

| AKAL ACADEMY MAKHANGARH ( 2ND FLOOR )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |       |      |       |
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| Civil Works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quantity  | unit  | Rate | Total |
| 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. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement.<br>1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)                                                                                                                                                                                                                                                                   | 6.57      | CUM   |      |       |
| Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)                                                                                                                                                                                                                                                         | 64.21     | CUM   |      |       |
| Steel 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12,677.68 | KG    |      |       |
| Centering and shuttering including strutting ,propping etc. and removal of form for all works at all levels.<br>Suspended floors,BEAMS,roofs,landing,balconies and access platforms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 462.90    | SQM   |      |       |
| Column Shuttering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60.10     | SQM   |      |       |
| shelves (cast in situ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36.87     | SQM   |      |       |
| Brick work with common burnt clay F.P.S (non modular)brick of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and size in:<br>Cement mortar 1:6(1cement: 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60.21     | CUM   |      |       |
| Half brick masonry with common burnt clay F.P.S.( non modular ) brick of class designation 7.5 in superstructure above plinth level up to floor V level .<br>Cement mortar 1:4(1cement: 4 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 126.93    | SQM   |      |       |
| Extra for providing and placing in position 2 Nos 6 mm dia. M.S. bars at every third course of half brick masonry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 126.93    | SQM   |      |       |
| Aluminium window, ventilateor including fixing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 65.91     | SQM   |      |       |
| Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:<br>Profile B<br>Fixing with adjustable lugs with split end tail to each jamb | 45.17     | Metre |      |       |
| Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:<br>35 mm thick including ISI marked stainless steel butt hinges with necessary screws.                                                                                                                                                                                                                                                                                      | 75.41     | SQM   |      |       |
| Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :<br>5. mm thick glass panes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 75.95     | SQM   |      |       |
| Providing and applying white cement based putty of average thickness 1mm, of approvedbrand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete Ceiling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 821.28    | SQM   |      |       |
| Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour two coats                                                                                                                                                                                                                                                                                                                                                                                                   | 821.28    | SQM   |      |       |
| Finishing walls with textured exterior paint of required shade : New work (Two or more coat applied @ 3.28 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 373.31    | SQM   |      |       |
| :Two or more coats on new works including a coat of wood filler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 45.17     | SQM   |      |       |
| Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :<br>Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture                                                                                                                                                                                                                                                                                                                                                                                                                                        | 111.99    | SQM   |      |       |
| Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.<br>Twin rubber stopper                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.00      | Each  |      |       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12.00     | Each  |      |       |

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|  | Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI ,IS : 3564 embossed on the body ,door weight upto 35 kg and door width upto 700 mm) with necessary and screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                         | 7.00   | Each  |  |  |
|  | 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>250*10 mm                                                                                                                                                                                                                                                                                                                                                                                                            | 7.00   | Each  |  |  |
|  | 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 nuts and screws etc. complete :<br>300x16 mm                                                                                                                                                                                                                                                                                                                                                                                                     | 7.00   | Each  |  |  |
|  | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering : flooring pcc<br>1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded brick aggregate 40 mm nominal size)                                                                                                                                                                                                                                                                                                                                                                                                             | 18.98  | cum   |  |  |
|  | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.<br>Size of Tile 600x600 mm                                                                                                                                                                             | 253.10 | SQM   |  |  |
|  | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.<br>Size of Tile 600x600 mm                                                                                                                                                          | 14.42  | SQM   |  |  |
|  | 20 mm cement plaster on the rough side of single or half brick wall of mix.<br>1:4 (1 cement : 4 Fine sand )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 179.19 | SQM   |  |  |
|  | 12 mm cement plaster of mix<br>1:4 (1 cement : 4 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 343.45 | SQM   |  |  |
|  | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.<br>110 mm diameter                                                                                                                                                                                                                                                                                                                                                                              | 24.39  | Meter |  |  |
|  | 110 mm bend                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.00   | Each  |  |  |
|  | 110 mm Shoe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.00   | Each  |  |  |
|  | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.<br>110 mm                                                                                                                                                                                                                                                                                              | 13.00  | Each  |  |  |
|  | 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 In 75x75 mm deep chaseGrading roof for water proofing treatment with 22.14.1 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) (gola )<br>Avg thickness 30 mm                                                                                                                                                                                                                 | 52.26  | metre |  |  |
|  | 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>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 300 mm height including cleaning the surface before treatment.<br>Grading roof for water proofing treatment with 22.14.1 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal | 298.65 | sqmt  |  |  |
|  | Parapit work include bricks, cement mortar with coping ( ratio 1:6 cement - 1 , sand - 6 ) height upto 460 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.44  | cum   |  |  |
|  | <b>Electrical</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -      |       |  |  |
|  | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.<br>Group C                                                                                                                                                                                                                                                                    | 35.00  | Point |  |  |
|  | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.                                                                                                                                                                                                                                                                                                                                                                             | 134.39 | Meter |  |  |
|  | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.<br>2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                        | 483.90 | Meter |  |  |
|  | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 283.72 | Meter |  |  |
|  | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                          | 9.00   | Each  |  |  |
|  | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                | 9.00   | Each  |  |  |

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|  | Installation, testing and commissioning of ceiling fan, including wiring the down rods of suitable length (upto 0.75m) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19.00 | Each |  |  |
|  | <b>MCCB, MCB &amp; DB'S</b><br>Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)<br>6 way, Double door                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.00  | Each |  |  |
|  | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.<br>Single Pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.00  | Each |  |  |
|  | Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 18.00 |      |  |  |
|  | <b>Electrical- Non Scheduled Items</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -     |      |  |  |
|  | <b>LIGHT FIXTURES</b><br>Supplying, Installation, testing, commissioning, receiving the lighting fixture & fan including assembling etc. of the following lighting fixtures including fixing arrangement and with all accessories as required with necessary GI pipe/steel pipe etc as required for hanging of lighting fixtures.<br>Supplying, installation, testing & commissioning of All fixtures shall be complete with lamps and required control gear.<br>All LED fixtures shall be complete with control gear & power factor improvement capacitor. For dimmable fixtures, HF dimmable electronic ballast to be used.<br>Samples of all the fixtures with all available colour shall be submitted to the Engineer -in-charge before Supplying & approval is taken.<br>Please check the fixtures final quantity from the Engineer-in-charge before ordering and be sure of actual requirement prior to ordering.<br>1x upto 20W LED Surface mounted Batten Light | 10.00 | Each |  |  |
|  | Supplying of Ceiling Fan of 1400mm sweep complete erected in position with all accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19.00 |      |  |  |