.	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 : 3 graded stone aggregate 20mm nominal size).	16.00	Cum.			<u>5.1.2</u> P – 96
7.	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. 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	14.00	Cum.			<u>5.2.2</u> P – 96
8.	Reinforced cement concrete work in beam suspended floors, roofs having slope up to 15degree landings, balconies, shelves, chajjas, lintels bands plain window gills, staircases and spiral staircases up to floor five levels excluding the cost of centering, shuttering, finishing and reinforcement with. 1:1.5:3 (1 cement : 1.5 coarse: 3 graded stone aggregate 20mm nominal size).	7.50	Cum.			5.3+(5094.85-4703.90)
9 (a)	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. TMT bars.	3740.00	Kg			<u>5.22.6</u> P – 99
10. (a)	Centering and shuttering including strutting, propping etc. and removal of form for. Foundations, footings, bases of columns, etc. for mass concrete.	46.00	Sqm.			<u>5.9.1</u> P – 97
(b)	Columns, Pillars, Piers, Abutments, Posts and Struts.	228.00	Sqm.			<u>5.9.6</u> P – 97

(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	64.00	Sqm.			<u>5.9.5</u> P – 97
11.	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. Cement mortar 1:6 (1 cement : 6 coarse sand).	152.00	Cum.			<u>6.4.2</u> P – 109
12.	“Supplying & fixing rolling shutter of approved make of Regd. Size of 80x1.25mm M.S. laths interlocked together their entire length and joined together at the end locks” mounted on specially designed pipe shaft. With brackets side guides and arrangements for inside and outside locking with push & pull operation completer including the cost of providing & fixing 3nos. of 27.5 cm long wire springs grade no.2 and M.S. top cover 1.25 mm thick for rolling shutters, including extra locking arrangements at threshold as per drawing no. CWC/PG/241.	42.56	Sqm.			<u>35AOR</u>
13.	Providing and fixing steel glazed ventilators of steel sections of 40x40x6 mm size Angle iron, 40x40x6 mm Tee Section for ventilators frame and 25x25x4 mm. Angle iron for ventilator shutter with 15x3 M.S. flat, Beading, Joints mitered with M.S. fittings and 40x6mm M.S. hold fast 30cm. long embedded in cement concrete block of size 35x10x10 cm of C. Conc. Mix 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) including providing and fixing of glass panes of nominal thickness 4mm (weighing not less than 10.00kg)/sqm.) with glazing clips and special metal sash putty of approved quality and manufacture complete including a priming coat with ready mixed Zinc Chromate yellow primer of approved brand and manufacture with necessary M.S. pivot/hinges 50mm projecting type catchers/handles, M.S. Tower bolts					

	100mm long and necessary eyes welded to frame.	21.60	Sqm.			2012 AOR of CWC
14.	<p>Providing and fixing metal mesh frame with expanded metal 20x6mm strands 3.25mm wide and 1.6mm thick, weighing not less than 4.078kg/sqm and frame made of 25x4mm M.S. flat sub divided into three equal panels with 25x4mm M.S. flat expanded metal to be fixed with 19x3mm M.S. beading tack welded, 4 nos. of M.S. cleats of size 50x50x4mm size with holes for 12mm dia bolt i/(c) and manufacture complete as per drg. No.CWC/PG/382 and as per instructions of Engineer in charge. The whole frame with expanded metal mesh is to be fixed on the other side of V4 openings with 12mm dia 250mm long bolts with nuts and washers embedded in C.Conc. Blocks of size 75x75x125mm of C. Conc. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) in brick bands/RCC lintel if any of the ventilators.</p> <p>NOTE: Payment for Cement Conc. Blocks, bolts, shall be paid separately under relevant items, payment for M.S. frame shall be paid on area basis of outer to outer dimension of frame.</p>	29.70	Sqm.			21 AOR
15.	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.	9000.00	kg			<u>10.2</u> P – 176



