




| | | DAFFPL | | | | | | | |
|---------------------------------------|---|--|------|-----------------|------------------|-------|----------------------|----------------------------|--|
| | | BOQ FOR CONTROL ROOM & ALLIED WORKS | | | | | | | |
| | | SUPPLY (A) | | | | | | | |
| | | | | | | REV.1 | Date | | |
| | | | | | | REV.2 | Date | | |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) | |
| PART - I CONTROL ROOM | | | | | | | | | |
| REINFORCEMENT & EMBEDMENTS | | | | | | | | | |
| 1 | Supply of high yield strength deformed bars as per IS: 1786 and 18 SWG annealed wire for all R.C.C works. Thermo Mechanically Treated Bars Fe- 500 grade, Conforming to IS1786 Rebars to be used: i) TISCO ii) SAIL iii) RINL(VIZAG STEEL) iv) ESSAR v) JINDAL STEEL AND POWER | 12 | Ton | | | | | | |
| 2 | ALUMINIUM DOORS, WINDOWS & Ventilator Supply of Powder coated Aluminium Panelled door single / double leaf door, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections fabricated by standard manufacturer like Jindal Aluminium make along with Door frames 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 & sides with with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/paneling, C.P. brass/stainless steel screws including fixing all complete as per drawing & the directions of Engineer-in-charge. (minimum thickness of powder coating is 50 micron). Door Sizes are as follows: i 1800 X 2400 ii 1200 X 2200 iii 900 X 2200 iv Window of 1000 X 1200 v Flexible louvered type Ventilator of 1000 X 600 size | | | | | | | | |
| 3 | Supply of Saint Gobain make glazing glass in aluminium door, window and partitions etc. complete as per the architectural drawings and the directions of engineer-in-charge including aluminium snap beading. i With float glass panes of 4.0 mm thickness ii With float glass panes of 5.5 mm thickness | | | | | | | | |
| 4 | Supply of aluminium handles ISI marked anodized (anodic coating not less than grade AC10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete : 125 mm | 9 | Each | | | | | | |
| 5 | Supply of 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 | 9 | Each | | | | | | |
| 6 | Supply of chrome plated brass hanging type floor door stopper with necessary screws, etc. complete. | 6 | Each | | | | | | |
| 7 | Supply of 100mm brass locks (best make of approved quality) for aluminium doors complete | 5 | Each | | | | | | |
| 8 | Supply of over head hydraulic door closers confirming to IS-3564 of approved make & quality as directed by Engineer. | 7 | Each | | | | | | |
| 9 | Supply of floor mounted Hydraulic door closer confirming to IS-3564 of approved make & quality as directed by engineer | 4 | Each | | | | | | |
| PVC DOOR | | | | | | | | | |
| 10 | Supply of factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogeneous fine cellular structure having smooth outer integrat skin having 62mm width and 32mm thickness, frame will be mitred & jointed with self driven self tapping screws of size 38mm x 4mm & PVC solvent cement, including suitable dia and length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge. | 10 | RM | | | | | | |
| 11 | Supply of factory made 30mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75mm x 30mm having wall thickness 5mm. The styles and rails shall have one side wall thickness of 15mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with MS tubes of size 33mm x 17mm x 1mm painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and rails with a cavity to receive single piece extruded 5mm PVC sheet as panel. The styles and rails shall be mitred cut and joint with help of PVC solvent cement and self tapping screws. Single piece extruded solid PVC rail of size 100mm x 30mm with wall thickness 5mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100mm x 8mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Non Decorative finish | 5 | Sq.M | | | | | | |
| FLOORS & BASES | | | | | | | | | |
| 12 | Supply of fully vitrified floor tiles in different sizes (thickness as per manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, complete. Size of Tiles 60x60 Cm. | 47 | Sq.M | | | | | | |
| 13 | Supply of 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness as specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge (including pointing in white cement mixed with pigment of matching shade). | 20 | Sq.M | | | | | | |
| 14 | Supply of removable false flooring with fire resistant particle board panels bonded by phenol formaldehyde of size 600x600x35mm with all panel edges finished to a tolerance of +/- 0.2 mm including 2 mm thick anti static PVC top and lipping, supporting arrangement as per specification, drawings and engineer in charge. | 79 | Sq.M | | | | | | |
| 15 | Supply of chemical resistant (Acid & Alkali) Tiles as per IS 4457 of minimum thickness 25 mm thick in flooring/Dado. The tiles shall be abrasion resistant and durable as per specification. | 41 | Sq.M | | | | | | |
| SANITARY | | | | | | | | | |
| 16 | European W.C Supply of white vitreous china extended wall mounting water closet (Hindware - Mario - Cat.no.20084 (P-10.5) ; Cist.21052 or approved equivalent) including providing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete | 2 | Each | | | | | | |
| 17 | Wash hand basin Supply of wash basin (Jaquar - CNS-WHT-701 or approved equivalent) with C.I. brackets, 15 mm C.P. brass pillar tap (Jaquar - L.YR-38051B Single Lever or approved equivalent) ,32 mm C.P. brass waste of standard pattern. | 1 | Each | | | | | | |
| 18 | Supply of G.I. inlet connection for flush pipe connecting with W.C. pan. | 2 | Each | | | | | | |
| 19 | Supply of P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. With Flexible pipe of 40 mm dia | 1 | Each | | | | | | |
| 20 | Mirror Supply of mirror of superior glass (of approved quality) & of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm | 1 | Each | | | | | | |
| 21 | Toilet paper holder Supply of Toilet paper holder (Jaquar - Bath accessories - Queens - AHS-1553) C.P. Brass | 2 | Each | | | | | | |

| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> DAFFPL BOQ FOR CONTROL ROOM & ALLIED WORKS SUPPLY (A) </div> </div> | | | | | | | | | |
|--|--|-----|------|-----------------|------------------|-------|----------------------|----------------------------|--|
| | | | | | | REV.1 | Date | 5/2/2018 | |
| | | | | | | REV.2 | Date | 17/4/2018 | |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) | |
| 22 | Liquid soap container Supply of PTMT liquid soap container (Jaquar -Bath accessories - AKP-CHR-35735P or approved equivalent) 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms. | 1 | Each | | | | | | |
| 23 | Towel ring Supply of PTMT towel ring (Jaquar - Bath accessories - AKP-CHR-35751P or approved equivalent) with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality and colour. Weighing not less than 88 gms. | 1 | Each | | | | | | |
| 24 | Towel Rail Supply of PTMT towel rail (Jaquar - Bath accessories - AKP-CHR-35711P or approved equivalent) 600 mm long. | 1 | Each | | | | | | |
| 25 | Coat hook Supply of PTMT coat hook (Jaquar - ACN-1161N Double Coat Hook or approved equivalent) with concealed fittings arrangement of approved quality | 2 | EACH | | | | | | |
| 26 | Supply of unplasticised Rigid PVC soil, waste and vent pipes (Prince or equivalent) conforming to IS:13592 Type B including fitting conforming to IS:14735 such as, but not limited to, all type of bends, tees, Ys with or without door, couplers, unions, reducers, access/socket plug, ring, busings, gully, floor, nahni trap with jali, etc., as required, all necessary accessories required for making it water tight, complete in all respect, Single socketed pipes. | | | | | | | | |
| | i 75 mm dia nominal bore | 2 | RM | | | | | | |
| | ii 110 mm dia nominal bore | 35 | RM | | | | | | |
| 27 | Supply of G.I. pipes complete with G.I. fittings B class 40 mm dia. nominal bore | 10 | RM | | | | | | |
| 28 | Supply of G.I. Pipes complete with G.I. fittings and clamps | | | | | | | | |
| | i B class 15 mm dia nominal bore | 5 | RM | | | | | | |
| | ii B class 20 mm dia nominal bore | 5 | RM | | | | | | |
| 29 | Supply of brass bib cock of approved quality : 15 mm nominal bore (Jaquar- ARI-CHR-39037) | 5 | Each | | | | | | |
| 30 | Supply of brass stop cock of approved quality : 15 mm nominal bore (Jaquar- CON-CHR-053KN) | 1 | Each | | | | | | |
| 31 | Supply of gun metal gate valve with C.I. wheel of approved quality (screwed end) : 40 mm nominal bore | 2 | Each | | | | | | |
| 32 | Supply of gun metal non return valve of approved quality (screwed end) : 40 mm nominal bore, horizontal bore | 2 | Each | | | | | | |
