

# EXTENSION TO THE G BLOCK CANTEEN - UVA WELLASSA UNIVERSITY

## SUMMARY

| NO | DESCRIPTION                        | AMOUNT              |
|----|------------------------------------|---------------------|
|    | <b>PRELIMINARIES</b>               |                     |
| A  | PRELIMINARIES A01-A11              | 1,245,000.00        |
|    | <b>GRAND TOTAL - PRELIMINERIES</b> | <b>1,245,000.00</b> |

|   |                                   |              |
|---|-----------------------------------|--------------|
|   | <b>GROUND FLOOR</b>               |              |
| B | EXCAVATION AND EARTH WORK         |              |
| C | CONCRETE                          |              |
| D | FORM WORK                         |              |
| E | REINFORCEMENT                     |              |
| F | MASONARY WORK                     |              |
| G | ALUMINIUM WORK                    |              |
| H | PLASTERING                        |              |
| J | PAINTING                          |              |
| K | FLOORING                          |              |
| L | ELECTRICAL WORKS                  |              |
| M | WEATHER TROTS                     |              |
| N | PLUMBING WORK                     |              |
| P | PLUMBING FITTINGS                 |              |
| Q | FIRE DETECTION AND PROTECTION     |              |
| R | METAL WORK                        |              |
| S | CARPENTORY WORK                   |              |
| T | HOT AIR EXHAUST SYSTEM            | 1,000,000.00 |
|   | <b>GRAND TOTAL - GROUND FLOOR</b> |              |

|   |                         |  |
|---|-------------------------|--|
|   | <b>FIRST FLOOR</b>      |  |
| C | CONCRETE                |  |
| D | FORM WORK               |  |
| E | REINFORCEMENT           |  |
| F | MASONARY WORK           |  |
| G | ALUMINIUM WORK          |  |
| H | PLASTERING              |  |
| J | PAINTING                |  |
| K | FLOORING                |  |
| L | ELECTRICAL WORKS        |  |
| M | ROOF AND ROOF PLUMBINNG |  |
| N | PLUMBING WORK           |  |
| P | PLUMBING FITTINGS       |  |

|                                  |                               |  |
|----------------------------------|-------------------------------|--|
| Q                                | FIRE DETECTION AND PROTECTION |  |
| R                                | METAL WORK                    |  |
| S                                | CARPENTRY WORK                |  |
| T                                | CEILING WORK                  |  |
| <b>GRAND TOTAL - FIRST FLOOR</b> |                               |  |

| <b>EXTERNAL WORK</b>               |                              |              |
|------------------------------------|------------------------------|--------------|
| B                                  | EXCAVATION AND EARTH WORK    |              |
| C                                  | CONCRETE                     |              |
| D                                  | FORM WORK                    |              |
| E                                  | REINFORCEMENT                |              |
| F                                  | MASONARY WORK                |              |
| G                                  | WASTE MANAGEMENT SYSTEM      |              |
| H                                  | PLASTERING                   |              |
| J                                  | PAINTING                     |              |
| K                                  | INTERLOCK PAVING AND TURFING | -            |
| L                                  | ELECTRICAL WORKS             |              |
| N                                  | PLUMBING WORK                |              |
| P                                  | MAIN ENTRANCE                |              |
| Q                                  | ACCESS FOR DIFFERENTLY ABLES | 1,400,000.00 |
| <b>GRAND TOTAL - EXTERNAL WORK</b> |                              |              |

|                                |  |   |
|--------------------------------|--|---|
| <b>TOTAL CONSTRUCTION COST</b> |  | - |
|--------------------------------|--|---|