16.	Providing and fixing precoated galvanized iron profiles sheets (size, shape and pitch for corrugation as approved by Engineer –in –charge ) 0.55 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 polyster 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 Engineer –in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5 x5.5 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 of size and shape wherever required.	706.00	Sqm.			<u>12.50</u> P – 212
17.	Providing and fixing precoated galvanized steel sheet roofing accessories 0.50mm (+0.05%) total coated thickness, 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 street and polyster top coat 15-18 microns using self drilling /self tapping screws complete. a)Ridges plain (500 -600mm)	50.00	Mtr.			<u>12.51.1</u> P – 212
18.	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 a) 50 mm thick with 20 mm nominal size stone aggregate	592.00	Sqm.			36 AOR
19	Providing and fixing glass strips in joints terrazzo/cement concrete floors. A) 50mm wide and 4mm thick.	880.00	RMT			23 AOR
20	Providing and fixing M.S. round holding down bolts with nuts and					<u>10.19</u>

	washer plates complete.	332.00	Kg.			P – 179
21	Providing and fixing bolts including nuts and washers complete.	160.00	Kg.			<u>10.20</u> P – 179
22.	12 mm cement plaster of mix. 1:6 (1 cement : 6 fine sand)	772.00	Sqm.			<u>13.1.2</u> P – 222
23.	20 mm cement plaster of mix 1:6 (1 cement : 6 fine sand)	850.00	Sqm.			<u>13.3.2</u> P – 222
24	6 mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	128.00	Sqm.			<u>13.16.1</u> P – 223
25	White washing with lime to give an even shade New work (three or more coats)	772.00	Sqm.			<u>13.37.1</u> P – 295
26	Applying one coat of cement primer of approved brand and manufacture on wall surface Cement primer	978.00	Sqm.			<u>13.43.1</u> P – 225
27	Finishing walls with water proofing cement paint of required shade. New work (two or more coats applied @ 3.84 Kg/10Sqm)	978.00	Sqm.			<u>13.44</u> P – 225
28	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	400.00	Sqm.			<u>13.61</u> P – 227
29	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth	100.00	Sqm.			<u>4.17</u> P – 88
30	Antitermite treatment in foundations trenches, flooring with approved chemicals including the cost of materials and labour.	630.00	Sqm.			

31	Providing gola 75x75 mm in cement concrete 1:2:4(1 cement :2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement :3 fine sand ) as per standard design.	50.00	mtr			<u>1221</u> P 207
32.	Steel work in single section for air inlet, made of the frame of M.S. Angle 30x30x5 mm joints mitred welded with 4 Nos. 15 cm long lugs of M.S Flat 20x6mm to act as hold to be fixed in cement concrete blocks of size 200x100x100 mm in cement concreter mix of 1:2:4(1 cement : 2 coarse sand : 4 stone agg. 12.5 mm nominal size) including providing & fixing G.I. wire fabric to be fixed with 15x3 mm M.S. flat beading, tack welding including applying priming coat of zinc chromate yellow prime cleats are to be provided on inner side to withhold/support the covering. Slanted M.S. flat strips of size 40x40 mm to be provided as per the drawing. Complete air inlet to be manufactured and fixed in position as per drawing no. CWC/PG/414 an as per direction of Engineer-in- charge. Note: Cement concrete blocks shall be paid separately under relevant item.	286.00	kg			<u>37 AOR</u>

**ABSTRACT OF COST/BILL OF QUANTITIES FOR THE  
CONSTRUCTION OF 1000 MT CAPACITY**

**(ELECTRICAL WORK)**

S. No.	Description of work	Quantity	Unit	Rate	Amount	Remarks
1.	Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.(ISI Marked)  (a) 25mm	195.00	Meter			DSR 2012(EL) P-5 I-21.2
2.	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as required. (a) 3x1.5 sqmm (b) 4x1.5 sqmm (c) 5x1.5 sqmm (d) 6x1.5 sqmm (e) 8x1.5 sqmm (f)3x2.5 sqmm (g)6x2.5sqmm	79.00 27.00 5.00 37.00 8.00 21.00 19.00	Meter Meter Meter Meter Meter Meter Meter			DSR 2012 (EL) P-4  I-1.17.3 I-1.17.4 I-1.17.5 I-1.17.6 I-1.17.8 I-1.17.12 I-1.17.15
3	Supplying and fixing 12/13 mm flexible metal conduit including connection, painting etc on surface/recessed as per direction of Engineer in Charge.	7.00	Meter			Market rate
4	Supplying and fixing 3 pin,5 amp. Ceiling rose on the existing junction box/wooden block including connection etc as required.	20.00	Meter			DSR-2012 (E)  I-1.33/P-8