| 33 | Supply of ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 15 mm nominal bore | 2 | Each | | | | | | |
| 34 | Supply of polyethylene water storage tank ISI : 12701 marked with cover and suitable Locking arrangement. Capacity 1000 Liter | 1 | Nos | | | | | | |
| 35 | Supply of non-pressure NP3 class (light duty) R.C.C. pipes : Light Duty | | | | | | | | |
| | i 100 mm dia. R.C.C. pipe | 2 | RM | | | | | | |
| | ii 150 mm dia. R.C.C. pipe | 5 | RM | | | | | | |
| 36 | Supply of unplasticised PVC connection pipe with brass unions : 30 cm length, 15mm nominal bore | 2 | Each | | | | | | |
| 37 | Supply of white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings | 1 | Each | | | | | | |
| MISCELLANEOUS | | | | | | | | | |
| 38 | Supply of false ceiling with TRAC 150 F of Interarch (or equivalent) coil coated (Pre painted) steel false ceiling system comprising of 150 mm wide X 17 mm deep roll formed out of 0.50 mm thick polyester coated galvanised steel panels, fixed on steel runner of 34.5 mm width X 48 mm deep manufactured out of 0.60 mm thick pre coated galvanised steel with rigid suspension of 20X20X0,5 mm fixed with steel brackets/clips etc. Panel shall be factory cut to provide minimum joints. | 135 | Sq.M | | | | | | |
| PART - 2 ELECTRICAL WORKS | | | | | | | | | |
| 39 | Power Distribution Board (IP 55): Supply of Weather Proof 125A, 415V, 3Ph & N, 50HZ sheet steel enclosure flush mounting to wall power distribution board for lighting & power load of the following incoming and outgoing feeders including all required hardwares . 1no.-Incomer 125A MCCB with ELCB (100mA Sensitivity). 4Nos 20A TPN & 3 Nos DP 32A MCB 6Nos 10A SPN & 9Nos 20A SPN MCB | 1 | Nos | | | | | | |
| 40 | Supply of 300 mm sweep, heavy duty, weather Proof, single phase exhaust fan with Louvers complete with motor, cable gland, shutter, louver, bird catcher, mounting bracket, mounting frame (metallic), hardware etc. and conforming to IS. | 5 | Nos | | | | | | |
| LIGHTING FIXTURES & ACCESSORIES | | | | | | | | | |
| 41 | Supply of Weather proof LED Lighting Fixtures & Accessories .(All Lighting fixtures shall be provided with required no. of single compression nickle plated brass cable glands, stopping plug and all required hardwares.) | | | | | | | | |
| 41.1 | Supply of 36 W decorative type mirror optics recessed mounting LED light fixture complete with all its accessories suitable for Recessed type mounting arrangement. | 24 | Nos | | | | | | |
| 41.2 | Supply of 2x18W industrial type LED light fittings stanchion mounting complete with all its accessories | 2 | Nos | | | | | | |
| SWITCH SOCKET / SWITCH (MODULER TYPE): | | | | | | | | | |
| 42 | Lighting ON/OFF Switch, Switch Socket & Switch Board | | | | | | | | |
| 42.1 | Supply of Modular type switch board-6module box-90x220. having 4Nos switch & 1 Nos 240V 5A/10A socket with switch | 1 | Nos | | | | | | |
| 42.2 | Supply of Modular type switch board-8 module box-160x150. having 5Nos switch & 1 Nos 240V 5A/10A socket with switch | 1 | Nos | | | | | | |
| 42.3 | Supply of Modular type switch board-4module box having 2Nos switch & 1 Nos 240V 5A/10A socket with switch | 1 | Nos | | | | | | |
| 42.4 | Supply of Modular type switch board, 2no. 10A lighting ON-OFF switch -2 module box-90x95. | 1 | Nos | | | | | | |
| 42.5 | Supply of 240V , 3Pin metal clad, 20A socket fitted with 20A SP MCB brand type 18119 of "Roma" make or equivalent make, sw. socket brand type 36165 and 20A metal clad plug top with chain cover " Roma " brand having code no. 5820 or equivalent make of white colour.for window /split AC-3module-90x120 | 5 | Nos | | | | | | |
| 42.6 | Supply of Modular type switch board having 1 no. Modular type switch with 13/15A Modular type 6 PIN socket ROMA type ANCHOR or equivalent make - 90 x 120 MM | 3 | Nos | | | | | | |
| 42.7 | Supply of 6A, 3 pin socket with ISI mark, having code no. 21102 & 6A, 3 pin plug top having code no. 21215 of 'ROMA' type of Anchor make or equivalent make, MS box with front plate for exhaust fan. (2 modules - 90 x 95). | 5 | Nos | | | | | | |
| 42.8 | Supply of Flameproof type switch with 13/15A Modular type 6 PIN socket ROMA type ANCHOR or equivalent make | 1 | Nos | | | | | | |
| PVC CONDUIT AND JUNCTION BOX FOR CONDUITING | | | | | | | | | |
| PVC rigid conduit of min. 2 mm thick of wall heavy duty type & as per latest IS (with bends, reducers, couplers etc.) of following sizes:- | | | | | | | | | |
| 43 | Supply of 25mm Dia. PVC Rigid Conduit | 120 | Mtr | | | | | | |
| 44 | Supply of PVC (Rigid) - 4 way Junction Boxes of ISI mark, suitable for 25 mm dia rigid PVC pipe entry. | 24 | Nos | | | | | | |
| 45 | Supply of 1.1KV grade PVC, FRLS/Non FRLS type armoured/unarmoured cable and industrial weatherproof/weatherproof & flameproof double compression cable gland with gland cap for termination of cables for mentioned cable sizes complete with locknuts, sealing washers, shrouds, etc including suitable crimped type solderless tinned copper lugs as per specifications and drawings. | | | | | | | | |



|  | | DAFFPL BOQ FOR CONTROL ROOM & ALLIED WORKS SUPPLY (A) | | | | | |  | |
|--|--|--|------|-----------------|------------------|-------|----------------------|---|--|
| | | | | | | REV.1 | Date | 5/2/2018 | |
| | | | | | | REV.2 | Date | 17/4/2018 | |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) | |
| 45.1 | 3CX2.5 sq mm Cu unarmoured cable | 150 | Mtr | | | | | | |
| 45.2 | 3.5C x 70 sq mm Al armoured FRLS cable | 150 | Mtr | | | | | | |
| 45.3 | 4C x 4 sq mm Cu armoured cable | 50 | Mtr | | | | | | |
| 45.4 | Weatherproof Gland with required lugs and accessories suitable for cable mentioned in 7.1 | Unit Rate | Nos | | | | | | |
| 45.5 | Weatherproof & Flameproof Gland with required lugs and accessories suitable for cable mentioned in 7.2 | 2 | Nos | | | | | | |
| 45.6 | Weatherproof Gland with required lugs and accessories suitable for cable mentioned in 7.3 | Unit Rate | Nos | | | | | | |
| EARTH PIT | | | | | | | | | |
| 46 | Supply of Advance Earthing System (Maintenance free earthing system) along with earth pit cover, Cu Clamps including all required accessories and indicator plate: 60mmDiax3.0mts long,made from M.S in accordance to IS 1909 & IS 3043,along with 75 kgs.of premium Ground improving compound as per IS 3043 duly modified for excellent electrical conductivity & moisture retaining capacity. | 4 | Nos | | | | | | |
| CABLE TRAY | | | | | | | | | |
| 47 | Supply of FRP/GRP Ladder / perforated type cable tray with cover of following sizes with all the accessories like bends, tees, reducers, elbow, joints, etc. and fixing hardware including supply of all materials as per specifications, drawings. | | | | | | | | |
| 47.1 | 600 mm wide-100mm height-4 mm thick Ladder type cable tray | Unit Rate | MTR | | | | | | |
| 47.2 | 300 mm wide-50mm height-4 mm thick Ladder type cable tray | 120 | Mtrs | | | | | | |
| 47.3 | 200 mm wide x 50 mm height - 4 mm thick - Perforated type | 25 | Mtrs | | | | | | |
| 48 | Supply of FRP Covers for following sizes FRP Ladder / perforated type cable tray | | | | | | | | |
| 48.1 | 600 mm wide-100mm height-4 mm thick Ladder type cable tray | Unit Rate | MTR | | | | | | |
| 48.2 | 300 mm wide-50mm height-4 mm thick Ladder type cable tray | Unit Rate | MTR | | | | | | |
| 48.3 | 200 mm wide x 50 mm height - 4 mm thick - Perforated type | Unit Rate | MTR | | | | | | |
| 48.4 | 150 mm wide x 50 mm height-4 mm thick - Perforated type | Unit Rate | MTR | | | | | | |
| 48.5 | 100 mm wide x 30 mm height -4 mm thick - Perforated type | Unit Rate | MTR | | | | | | |
| 48.6 | 50 mm wide x 30 mm height -3 mm thick - Perforated type | Unit Rate | MTR | | | | | | |
| 49 | Supply of G.I. ladder type Cable Tray with cover 100x30x2mm thick runners, Rungs at 300mm spacing, along with required accessories like bends, tees, reducers, elbow, joints, coupler plate etc with stainless Hard-ware ,Hold on clamps With stainless Hard- ware , suitable for following G.I. Cable Tray and Tray cover | | | | | | | | |
| 49.1 | 600mm Wide Heavy Duty Ladder type cable tray and cover | Unit Rate | MTR | | | | | | |
| 49.2 | 300mm Wide Heavy Duty Ladder type cable tray and cover | Unit Rate | MTR | | | | | | |
| 49.3 | 200mm Wide Heavy Duty Perforated type cable tray and cover | Unit Rate | MTR | | | | | | |
| 49.4 | 150mm Wide Heavy Duty Perforated type cable tray and cover | Unit Rate | MTR | | | | | | |
| 49.5 | 50mm Wide Heavy Duty Perforated type cable tray and cover | Unit Rate | MTR | | | | | | |
| 50 | Supply of Cu/GI earth strip, lugs of following sizes including handling, transportation to site as per attached specifications of this tender. | | | | | | | | |