# EXTENSION TO THE G BLOCK CANTEEN - UVA WELLESSA UNIVERSITY

## BILL OF QUANTITIES

### GROUND FLOOR

| ITEM     | DISCRIPTION   | UNIT | QTY | RATE (Rs) | AMOUNT(Rs) |
|----------|---|------|-----|-----------|------------|
| <b>A</b> | <b>PRELIMINARIES</b>  |      |     |           |            |
|          | Note : Following items to be priced as appropriate.   |      |     |           |            |
|          | <b>Insurance and Securities</b>   |      |     |           |            |
| A-1      | Allow sum for Providing a Performance Security  | Ps   |     |           | 220,000.00 |
| A-2      | Allow sum for providing an Advance Payment Security   | Ps   |     |           | 160,000.00 |
| A-3      | Allow sum for contractor's all risk insurance for Works, Machinery & Equipment, Plant, Materials, third party persons & property and Employer's personnel & property at site as per the Contract.   | Ps   |     |           | 150,000.00 |
| A-4      | Allow sum for insurance against accidents and injury to Contractor's personnel as per the Contract.   | Ps   |     |           | 30,000.00  |
| A-5      | <b>Engineer's /Contractor's Facilities</b><br>Allow sum for constructing, maintaining, dismantling and removal on completion of the contractors work facilities, bilute, sanitary facilities, any preparatory work for available temporary building for Contractor's site office, electricity and water connections (water and electricity will be provided by the Employer and the cost will be deducted from the contractor's billls), other facilities for Employer and Engineer for the supervision of the work such as safety wares, measuring devices, TS, TL, transport, communication, computer usage etc., | Ps   |     |           | 380,000.00 |
|          | <b>Quality, Standards and Progress</b>  |      |     |           |            |



| ITEM     | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs)          |
|----------|---|----------------|-------|-----------|---------------------|
| A-6      | Allow lump sum for all cost in connection with testing materials/works, preparing samples for testing, making arrangements for testing of Materials, Goods etc, as stipulated in the specification, obtaining test reports and submitting the same to the Engineer. | Ps             |       |           | 80,000.00           |
|          | <b>Health, Safety and Environment</b>   |                |       |           |                     |
| A-7      | Allow lump sum for providing and maintaining first aid box and regular supply of medicine, linen etc.   | Ps             |       |           | 50,000.00           |
| A-8      | Allow lump sum for providing all necessary hoardings for safety measures to workmen at site   | Ps             |       |           | 35,000.00           |
| A-9      | Allow lump sum for making adequate provision against air and noise pollution of surrounding areas. Dust screens shall be provided to control dust escaping to surrounding areas.  | Ps             |       |           | 25,000.00           |
|          | <b>Miscellaneous</b>  |                |       |           |                     |
| A-10     | Allow lump sum for providing and maintaining a name board to the specifications and / or as directed by the Engineer.   | Ps             |       |           | 15,000.00           |
| A-11     | Allow lump sum for subsoil test using McIntosh aparatus as directed by the Engineer.  | Ps             |       |           | 100,000.00          |
|          | <b>TOTAL CARRIED TO SUMMARY</b>   |                |       |           | <b>1,245,000.00</b> |
|          | <b>GROUND FLOOR</b>   |                |       |           |                     |
| <b>B</b> | <b>EXCAVATION AND EARTH WORK</b>  |                |       |           |                     |
|          | <b>Site Preparation</b>   |                |       |           |                     |
| B-01     | Site clearing including removing all debris, small trees up to 0.5 m girth, vegetations including top soil up to 150 mm depth and dispose to suitable locations.  | m <sup>3</sup> | 80.00 |           |                     |

| ITEM | DISCRIPTION  | UNIT           | QTY    | RATE (Rs)  | AMOUNT(Rs) |
|------|--|----------------|--------|------------|------------|
|      | <b>Excavation</b><br><br>Earth excavation in any material except rock requiring blasting, part return fill rammed and well consolidated. All excavations to be protected from rain/storm water runoff falling into the same by suitable means. Unsuitable material shall dispose to approved locations |                |        |            |            |
|      | <b>Levelling the land</b>  |                |        |            |            |
| B-02 | Levelling the land to required level   | m <sup>3</sup> | 580.00 |            |            |
| B-03 | For footings   | m <sup>3</sup> | 355.00 |            |            |
| B-04 | Excavation for foundation trench and for tie beams   | m <sup>3</sup> | 35.00  |            |            |
|      | <b>Earth Filling</b><br><br>Earth filling and compaction up to required level. Work shall be carried out as per specification.   | note           |        |            |            |
| B05  | Earth filling under floor with approved quality material and compacting in layers as directed by the Engineer. Soil Available at site  | m <sup>3</sup> | 390.00 |            |            |
|      | <b>Gravel filling</b><br><br>Filling under coloum foundation by spreading, watering and compacting with approved quality earth in 75mm layers by manually as directed (earth available at site) - Compacted volume.  | m <sup>3</sup> | 14.00  |            |            |
| B-06 |  |                |        |            |            |
| B-07 | Allow provisional sum for unforceen work under ground  | Ps             | 1.00   | 220,000.00 | 220,000.00 |
|      | <b>Anti termite Treatment</b>  |                |        |            |            |