5	Supplying of 1X28 watt T-5 lamp luminaries, prewired with electronic choke, and T-5 28 W lamp having powder coated CRCA M.S. Box complete with all accessories as required. Make surya –UNIARY- Cat/Sub 128 T-5 EB-I/P-3/Crompton cat ref. T-5 RSF 28 E/ or equivalent in Bajaj For office block and godown	15.00	Each			Market rate
6	Installation, testing and commissioning of prewired, fluorescent fitting/compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/wall/truss, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	15.00	Each			DSR-2012 (E) p-8 I-1.41
7	Supplying , installation, testing commissioning of 36 w/40w LED warm white , street light fitting, operating voltage 90-270 V. A.C, beam angle 30/90, IP 65/66, lumen more than 4000, pole die 60mm, life span 50000 hour, antiglare, driver etc. complete with all accessories etc. (with manufacturer certificate ) make -NTL-Pharox -40watts LED or equivalent in Bajaj and Crompton	5.00	Each			Market rate
8	Supplying and fixing GI Pipe bracket on wall, suitable for fixing above street light made out of 40mm OD B-class GI pipe up to 2.00 meter length along with 2 sets suitable clamps, nut bolts/fastners including bending the shape, smoke gray painted with primer etc. as required.	5.00	Each			Market rate

9	<p>Supplying and fixing following way, single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on surface/recess, complete with tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)</p> <p>(b) 2+ 8 way, Double Door</p>	4	Each			DSR-2012 P-11  I-2.3.7
10	<p>Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.</p> <p>(a) 40 amps</p>	1	Each			DSR2012 (EL) P-13  I-2.12.1
11	<p>Supplying and fixing 5 amps to 32 amps rating, 240 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.</p> <p>(a) Single Pole</p>	38.00	Each			DSR2012 (EL)p-13 I-2.10.1
12	<p>Providing and fixing M.V. danger notice plate of 200 mm x 150 mm, made of mild steel at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red color on front side as required.</p>	1.00	Each			DSR 2012 (EL)P-14  I-2.21
13	<p>Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required.</p>	1.00	Set			DSR 2012 (EL)P-23  I-5.2

14	Proving and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15mm dia G.I Pipe from earth electrode including connection with G.I thimble excavation and re-filling as required.	15.00	meter			DSR 2012 (EL)P-24 I-5.12
15	Supplying of aluminum conductor PVC insulated, PVC sheathed/xLPE inner sheathed flat steel strip armoured power cable of 1.1 KV grade conforming to IS:1554 (Part-I) 1988 or latest amended following sizes etc. Make - Havels / NICCO/GRANDLAY (a) 2x16 sqmm	30.00	Meter			Market rate
16	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size not exceeding 25 Sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required. Upto 35 sq mm	20.00	Meter			DSR 2012 P-26 I-7.1.1
17	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size not exceeding 25 sq. mm in the existing RCC / HUME / STONEWARE /METAL pipe as required Upto 35 sq mm	10.00	Meter			DSR-2012(E) P-26 I-7.5

18	Providing and fixing G.I. Pipes complete with G.I. Fitting including trenching and refilling etc (external work)  (a) 50 mm dia nominal bore	10.00	Meter			DSR-2012 (C)P-314  I-18.12.6
19	Supplying and fixing 20 amps, 415 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP,MCB in steel sheet enclosure on surface or in recess with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc as required	1	each			DSR-2012 (EL) P-14  I-2.18
20.	Supplying and making indoor 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)2x16 sq. mm(22mm)	02	Each			DSR-2012(EL) p-30  I-9.1.3

**NOTE:**

1. **The above quantification of items is for godown only and does not include office, boundary wall and road etc. These may vary from place to place as per the site conditions.**
2. **Cost estimate may be prepared by applying the local schedule of rates of PWD/CPWD or any other Govt. Authority.**
3. **Drawings of the godown, office block and the layout plan have also been uploaded for guidance.**