| 50.1 | 50 x 6 mm GI Strip | Unit Rate | MTR | | | | | | |
| 50.2 | 40 x 5 mm GI Strip | Unit Rate | MTR | | | | | | |
| 50.3 | No.8 SWG Solid GI wire | Unit Rate | MTR | | | | | | |
| 50.4 | 50 x 6 mm Cu Strip | Unit Rate | MTR | | | | | | |
| 50.5 | 25 x 6 mm Cu Strip | Unit Rate | MTR | | | | | | |
| 50.6 | 16 sq.mm Cu. PVC flexible wires | Unit Rate | MTR | | | | | | |
| 50.7 | 4 sq.mm Cu. PVC flexible wires | Unit Rate | MTR | | | | | | |
| 50.8 | 6 sq.mm Cu. PVC flexible wires | Unit Rate | MTR | | | | | | |
| 50.9 | Earthing Lugs (AL) suitable for No.8 SWG Solid GI wire | Unit Rate | Nos | | | | | | |
| 50.10 | Earthing Lugs (AL) suitable for 4 to 16 sq. mm Cu PVC flexible wires | Unit Rate | Nos | | | | | | |
| 51 | Supply of Cu/GI Earth Bus bars of following sizes | Unit Rate | Nos | | | | | | |
| 51.1 | GI Earth Bus bars (size: 390x50 x12mm thick) | Unit Rate | Nos | | | | | | |
| 51.2 | Cu Earth Bus bars (size: 250x50 x6mm thick) | Unit Rate | Nos | | | | | | |
| PART - 3 CABLE TRAY SUPPORT | | | | | | | | | |
| CIVIL WORKS | | | | | | | | | |
| 52 | Supply of high yield strength deformed bars as per IS: 1786 and 18 SWG annealed wire for all R.C.C works. Thermo Mechanically Treated Bars Fe- 500 grade,Conforming to IS1786 | 6 | Ton | | | | | | |
| STRUCTURAL STEEL WORKS | | | | | | | | | |
| 53 | Supply of structural steel as per tender specifications. Structural bolts and fixtures shall be as per IS:4000, class 8.8 Type-1. No extra payment shall be made for weight of bolt arrangement and welds and the rates shall be deemed inclusive of these. The unit of payment shall be on weight as per final approved fabrication drawing. | 27 | Ton | | | | | | |
| 54 | Supply of Foundation Bolt class 4.6 including nuts, washers, plates; diameter upto 20 mm and length up to 1.0 meter. | 240 | Kg | | | | | | |
| TOTAL | | | | | | | | | |
| Total Amount (A) including taxes in words: | | | | | | | | | |
| Notes: | | | | | | | | | |
| 1. All supply and work shall be in line withtender specifications, drawings and instructions of the Engineer -in-Charge. | | | | | | | | | |
| 2. Construction power, water, loading and boarding, Site Storage with watch and ward, receipt, unloading, shifting material to store and internal shifting to site shall be included in Vendor's scope. | | | | | | | | | |
| 3. The unit rates as quoted to arrive at above total price shall be firm and inclusive of all duties, levies, transportation etc. No separate payment shall be made for site mobilization / demobilization, insurance etc. | | | | | | | | | |
| 4. The Schedule of Rates should be read with all other sections of the tender documents. | | | | | | | | | |
| 5. The tenderer shall be deemed to have studied the drawings, specifications and the details of work to be done within the time schedule and to have acquainted with the conditions prevailing at site. Site visit is mandatory. | | | | | | | | | |
| 6. The quantities shown against the various items are only indicative of the quantum of work and it may vary to any extent. Billing will be done as per actual. | | | | | | | | | |
| 7. Vendor to make measurements at site before dispatch of any material. | | | | | | | | | |
| 8. The rate quoted shall be inclusive of all work as mentioned in the scope of work in tender documents. | | | | | | | | | |
| 9. In case of any rework due to faulty workmanship or any defects occur or modifications are required no extra claims for such works/supply shall be entertained. | | | | | | | | | |
| Signature of Bidder along with company seal | | | | | | | | | |



|  DAFFPL BOQ FOR CONTROL ROOM & ALLIED WORKS CONSTRUCTION/ERECTION/INSTALLATION, TESTING & COMMISSIONING (B)  | | | | | | | | |
|---|--|-----|------|-----------------------|------------------|-------|----------------------|----------------------------|
| | | | | | | REV.1 | Date | 5/2/2018 |
| | | | | | | REV.2 | Date | 17/4/2018 |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | BASIC UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) |
| PART - I CONTROL ROOM | | | | | | | | |
| CIVIL WORKS | | | | | | | | |
| A - EARTHWORK | | | | | | | | |
| | a) The prices for all excavations are to include for removing and clearing away all shrubs, bushes, roots etc. | | | | | | | |
| | b) The prices are also to include for all leveling and ramming foundation beds, trimming of sides and bottom grading to proper level as required. | | | | | | | |
| | c) Removal and carrying shall include for all loading, unloading and handling as may be necessary and also all necessary means of transport (Mechanical or manual as required). | | | | | | | |
| | d) The prices are also to include removal of water accumulated due to subsoil seepage, rains or from any kind of sources, either by pumping or by bailing or by any suitable method like well point dewatering etc. if reqd. No extra payment shall be made for dewatering. This also includes for draining out the pumped water to nearby available drainage system. | | | | | | | |
| | e) Normally payment of earth work shall be made according to the sizes of PCC for trenches/ pits as contemplated in the working drawings. Extra due to widening or deepening of trenches / pits shall not be paid for except for the cases where water / acid proofing would be accepted as per working drawings in such case the mode of measurement shall be as per IS : 1200 | | | | | | | |
| | f) Nothing extra shall be paid for sorting /screening of excavated materials to obtain good earth for filling. | | | | | | | |
| | g) Nothing extra shall be paid on account of any lift for disposal of excavated materials/surplus earth. | | | | | | | |
| | h) Where excavation are made in excess of the depth required, the contractor shall at his own expense fill up to the desired level with lean concrete of mix 1:5:10 (1 Cement: 5 Coarse sand: 10 Graded stone aggregate 40 mm nominal size | | | | | | | |
| | i) Rate shall include Royalty, Taxes, etc., levied by the local authorities, all transportation, loading and unloading, etc., and nothing extra will be paid on this account. | | | | | | | |
| | j) Soft / loose soil also includes filled up earth / moorum. | | | | | | | |
| | k) The filling for earth / moorum or sand shall be done in layers not exceeding 20 cm in thickness (consolidated) with by Suitable means to achieve 90% dry density at Optimum Moisture Content corresponding to standard Proctor test & vibro compactor in confined spaces. | | | | | | | |
| 1 | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means for foundations, trenches, pipelines, storm water drains etc. including setting out, clearing and grubbing, removal of debris, dewatering if required, strutting, shoring, dressing the sides, levelling of grade and ramming the bottom, stacking up to initial lead in & around premises in all types of soil including concrete and boulder work but excluding RCC floor, for all leads and lifts. | 268 | Cu.M | | | | | |
| 2 | Filling available excavated earth (excluding rock) under floors and foundations in layers not exceeding 20cm in depth, consolidation each deposited layer by ramming and watering, within premises for all Lift and Lead | 196 | Cu.M | | | | | |
| 3 | Earth work in supply & filling for all works with good quality borrowed earth, free from vegetation, organic matters, boulders with all leads and lifts including cost of transportation, loading/ unloading, breaking clods, watering etc., complete as per directions of Engineer -in- Charge.The measurement shall be made on the basis of calculated compacted volume of earth, based on the contour surveys of level on site before filling and spot level after filling to be taken jointly with contractor after execution of work. | 1 | Cu.M | | | | | |
| CONCRETE WORK/ REINFORCED CONCRETE WORK | | | | | | | | |
| | a) The prices for concrete in beds and slabs are to include for laying on any type of sub grade, laying to falls, or cambers and for preparing surfaces to receive concrete. | | | | | | | |
| | b) All concrete surfaces shall be finished to a fair face to give a smooth and even surface. Nothing extra shall be paid on this account. | | | | | | | |
| | c) The prices are to include leaving pockets, cut outs and holes and to provide wooden boxes or any other suitable arrangements in RCC for bolt holes in slab, beams, walls, foundation of equipments etc. as per approved working drawing. (Nothing extra shall be paid on this account). | | | | | | | |
| | d) No deduction in RCC quantity shall be made for pockets and nothing extra shall be paid for providing pockets as mentioned in para 'C' above. | | | | | | | |
