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

(Based on CPWD,Schedule of rates 2016 Delhi)

**BOQ FOR LABOUR SHED** **ANNEXURE IV**

| SL. NO. | DESCRIPTION OF ITEM | QTY. | UNIT | RATE ( Rs) | Amount (Rs.) | DSR 2016 |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2(iv)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. | 20.58 | cum | 166.40 | 3,424.51 | 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 | 20.58 | cum | 125.75 | 2,587.94 | 2.25 |
| 3 | Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete. | 2.14 | cum | 917.75 | 1,963.99 | 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. | 44.00 | sqm | 7.20 | 316.80 | 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<br>1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | 5.16 | cum | 4,478.15 | 23,107.25 | 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). | 5.85 | sqm | 263.10 | 1,539.14 | 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. | 5.85 | sqm | 91.90 | 537.62 | 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 | 20.25 | sqm | 450.35 | 9,119.59 | 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 | 48.15 | sqm | 422.30 | 20,333.75 | 5.9.3 |
| 10 | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Above plinth level.<br>Thermo-Mechanically Treated bars. | 516.60 | Kg | 56.60 | 29,239.56 | 5.22.6 A |
| 11 | 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) | 5.74 | cum | 7,390.80 | 42,423.19 | 5.33A |

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| 2(iv)a | **SCHEDULE ITEMS** | | | | | |
| | **CIVIL WORKS** | | | | | |
| 12 | Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:<br>Cement mortar 1:6 (1 cement : 6 coarse sand) | 13.89 | cum | 4,751.65 | 66,000.42 | 6.1.2 |
| 13 | 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 :<br>Cement mortar 1:6 (1 cement: 6 coarse sand) | 18.27 | cum | 5,582.85 | 101,998.67 | 6.4.2 |
| 14 | 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 |
| 15 | 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 :<br>300x16 mm | 1.00 | each | 212.45 | 212.45 | 9.96.1 |
| 16 | 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 :<br>250x10 mm | 2.00 | each | 88.10 | 176.20 | 9.97.2 |
| 17 | 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 :<br>125 mm | 2.00 | each | 51.10 | 102.20 | 9.100.1 |
| 18 | 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 |
| 19 | 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 | 151.20 | kg | 113.60 | 17,176.32 | 10.11 |

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| 2(iv)a | **SCHEDULE ITEMS** | | | | | |
| | **CIVIL WORKS** | | | | | |
| 20 | 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. | 30.33 | sqm | 555.25 | 16,840.73 | 11.4 |
| 21 | 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.<br>18 mm thick. | 2.60 | sqm | 350.05 | 910.13 | 11.6.1 |
| 22 | 12mm cement plaster of mix:<br>1:6 ( 1 cement : 6fine sand) | 84.99 | sqm | 160.35 | 13,628.15 | 13.1.2 |
| 23 | 15mm cement plaster of mix:<br>1:4 ( 1 cement : 4 fine sand) | 84.99 | sqm | 200.25 | 17,019.25 | 13.2.1 |
| 24 | White washing with lime to give an even shade<br>New work(three or more coats) | 169.98 | sqm | 17.25 | 2,932.16 | 13.37 |
| 25 | Finishing walls with water proofing cement paint of required shade<br>New work (Two or more coats applied @ 3.84 kg/10 sqm). | 84.99 | Sqm | 58.80 | 4,997.41 | 13.44.1 |
| 26 | 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 |
| 27 | Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel, galvanised iron/steel works | 20.12 | sqm | 29.10 | 585.49 | 13.50.3 |
| 28 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:<br>Two or more coats on new work | 23.90 | sqm | 112.30 | 2,683.97 | 13.62.1 |
| 29 | 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:<br>(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.<br>(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 | | | | | |

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| 2(iv)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.<br>(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.<br>(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 :<br>With average thickness of 120mm and minimum thickness at khurra as 65 mm | 48.15 | sqm | 1,034.35 | 49,803.95 | 22.7 |
| | **TOTAL SCHEDULE ITEMS IN Rs.** | | | | **436,385.32** | |
| | | | | | | |
| 2(iv)b | **SCHEDULE ITEMS** | | | | | |
| | **INTERNAL ELECTRICAL WORKS** | | | | | |
| | **POINT AND SUB-MAIN WIRING** | | | | | |
| | | | | | | |
| **1** | Point wiring in steel conduit, with modular type switch 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 PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. | | | | | |
| | Group-A | 9 | Point | 659.00 | 5,931.00 | 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 | 20 | M | 237.00 | 4,740.00 | 1.7.2 |
| | 2x6Sq. mm+1x6 Sq. mm earth Wire | 15 | M | 324.00 | 4,860.00 | 1.7.4 |
| | | | | | | |
| | | | | | | |
| **3** | **S/F modular type switch/ socket :** | | | | | |
| | Supplying and fixing following modular switch/ socket on the | | | | | |
| | 5/6 amps switch | 3 | Each | 34.00 | 102.00 | 1.23.1 |
| | 15/16 amp switch | | Each | 75.00 | - | 1.23.3 |
| | 3 pin 5/6 amp socket outlet | 3 | Each | 42.00 | 126.00 | 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 conductor single core cable for loop earthing as required. | 5 | RM | 239.00 | 1,195.00 | 1.5 |
| | | | | | | |
| | | | | | | |
| | **CONDUITING** | | | | | |
| | | | | | | |
| 5 | S/F steel conduit : Supplying and fixing of following sizes of | | | | | |
| | 25 mm | 20 | RM | 147.00 | 2,940.00 | 1.20.2 |
| | | | | | | |
| | **Installation of Light fittings, fans and fixtures** | | | | | |
| | | | | | | |

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| 2(iv)a | **SCHEDULE ITEMS** | | | | | |
| | **CIVIL WORKS** | | | | | |
| 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. | 9 | No. | 100.00 | 900.00 | 1.41 |
| | **Total of DSR 2016 Items ( In Rs)** | | | | **20,794.00** | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2(iv)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 | 6 | No. | 750.00 | 4,500.00 | 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 | 3 | No. | 1,750.00 | 5,250.00 | |
| | **Total of Market Rate Items ( In Rs )** | | | | **9,750.00** | |
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