| | e) Measurement of opening in concrete work/RCC work: For measurement of openings in concrete work / RCC works, shall be as per IS: 1200 Part-III. | | | | | | | |
| | f) All pocket holes are to be properly covered by suitable means so that dirt, rain water etc. etc., should not enter the pockets/holes etc. (Nothing extra shall be paid on this account.) | | | | | | | |
| | g) Threads of bolts etc. which have already been fixed in the pockets are to be greased and polythene sheet properly covered with gunny bags to protect it from damages from all sources. (Nothing extra shall be paid on this account.) | | | | | | | |
| | h) The prices shall include for all rebating, trotting, chamfering weathering, molding etc. to accord with the details shown on the approved working drawings | | | | | | | |
| | i) Nothing extra shall be paid for any intricate concrete work for foundations of equipments and machinery (dynamic/static), RCC wall and other superstructure works or any delay in concreting in small and thin sections in PCC or RCC works. | | | | | | | |
| | j) The prices for concrete are to include for hoisting and / or lowering to any height and/or depth required and in any type of form work, packing around reinforcement where required and finishing the surfaces, to fair and even surface. | | | | | | | |
| | k) The prices shall include working up or hacking of concrete surface for providing keys for further concrete work and shall also include all plane, rebated or grooved constructional and other joints. | | | | | | | |
| | l) The design mixes of all controlled concrete of various grades shall be established by the contractor on the basis of weigh batching, at the beginning of work. In all concrete / RCC work graded coarse aggregate shall be used. Any concrete work with honey comb shall be rejected and the work has to be redone by the contractor at his own cost. | | | | | | | |
| | m) Concrete admixtures for workability if necessary, may be used in RCC if decided by Engineer-in-charge. No extra payment for mixing etc, shall be made on this account. | | | | | | | |
| | n) The prices are also to include the removal of water caused by rains/seepage etc. either pumping or by bailing out or by special means like well point dewatering etc. that may accumulate in the trenches and foundation pits etc. | | | | | | | |
| | o) The prices are to include the supply of cement by the contractor. | | | | | | | |
| | p) Anti shrinkage compound used in grouting shall not be paid separately. | | | | | | | |
| | q) Desired design mix shall be got approved from Engineer-in charge before commence of casting | | | | | | | |
| | r) The source of supply for sand and stone chips shall be approved by DAFFPL | | | | | | | |
| | s) Approved brand of 43 grade cement shall be used for preparing design mix & cement shall be tested as per relevant IS Codes. Cement supply shall be in contractor's scope. | | | | | | | |
| | Following additional points to be noted for Ready Mix Concrete(RMC) | | | | | | | |
| | a) Any loss of material shall be contractor's responsibility. | | | | | | | |
| | b) Desired design mix shall be got approved from Engineer-in charge before Casting. | | | | | | | |
| | c) Any other taxes as levied by Govt. from time to time shall be deemed to be inclusive in the contract. | | | | | | | |
| | d) Approved brand shall be used for preparing RMC & Cement shall be tested as per relevant IS Codes. Cement supply shall be in contractor's scope. | | | | | | | |
| | e) The rate includes for using Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete,improve workability without impairing strength and durability as per direction of Engineer-in-charge. Cement content in RCC shall not be less than 410 kg per Cu. M | | | | | | | |





| DAFFPL | | BOQ FOR CONTROL ROOM & ALLIED WORKS | | CONSTRUCTION/ERECTION/INSTALLATION, TESTING & COMMISSIONING (B) | | REV.1 | Date | |
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| | | | | | | REV.2 | Date | |
| | | | | | | | 5/2/2018 | |
| | | | | | | | 17/4/2018 | |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | BASIC UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) |
| | a) Cement brand to be used: i) Ultratech Cement ii) J.K. Cement iii) Coromandal King iv) Birla Cement ACC v) Ambuja Cement vi) Dalmia Cement vii) Top Cement | | | | | | | |
| B. PLAIN CEMENT CONCRETE | | | | | | | | |
| | Providing and laying Ready Mix Cement Concrete in foundation, footings and base for columns/walls including proportioning, mixing in mechanical mixer, laying vibration by means of mechanical vibrators, curing etc. complete including the cost of shuttering:- | | | | | | | |
| 5 | Concrete of mix 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | 14 | Cu.M | | | | | |
| 6 | Concrete of mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) | 11 | Cu.M | | | | | |
| C. REINFORCED CEMENT CONCRETE | | | | | | | | |
| IN FOUNDATION & PLINTH: | | | | | | | | |
| 7 | Providing and laying in position, RMC M-25 grade for reinforced cement concrete work, using cement as per approved design mix, including cost of centering, shuttering but excluding the reinforcement, including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @410 kg/cum.) | 53 | Cu.M | | | | | |
| IN SUPERSTRUCTURE: | | | | | | | | |
| 8 | Providing and laying in position, machine batched, machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, including floors. Floors are to be cast in the panel of max 3meter x 3meter including integral smooth finish and painting side surfaces with two coats of bitumen paint of approved quality, complete in all respects as per direction of Engineer-in-Charge, using cement as per approved design mix, including pumping of concrete to site of laying and cost of centering, shuttering but excluding the reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @410 kg/cum.) | 38 | Cu.M | | | | | |
| REINFORCEMENT & EMBEDMENTS | | | | | | | | |
| | a) Wastage in cutting will not be paid for. Only steel actually fixed in position will be paid by the linear measurement i/c hooks, chairs, dowels and laps. Only authorized hooks and laps approved in bar bending schedule shall be paid. Lapping of bars will be allowed only where the required bar length exceeds the standard lengths available. All other laps provided unless otherwise specified in the drawings shall not be measured and paid for. Weight of binding wire shall not be measured for payment. | | | | | | | |
| | b) Reinforcement are to be tack welded in addition to binding by 18 SWG annealed wire wherever necessary to impart fixity. Bars of 28 mm dia & above shall also be provided with stitch weld in additions to binding with annealed iron wire and nothing extra will be paid for stitch welding. Stitch welding shall be done as per IS specifications. No extra claim shall be entertained on this account. | | | | | | | |
| 9 | Cutting, bending, hoisting, placing in position with proper precast concrete block cover and binding with 18 SWG annealed wire, high yield strength deformed bars as per IS: 1786 for all R.C.C works including all necessary handling at all heights and depths complete in all respects and as per direction of the Engineer-in-Charge. | 12 | Ton | | | | | |
| ALUMINIUM DOORS & WINDOWS | | | | | | | | |
| 10 | Fixing of aluminium doors, windows, ventilators and partitions along with Door frames, 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 & sides with with required EPDM rubber/neoprene gasket etc. aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/paneling, C.P. brass/stainless steel screws including fixing all complete as per drawing & the directions of Engineer-in-charge. Door Sizes are as follows: 1800 X 2400 1200 X 2200 900 X 2200 Window of 1000 X 1200 Flexible louvered type Ventilator of 1000 X 600 size | | | | | | | |
| | | 1 | Nos | | | | | |
| | | 3 | Nos | | | | | |
| | | 1 | Nos | | | | | |
| | | 1 | Nos | | | | | |
| | | 1 | Nos | | | | | |
| 11 | Fixing glazing glass in aluminium door, window, shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge including aluminium snap beading. i) With float glass panes of 4.0 mm thickness ii) With float glass panes of 5.5 mm thickness | 1 | Sq.M | | | | | |
| | | 50 | Sq.M | | | | | |
| 12 | Fixing aluminium handles with necessary screws etc. complete : 125 mm | 9 | Each | | | | | |
| 13 | Fixing aluminium tower bolts with necessary screws etc. complete : 250x10 mm | 9 | Each | | | | | |
| 14 | Fixing chrome plated brass hanging type floor door stopper with necessary screws, etc. complete. | 6 | Each | | | | | |
| 15 | Fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete | 5 | Each | | | | | |
| 16 | Fixing of over head hydraulic door closers as directed by Engineer. | 7 | Each | | | | | |
| 17 | Fixing floor mounted Hydraulic door closer as directed by engineer | 4 | Each | | | | | |
| PVC DOOR | | | | | | | | |
| 18 | Fixing of factory made door frame (single rebate), frame will be mitred & jointed with self driven self tapping screws of size 38mm x 4mm & PVC solvent cement, including fixing the frame to wall with suitable dia and length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge. | 10 | RM | | | | | |
| 19 | Fixing of factory made 30mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75mm x 30mm having wall thickness 5mm. The styles and rails shall have one side wall thickness of 15mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with MS tubes of size 33mm x 17mm x 1mm painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and rails with a cavity to receive single piece extruded 5mm PVC sheet as panel. The styles and rails shall be mitred cut and joint with help of PVC solvent cement and self tapping screws. Single piece extruded solid PVC rail of size 100mm x 30mm with wall thickness 5mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100mm x 8mm complete as per manufacturer's specifications and direction of Engineer-in-charge Non Decorative finish | 5 | Sq.M | | | | | |
| FINISHING | | | | | | | | |
| | a) The prices are to include for work at any height / depth and for all necessary scaffolding etc. as required. | | | | | | | |
| | b) The prices shall also include for making to form key for plaster and for all work in narrow width formed angles, chamfered external angles and for making good the faces. | | | | | | | |

|  | | <p style="text-align: center;">DAFFPL BOQ FOR CONTROL ROOM & ALLIED WORKS CONSTRUCTION/ERECTION/INSTALLATION, TESTING & COMMISSIONING (B)</p> | | | | | |  | |
|---|---|--|------|-----------------------|------------------|-------|----------------------|---|--|
| | | | | | | REV.1 | Date | 5/2/2018 | |
| | | | | | | REV.2 | Date | 17/4/2018 | |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | BASIC UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) | |
| | c) Plastering shall be measured in sq. metre area of the surface to be plastered, as per IS: 1200 (Part XII). The rate shall include erecting and removal of scaffolding all labour, all materials, equipment, plants, tools and all incidental expenses to complete plastering, pointing, rubbing out joints, cleaning, wetting, filling with cement mortar, troweling etc. and making of drip moulds, grooves, vattas, bands etc. including curing. | | | | | | | | |
| | d) The prices are to include the supply of cement at site by the contractor. | | | | | | | | |
| | e) Water proofing compound in proportion recommended by manufactures shall be used in all Plaster works for which no separate payment will be done. | | | | | | | | |
| | f) Sand used for plastering shall be from approved sources. | | | | | | | | |
| 20 | Providing and laying cement plaster on surfaces with Coarse sand including curing etc. | | | | | | | | |
| | i) 12 mm Cement plaster of mix1:4 (1 cement: 4 coarse sand) | 410 | Sq.M | | | | | | |
| | ii) 20 mm Cement plaster of mix1:4 (1 cement: 4 coarse sand) Providing and applying 20 MM thick cement plaster to all external surfaces and at all levels in two coats with base coat of 12 mm thick in CM 1:5 & finish coat of 8 mm thick in CM 1:3 including finishing the surface to uniform rough texture (sponge finish) by applying neat coat of cement including staging, curing etc complete as per technical specifications and site directions complete. Note: a) Hacking of RCC surfaces shall be done when the concrete is green in order to provide key to plaster. b) Plastering shall be done using 1 Kg of water proofing compound to every bag of cement used. c) The above cost includes the rates for making grooves, Plaster Band, Elevation Plaster Treatment etc in any shape & size in plaster or as directed by EIC. | 189 | Sq.M | | | | | | |
| | iii) Providing and laying 6mm thick cement plaster on surfaces with fine sand including curing etc. 6mm thick plaster of mix 1:3 (1 cement: 3 fine sand) | 50 | Sq.M | | | | | | |
| 21 | White washing with 3 or more coats with lime to give an event shade. The rate includes for mixing necessary colouring agent, adhesive etc. as per standard specifications all complete | 43 | Sq.M | | | | | | |
| 22 | Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade with two or more coats | 340 | Sq.M | | | | | | |
| 23 | Finishing walls with Acrylic Smooth exterior paint of required shade with Two or more coat applied @ 1.67 ltr/10 sqm over & including base coat of water proofing cement paint applied @ 2.20kg/10 sqm. with 3 or more coats | 189 | Sq.M | | | | | | |
| 24 | Providing and laying 3 mm neat cement punning on exposed drain surfaces | 70 | Sq.M | | | | | | |
| | BRICK WORK | | | | | | | | |
| | All brick work (including supply of bricks) shall be with Burnt clay Brick class designation 75 as per CPWD Specification unless otherwise mentioned. The rate includes for special jambs, sill and corners and other scaffolding, curing etc. including all labour and materials. | | | | | | | | |
| 25 | Brick work with Class Designation 75 bricks in Cement mortar 1:4 (1 cement : 4 coarse sand) in Drain Works. The rate includes | 11 | Cu.M | | | | | | |
| 26 | Brick work with Class Designation 75 bricks in Cement mortar 1:6 (1 cement :64 coarse sand) in superstructure ABOVE PLINTH AND UP TO FLOOR V LEVEL | 50 | Cu.M | | | | | | |
| 27 | Half brick masonry with Class designation 75 bricks in Cement mortar 1:4 (1 cement : 4 coarse sand) IN superstructure ABOVE PLINTH & UP TO FLOOR V LEVEL | 4 | Sq.M | | | | | | |
| | FLOORS & BASES | | | | | | | | |
| | a) The prices for hard core are to include for all labour in laying to slopes or camber, hand packing, edges of haunches forming splayed edges, watering and rolling and ramming wherever required to solid compaction etc. | | | | | | | | |
| | b) The prices are to include for works at all levels/depths | | | | | | | | |
| 28 | Supply and Laying boulder soling under floors and footing including watering, ramming, Bliding, and well consolidating with broken stone aggregates 90mm to 40mm in layers of maximum compacted thickness of 100mm including filling the voids with smaller stone chip and with bliding materials fine river sand.(Payment shall be made of finished compacted thickness of hard core). | 32 | Cu.M | | | | | | |
| 29 | Laying fully vitrified floor tile in different sizes, 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. Size of Tiles 60x60 Cm. | 47 | Sq.M | | | | | | |
| 30 | Fixing 1st quality ceramic glazed wall tiles in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade. | 20 | Sq.M | | | | | | |
| 31 | Laying of removable false flooring with fire resistant particle board panels including 2 mm thick anti static PVC top and lipping, supporting arrangement as per specification, drawings and engineer in charge. | 79 | Sq.M | | | | | | |
| 32 | Fixing of chemical resistant (Acid & Alkali) Tiles of minimum thickness 25 mm thick in flooring/Dado . The potassium silicate as per IS 4832,6 mm thick mortar used for setting or for under bed shall be durable strong and chemical resistant epoxy mortar including pointing etc. after laying bitumen primer as per IS 158 and 12 mm thick bitumastic complete as per IS 9510 and IS 412 and as per specification. | 41 | Sq.M | | | | | | |
| 33 | Providing and laying 40 mm thick cement concrete flooring in 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating cement slurry topping, all complete. | 48 | Sq.M | | | | | | |
| | ROOFING | | | | | | | | |
| 34 | Providing and Laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufacture of density at 25° C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23° C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150° C. Cold flexibility shall be upto -2° C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :3mm thick Note:- Before laying of APP membrane, surface preparation of top surface shall be done to make the surface smooth & even, by using 1:2:4 screed concrete. Nothing extra shall be paid in this account. | 141 | Sq.M | | | | | | |
| | DISMANTLING | | | | | | | | |
| 35 | Demolishing cement concrete manually/ by mechanical means including disposal of material outside premises at unobjectionable and as per direction of Engineer -in - charge. | | | | | | | | |
| | i) 1:3:6 or richer mix | 0.25 | Cu.M | | | | | | |
| | ii) 1:4:8 or leaner mix | 0.25 | Cu.M | | | | | | |
| 36 | Demolishing R.C.C. work manually/by mechanical means including stacking of steel bars & disposal of unserviceable material outside site at unobjectionable place& as per direction of Engineer-in-charge. | 16.3 | Cu.M | | | | | | |
| 37 | Demolishing Brick work manually/mechanical means including stacking of serviceable material & disposal of unserviceable material outside site at unobjectionable place & as/direction of Engineer-in-charge. | 1 | Cu.M | | | | | | |
| 38 | Dismantling Steel work in single sections including dismembering and stacking within premises R.5 Joists | 10 | KG. | | | | | | |
| | SANITARY | | | | | | | | |





| DAFFPL | | BOQ FOR CONTROL ROOM & ALLIED WORKS | | CONSTRUCTION/ERECTION/INSTALLATION, TESTING & COMMISSIONING (B) | | REV.1 | Date | 5/2/2018 |
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| | | | | | | REV.2 | Date | 17/4/2018 |
| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | BASIC UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) |
| 39 | European W.C Fixing of white vitreous china extended wall mounting water closet including fixing white vitreous china cistern with dual flush fitting, seat cover, cistern fittings, nuts, bolts and gasket etc complete | 2 | Each | | | | | |
| 40 | Wash hand basin Fixing of wash basin with C.I. brackets, 15 mm C.P. brass pillar tap (Jaquar - LYR-38051B Single Lever or approved equivalent) ,32 mm C.P. brass waste of standard pattern, including painting of fittings | 1 | Each | | | | | |
| 41 | Fixing G.I. inlet connection for flush pipe connecting with W.C. pan. | 2 | Each | | | | | |
| 42 | Fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. With Flexible pipe of 40 mm dia | 1 | Each | | | | | |
| 43 | Mirror Fixing mirror of superior glass (of approved quality) & of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm | 1 | Each | | | | | |
| 44 | Toilet paper holder Fixing of toilet paper holder (Jaquar - Bath accessories - Queens - AHS-1553) C.P. Brass | 2 | Each | | | | | |
| 45 | Liquid soap container Fixing Of PTMT liquid soap container (Jaquar -Bath accessories - AKP-CHR-35735P or approved equivalent) of standard shape with bracket of the same materials with snap fittings of approved quality and colour. | 1 | Each | | | | | |
| 46 | Towel ring Fixing of PTMT towel ring with concealed fittings arrangement of approved quality and colour. | 1 | Each | | | | | |
| 47 | Towel Rail Fixing of PTMT towel rail. | 1 | Each | | | | | |
| 48 | Coat hook Fixing of PTMT coat hook with concealed fittings arrangement of approved quality. | 2 | EACH | | | | | |
| 49 | Fixing on wall face including scaffolding unplasticised Rigid PVC soil , waste and vent pipes including fitting conforming to IS:14735 such as, but not limited to, all type of bends, tees, Ys with or without door, couplers, unions, reducers, access/socket plug, ring, busings, gully, floor, nahni trap with jali, etc., as required, all necessary accessories required for making it water tight, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion, complete in all respect, Single socketed pipes. 110 mm diameter. | 15 | RM | | | | | |
| 50 | Fixing with clamps i/c cutting chases and making good the wall etc. concealed or embedded under floors unplasticised Rigid PVC soil and waste pipes (Prince or equivalent) conforming to IS:13592 Type B including fitting conforming to IS:14735 such as, but not limited to, all type of bends, tees, Ys with or without door, couplers, unions, reducers, access/socket plug, busings, gully, floor, nahni trap with jali, etc., as required, all necessary accessories required for making it water tight. This includes jointing of pipes & fittings with one step solvent cement and testing of joints complete as per direction of Engineer-in-Charge, Single socketed pipes. | | | | | | | |
| | i) 75 mm dia nominal bore | 2 | RM | | | | | |
| | ii) 110 mm dia nominal bore | 20 | RM | | | | | |
| 51 | Fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. for WATER and AIR, External work. B class 40 mm dia. nominal bore | 10 | RM | | | | | |
| 52 | Making connection of G.I. Distribution branch with G.I main of following sizes by providing & fixing C class tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore | 10 | RM | | | | | |
| 53 | Fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall for WATER and AIR | | | | | | | |
| | i) B class 15 mm dia nominal bore | 5 | RM | | | | | |
| | ii) B class 20 mm dia nominal bore | 5 | RM | | | | | |
| 54 | Fixing brass bib cock of 15 mm nominal bore | 5 | Each | | | | | |
| 55 | Fixing brass stop cock of 15 mm nominal bore | 1 | Each | | | | | |
| 56 | Fixing gun metal gate valve: 40 mm nominal bore | 2 | Each | | | | | |
| 57 | Fixing gun metal non return valve: 40 mm nominal bore, horizontal bore | 2 | Each | | | | | |
| 58 | Fixing ball valve (brass) of 15 mm nominal bore | 2 | Each | | | | | |
| 59 | Providing & Fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I.cover with frame of 300 x300 mm size(inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: | | | | | | | |
| | i) 180x150 mm size P type with common burnt clay bricks of class Designation 75 | 1 | Each | | | | | |
| | ii) 150x100 mm size P type with common burnt clay bricks of class Designation 75 | 2 | Each | | | | | |
| 60 | Painting G.I. pipes & fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work : 15 mm diameter pipe | 5 | RM | | | | | |
| 61 | Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 75 class designation bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : | | | | | | | |
| | Inside dimensions 600x 850 mm and 45 cm deep for pipeline with 3 or more inlets, with common burnt clay bricks of class designation 75 | 1 | Each | | | | | |
| 62 | Placing and Fixing of 1000 Liter capacity water storage tank and making necessary holes for inlet, outlet and overflow pipes including necessary fittings and the base support for tank. | 1 | No | | | | | |
| 63 | Laying of non-pressure NP3 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : Light Duty | | | | | | | |
| | i) 100 mm dia. R.C.C. pipe | 2 | RM | | | | | |
| | ii) 150 mm dia. R.C.C. pipe | 5 | RM | | | | | |
| 64 | Fixing unplasticised PVC connection pipe with brass unions : 30 cm length, 15mm nominal bore | 2 | Each | | | | | |
| 65 | Fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings | 1 | Each | | | | | |
| 66 | Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.with common burnt clay bricks of class designation 75 | 1 | Each | | | | | |
| MISCELLANEOUS | | | | | | | | |
| 67 | Cutting, fabrication and installation of false ceiling with TRAC 150 F of Interarch (or equivalent) coil coated (Pre painted) steel false ceiling system comprising of 150 mm wide X 17 mm deep roll formed out of 0.50 mm thick polyester coated galvanised steel panels, fixed on steel runner of 34.5 mm width X48 mm deep manufactured out of 0.60 mm thick pre coated galvanised steel with rigid suspension of 20X20X0.5 mm fixed with steel brackets/clips etc. The suspension system should be meant of exterior use. The carrier shall be suspended at 1 mtr c/c c/c supported fro purlin and suspension angle at 500 mm c/c. Panel shall be factory cut to provide minimum joints. The longitudinal joints shall have additional special GI splice in between two panels. The carrier joint shall have a carrier splice maintaining a module of 150 mm. The ceiling shall be chipped on to the suspended carriers after they are aligned and leveled. cutting for fixing of light fittings shall be done as per the cutiut required to fit the fixture. The work shall be carried out under a specialised and experienced supervisor. | 135 | Sq.M | | | | | |





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| SL. No. | DESCRIPTION OF ITEM | QTY | UNIT | BASIC UNIT RATE (Rs.) | AMOUNT (Rs.) (a) | GST % | GST AMOUNT (Rs.) (b) | TOTAL AMOUNT (Rs.) (c=a+b) | |
| 68 | Diluting and injecting chemical emulsion for POST- CONSTRUCTIONAL anti termite treatment using chemical emulsion @one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement plaster 1:2(1 cement:2 coarse sand) with chlorophyrophos /lindane E.C. 20% with 1 % concetration | 183 | Sq.M | | | | | | |
| 69 | Providing, Cutting, hoisting& fixing in position and applying a priming coat of approved steel primer, all complete on structural steel work in single section fixed with or withiut connecting plate. | 200 | KG. | | | | | | |
| 70 | Painting with black anti- corrosive bitumastic paint of approved brand and manufacture to give an even shade with 2 or more coats | 10 | Sq.M | | | | | | |
| 71 | Providing & Fixing structural steel members in concrete, using cement grout 1:1:2. The rate includes for mixing anti shrinkage compound in grout | 0.25 | Cu.M | | | | | | |
| PART - 2 ELECTRICAL WORKS | | | | | | | | | |
| INSTALLATION , TESTING & COMMISSIONING OF | | | | | | | | | |
| Power Distribution Board (IP55) | | | | | | | | | |
| 72 | Installation , testing and commissioning of Weather Proof 125A, 415V, 3Ph & N, 50HZ sheet steel enclosure flush mounting to wall power distribution board for lighting & power load of the following incoming and outgoing feeders including all required hardwares . 1no. -Incomer 125A MCCB with ELCB (100mA Sensitivity). 4Nos 20A TPN & 3 Nos DP 32A MCB 6Nos 10A SPN & 9Nos 20A SPN MCB | 1 | Nos | | | | | | |
| Exhaust Fan | | | | | | | | | |
| 73 | Installation , testing and commissioning of 300 mm sweep., heavy duty, weather Proof, single phase exhaust fan with Louvers complete with motor, cable gland, shutter, louver, bird catcher, mounting bracket, fasteners, hardware etc. and conforming to IS. | 5 | Nos | | | | | | |
| LIGHTING FIXTURES & ACCESSORIES | | | | | | | | | |
| 74 | Installation , testing and commissioning of Weather proof LED Lighting Fixtures & Accessories .(All Lighting fixtures shall be provided with required no. of single compression nickle plated brass cable glands, stopping plug and all required hardwares.) | | | | | | | | |
| 74.1 | 36 W decorative type mirror optics recessed mounting LED light fixture complete with all its accessories suitable for Recessed type mounting arrangement. | 24 | Nos | | | | | | |
| 74.2 | 2x18W industrial type LED light fittings stanchion mounting complete with all its accessories | 2 | Nos | | | | | | |
| SWITCH SOCKET / SWITCH (MODULER TYPE): | | | | | | | | | |
| 75 | Installation , testing, commissioning, inspection of Lighting ON/OFF Switch, Switch Socket & Switch Board with all required hardwares | | | | | | | | |
| 75.1 | Modular type switch board-6module box-90x220. having 4Nos switch & 1 Nos 240V 5A/10A socket with | 1 | Nos | | | | | | |
| 75.2 | Modular type switch board-8 module box-160x150. having 5Nos switch & 1 Nos 240V 5A/10A socket with switch | 1 | Nos | | | | | | |
| 75.3 | Modular type switch board-4module box having2Nos switch & 1 Nos 240V 5A/10A socket with switch | 1 | Nos | | | | | | |
| 75.4 | Modular type switch board, 2no. 10A lighting ON-OFF switch -2 module box-90x95. | 1 | Nos | | | | | | |
| 75.5 | 240V , 3Pin metal clad, 20A socket fitted with 20A SP MCB brand type 18119 of "Roma" make or equivalent make, sw. socket brand type 36165 and 20A metal clad plug top with chain cover " Roma " brand having code no. 5820 or equivalent make of white colour. for window /split AC-3module-90x120 | 5 | Nos | | | | | | |
| 75.6 | Modular type switch board having 1 no. Modular type switch with 13/15A Modular type 6 PIN socket ROMA type ANCHOR or equivalent make - 90 x 120 MM | 3 | Nos | | | | | | |
| 75.7 | 6A, 3 pin socket with ISI mark, having code no. 21102 & 6A, 3 pin plug top having code no. 21215 of 'ROMA' type of Anchor make or equivalent make, MS box with front plate for exhaust fan. (2 modules - 90 x 95). | 5 | Nos | | | | | | |
| 75.8 | Flameproof type switch with 13/15A Modular type 6 PIN socket ROMA type ANCHOR or equivalent make | 1 | Nos | | | | | | |
| Installation , testing,commissioning,inspection of PVC CONDUIT AND JUNCTION BOX FOR CONDUITING | | | | | | | | | |
| 76 | Installation, laying, fixing of PVC rigid conduit of min. 2 mm thick of wall heavy duty type & as per latest IS (with bends, reducers, couplers etc.) of following sizes:- 25mm Dia. PVC Rigid Conduit | 120 | Mtr | | | | | | |
| Installation , testing, commissioning, inspection of JUNCTION BOX | | | | | | | | | |
| 77 | PVC (Rigid) - 4 way Junction Boxes of ISI mark, suitable for 25 mm dia rigid PVC pipe entry. | 24 | Nos | | | | | | |
| 78 | Laying & Termination (horizontally and vertically)of of 1.1KV grade PVC, FRLS type armoured Cable., to be laid in cable tray/conduit including plates, covers, etc and accessories. Cable termination at all required points with industrial weatherproof, flameproof double compression cable glanding & lugging for mentioned cable sizes complete with locknuts, sealing washers, pvc shrouds, etc. | | | | | | | | |
| 78.1 | 3CX2.5 sq mm Cu unarmoured cable | 150 | Mtr | | | | | | |
| 78.2 | 3.5C x 70 sq mm Al armoured FRLS cable | 150 | Mtr | | | | | | |
| 78.3 | 4C x 4 sq mm Cu armoured cable | 50 | Mtr | | | | | | |
| 78.4 | Cable end termination (glanding & lugging) of cable mentioned in 81.1 | Unit Rate | Nos | | | | | | |
| 78.5 | Cable end termination (glanding & lugging) of cable mentioned in 81.2 | 2 | Nos | | | | | | |
| 78.6 | Cable end termination (glanding & lugging) of cable mentioned in 81.3 | Unit Rate | Nos | | | | | | |
| EARTH PIT | | | | | | | | | |
| 79 | Installation, testing & commisioning of Advance Earthing System (Maintenance free earthing system) along with earth pit cover, Cu Clamps including all required accessories and indicator plate: 60mmDiax3.0mts long,made from M.S in accrodance to IS 1909 & IS 3043,along with 75 kgs.of premium Ground improving compound as per IS 3043 duly modified for excellent electrical conductivity & moisture retaining capacity. | 4 | Nos | | | | | | |
| CABLE TRAY | | | | | | | | | |
| 80 | Installation, Erection of FRP/GRP Ladder / perforated type cable tray with cover of following sizes with all the accessories like bends, tees, reducers, elbow, joints, etc. and fixing hardware including supply of all materials as per specifications, drawings. | | | | | | | | |
| 80.1 | 600 mm wide-100mm height-4 mm thick Ladder type cable tray | Unit Rate | Mtrs | | | | | | |
| 80.2 | 300 mm wide-50mm height-4 mm thick Ladder type cable tray | 120 | Mtrs | | | | | | |
| 80.3 | 200 mm wide x 50 mm height - 4 mm thick - Perforated type | 25 | Mtrs | | | | | | |
| 81 | Installation, fixing of FRP Covers for following sizes FRP Ladder / perforated type cable tray | | | | | | | | |
| 81.1 | 600 mm wide-100mm height-4 mm thick Ladder type cable tray | Unit Rate | Mtrs | | | | | | |
| 81.2 | 300 mm wide-50mm height-4 mm thick Ladder type cable tray | Unit Rate | Mtrs | | | | | | |
| 81.3 | 200 mm wide x 50 mm height - 4 mm thick - Perforated type | Unit Rate | Mtrs | | | | | | |
| 81.4 | 150 mm wide x 50 mm height-4 mm thick - Perforated type | Unit Rate | Mtrs | | | | | | |
| 81.5 | 100 mm wide x 30 mm height -4 mm thick - Perforated type | Unit Rate | Mtrs | | | | | | |
| 81.6 | 50 mm wide x 30 mm height -3 mm thick - Perforated type | Unit Rate | Mtrs | | | | | | |
| 82 | Installation/Erection of G.I. ladder type Cable Tray with cover 100x30x2mm thick runners, Rungs at 300mm spacing, along with required accessories like bends, tees, reducers, elbow, joints, coupler plate etc with stainless Hard-ware ,Hold on clamps With stainless Hard- ware , suitable for following G.I. Cable Tray and Tray cover | | | | | | | | |
| 82.1 | 600mm Wide Heavy Duty Ladder type cable tray and cover | Unit Rate | Mtrs | | | | | | |
| 82.2 | 300mm Wide Heavy Duty Ladder type cable tray and cover | Unit Rate | Mtrs | | | | | | |
| 82.3 | 200mm Wide Heavy Duty Perforated type cable tray and cover | Unit Rate | Mtrs | | | | | | |
| 82.4 | 150mm Wide Heavy Duty Perforated type cable tray and cover | Unit Rate | Mtrs | | | | | | |
| 82.5 | 50mm Wide Heavy Duty Perforated type cable tray and cover | Unit Rate | Mtrs | | | | | | |



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| 83 | Installation, laying, testing & commissioning of Cu/GI earth strip / laying of earthing cable of following sizes directly buried under ground at depth of 500 mm, including handling, bending, straightening, cutting to size, welding together of earth strips in overlapping manner, chipping in concrete floors/ paved areas for laying the earth strips under floors/ paved areas and making good by cement plastering concrete after laying of the strips ; clamping and supporting of earth strips laid above ground, connecting the strips/ wire at both ends to equipment or to earth bus / earth plates or to GI brackets fixed inside earthen chamber, by bolting etc., Hessian tapes, all necessary GI hardware, Cu/GI clamps, Cu/GI/Al Lugs, civil masonry materials, etc. all work, labour as per attached specifications of this tender and directions of owner/consultant. Rate of excavation and back filling of Cu/GI strip/earthing cable is included. (Nothing extra shall be paid for this account.) | | | | | | | |
| 83.1 | 50 x 6 mm GI Strip | Unit Rate | MTR | | | | | |
| 83.2 | 40 x 5 mm GI Strip | Unit Rate | MTR | | | | | |
| 83.3 | No.8 SWG Solid GI wire | Unit Rate | MTR | | | | | |
| 83.4 | 50 x 6 mm Cu Strip | Unit Rate | MTR | | | | | |
| 83.5 | 25 x 6 mm Cu Strip | Unit Rate | MTR | | | | | |
| 83.6 | 16 sq.mm Cu. PVC flexible wires | Unit Rate | MTR | | | | | |
| 83.7 | 4 sq.mm Cu. PVC flexible wires | Unit Rate | MTR | | | | | |
| 83.8 | 6 sq.mm Cu. PVC flexible wires | Unit Rate | MTR | | | | | |
| 83.9 | Earthing Lugs (AL) suitable for No.8 SWG Solid GI wire | Unit Rate | Nos | | | | | |
| 83.10 | Earthing Lugs (AL) suitable for 4 to 16 sq. mm Cu PVC flexible wires | Unit Rate | Nos | | | | | |
| 84 | Installation of Cu/GI Earth Bus bars of following sizes | | | | | | | |
| 84.1 | GI Earth Bus bars (size: 390x50 x12mm thick) | Unit Rate | Nos | | | | | |
| 84.2 | Cu Earth Bus bars (size: 250x50 x6mm thick) | Unit Rate | Nos | | | | | |
| PART - 3 | CABLE TRAY SUPPORT | | | | | | | |
| | CIVIL WORKS | | | | | | | |
| | A - EARTHWORK (All points 'a' to 'k' under the same heading of Part-1 are applicable) | | | | | | | |
| 85 | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means for foundations, trenches, pipelines, storm water drains etc. including setting out, clearing and grubbing, removal of debris, dewatering if required, strutting, shoring, dressing the sides, levelling of grade and ramming the bottom, stacking up to initial lead of 100 meter in all types of soil including concrete and boulder work but excluding RCC floor, for all leads and lifts. | 219 | Cu.M | | | | | |
| 86 | Filling available excavated earth (excluding rock) under floors and foundations in layers not exceeding 20cm in depth, consolidation each deposited layer by ramming and watering, within premises for all Lift and Lead | 171 | Cu.M | | | | | |
| 87 | Earth work in supply & filling for all works with good quality borrowed earth, free from vegetation, organic matters, boulders with all leads and lifts including cost of transportation, loading/ unloading, breaking clods, watering etc, complete as per directions of Engineer -in- Charge.The measurement shall be made on the basis of calculated compacted volume of earth, based on the contour surveys of level on site before filling and spot level after filling to be taken jointly with contractor after execution of work. | 1 | Cu.M | | | | | |
| | CONCRETE WORK/ REINFORCED CONCRETE WORK (All points under the same heading of Part-1 are applicable) | | | | | | | |
| | B. PLAIN CEMENT CONCRETE | | | | | | | |
| | Providing and laying Ready Mix Cement Concrete in foundation, footings and base for columns/walls including proportioning, mixing in mechanical mixer, laying vibration by means of mechanical vibrators, curing etc. complete including the cost of shuttering:- | | | | | | | |
| 88 | Concrete of mix 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | 7 | Cu.M | | | | | |
| | C. REINFORCED CEMENT CONCRETE | | | | | | | |
| | IN FOUNDATION & PLINTH: | | | | | | | |
| 89 | Providing and laying in position, RMC M-25 grade for reinforced cement concrete work, using cement as per approved design mix, including cost of centering, shuttering but excluding the reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete,improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @410 kg/cum.) | 41 | Cu.M | | | | | |
| | IN SUPERSTRUCTURE: | | | | | | | |
| 90 | Providing and laying in position, machine batched, machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, including floors. Floors are to be cast in the panel of max 3meter x 3meter including integral smooth finish and painting side surfaces with two coats of bitumen paint of approved quality, complete in all respects as per direction of Engineer-in-Charge, using cement as per approved design mix, including pumping of concrete to site of laying and cost of centering, shuttering but excluding the reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete,improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @410 kg/cum.) | 3 | Cu.M | | | | | |
| | REINFORCEMENT & EMBEDMENTS (All points 'a' to 'b' under the same heading of Part-1 are applicable) | | | | | | | |
| 91 | Cutting, bending, hoisting, placing in position with proper precast concrete block cover and binding with 18 SWG annealed wire, high yield strength deformed bars as per IS: 1786 for all R.C.C works including all necessary handling at all heights and depths complete in all respects and as per direction of the Engineer-in-Charge. Thermo Mechanically Treated Bars Fe- 500 grade,Conforming to IS1786 | 6 | Ton | | | | | |
| | FINISHING (All points 'a' to 'f' under the same heading of Part-1 are applicable) | | | | | | | |
| | Providing and laying cement plaster on surfaces with Coarse sand including curing etc. | | | | | | | |
| 92 | Providing and laying 6mm thick cement plaster on surfaces with fine sand including curing etc. 6mm thick plaster of mix 1:3 (1 cement: 3 fine sand) | 7 | Sq.M | | | | | |
| 93 | Finishing walls with Acrylic Smooth exterior paint of required shade with Two or more coat applied @ 1.67 ltr/10 sqm over & including base coat of water proofing cement paint applied @ 2.20kg/10 sqm. with 3 or more coats | 7 | Sq.M | | | | | |
| 94 | Demolishing R.C.C. work manually/by mechanical means including stacking of steel bars & disposal of unserviceable material outside site at unobjectionable place& as per direction of Engineer-in-charge. | 19.2 | Cu.M | | | | | |
| 95 | Demolishing Brick work manually/mechanical means including stacking of serviceable material & disposal of unserviceable material outside site at unobjectionable place & as/direction of Engineer-in-charge. | 1 | Cu.M | | | | | |
| 96 | Dismantling Steel work in single sections including dismembering and stacking within premises R.5 Joists | 10 | KG. | | | | | |
| | STRUCTURAL STEEL WORKS | | | | | | | |
| 97 | Fabricating and Erecting Structural steel work riveted, welded in single/ built up sections in framed work, including providing and applying Anti Corrosive Treatment to structural steel surface, as per below specifications | 27 | Ton | | | | | |
| | a) Surface preparation by shot blasting conforming to SA 2.5 | | | | | | | |
| | b) Primer coat of Inorganic Zinc Ethyl Silicate, one coat of 75-80 mm micron DFT | | | | | | | |
| | c) Intermediate Coat of Two Pack Epoxy Polyamide MIO under coat, one coat of 120-125 micron DFT, | | | | | | | |
| | d) Final coat of Two Pack Aliphatic Polyurethane Two coats of 25 micron DFT | | | | | | | |



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| | e) Total DFT shall be approx. 230 mm micron. Primer Primer and paint shall be of approved make | | | | | | | | |
| | The rates shall be inclusive of preparation of Fabrication drawing by a competent agency and getting approved by DAFFPL/ client, | | | | | | | | |
| | Structural bolts and fixtures shall be as per IS:4000, class 8.8 Type-1. No extra payment shall be made for weight of bolt arrangement and welds and the rates shall be deemed inclusive of these. The unit of payment shall be on weight as per final approved fabrication drawing. | | | | | | | | |
| 98 | Fixing of Foundation Bolt class 4.6 including nuts, washers, plates; diameter upto 20 mm and length up to 1.0 meter. | 240 | Kg | | | | | | |
| TOTAL | | | | | | | | | |
| Total Amount (B) including taxes in words: | | | | | | | | | |
| Notes: | | | | | | | | | |
| 1. All supply and work shall be in line with tender specifications, drawings and instructions of the Engineer -in-Charge. | | | | | | | | | |
| 2. Construction power, water, loading and boarding, Site Storage with watch and ward, receipt, unloading, shifting material to store and internal shifting to site shall be included in Vendor's scope. | | | | | | | | | |
| 3. The unit rates as quoted to arrive at above total price shall be firm and inclusive of all duties, levies, transportation etc. No separate payment shall be made for site mobilization / demobilization, insurance etc. | | | | | | | | | |
| 4. The Schedule of Rates should be read with all other sections of the tender documents. | | | | | | | | | |
| 5. The tenderer shall be deemed to have studied the drawings, specifications and the details of work to be done within the time schedule and to have acquainted with the conditions prevailing at site. Site visit is mandatory. | | | | | | | | | |
| 6. The quantities shown against the various items are only indicative of the quantum of work and it may vary to any extent. Billing will be done as per actual. Vendor to make measurements at site before dispatch of any material/installation. | | | | | | | | | |
| 7. The rate quoted shall be inclusive of all work as mentioned in the scope of work in tender documents. | | | | | | | | | |
| 8. In case of any rework due to faulty workmanship or any defects occur or modifications are required no extra claims for such works/supply shall be entertained. | | | | | | | | | |
| Signature of Bidder along with company seal | | | | | | | | | |