| ITEM                     | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|--------------------------|---|----------------|--------|-----------|------------|
| B-08                     | Anti termite treatment for ground floor area of the building according to the manufacturers specifications by a specialist pest control service provider approved by the engineer. 10 year warranty for material and workmanship from the date of handing over the work shall be provided including transport   | m <sup>2</sup> | 448.00 |           |            |
| TOTAL CARRIED TO SUMMARY |   |                |        |           |            |
| C                        | CONCRETE  |                |        |           |            |
|                          | <p>The Contractor shall refer the followings prior to pricing the items in this trade.</p> <p>a. All relevant drawings</p> <p>b. Specifications</p> <p>c. Pricing preambles</p> <p>d. Location</p> <p>All concrete shall be made dense with a vibrator. Rate shall include for plant for mixing , handling, hoisting, depositing, compacting ,vibrating and curing making good after removal of form work and for any tests when necessary.</p> <p>OPC cement complied with relevent Sri Lanka standards and approved by Engineer shall be used.</p> <p>Rate shall include for mixing, placing, compacting with porker vibrator, levelling and curing.</p> <p><b>Plain in-situ Grade15 Concrete</b></p> | note           |        |           |            |
|                          |   | note           |        |           |            |
|                          |   | note           |        |           |            |
| C-01                     | Under footing base  | m <sup>3</sup> | 7.60   |           |            |
| C-02                     | Under foundation Strips   | m <sup>3</sup> | 2.05   |           |            |
|                          | <b>Reinforced in-situ Grade 25 concrete (R/F paid seperately) foundation level to roof level</b>  |                |        |           |            |
| C-03                     | Column footings   | m <sup>3</sup> | 63.50  |           |            |
| C-04                     | Column shaft  | m <sup>3</sup> | 17.00  |           |            |



| ITEM | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|---|----------------|-------|-----------|------------|
| C-05 | Plinth beams  | m <sup>3</sup> | 20.50 |           |            |
| C-06 | Floor concrete  | m <sup>3</sup> | 37.00 |           |            |
| C-07 | Ramp  | m <sup>3</sup> | 0.90  |           |            |
|      | <b>Lintels</b>  |                |       |           |            |
| C-08 | <b>112x150mm Lintels</b> in 1:2:4(20mm) cement concrete including formwork Reinforcement will be paid separately).  | m              | 42.00 |           |            |
| C-09 | Grade 20 concrete 225x150mm size R.C.C. lintels. Rate shall include for form work, concrete work( Reinforcement will be paid separately).   | m              | 3.00  |           |            |
|      | <b>Sill beams &amp; Stiffeners</b>  |                |       |           |            |
| C-10 | <b>112x75mm Window sill</b> in 1:2:4(20mm) cement concrete including formwork ( Reinforcement will be paid separately).   | m              | 10.00 |           |            |
| C-11 | <b>112x150mm stiffness columns</b> in 1:2:4(20mm) cement concrete including formwork (Reinforcement will be paid separately).   | m              | 34.00 |           |            |
|      | <b>Pavement with Drain</b>  |                |       |           |            |
| C-12 | <b>900mm wide ramp</b> in 1:3:6(25mm) concrete with 75mm thick base and side walls inclusive of 20mm thick cement rendering in 1:3 cement sand mix. Rate shall include necessary expansion joints, formwork and excavation. | m              | 56.00 |           |            |

| ITEM                            | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|--------|-----------|------------|
| C-13                            | <b>300 mm wide concrete drains without ramp</b> in 1:3:6(25mm) concrete with 225mm to 300mm average depth, 75mm thick base and side walls inclusive of 20mm thick cement rendering in 1:3 cement sand mix. Rate shall include necessary expansion joints, formwork and excavation.  | m              | 10.00  |           |            |
| C-14                            | Mixing, placing, vibrating and curing Grade 25 concrete in <b>beams</b> (Machine mixing).   | m <sup>3</sup> | 24.00  |           |            |
| C-15                            | Mixing, placing, vibrating and curing Grade 25 concrete in <b>slabs</b> (Machine mixing).   | m <sup>3</sup> | 42.00  |           |            |
| C-16                            | Stairways and landing slab/ slab extension at floor levels  | m <sup>3</sup> | 3.80   |           |            |
| C-17                            | <b>75mm thk concrete in 1:2:4(20mm)</b> cement concrete for work tops   | m <sup>3</sup> | 2.20   |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |        |           |            |
| <b>D</b>                        | <b>FORM WORK</b>  |                |        |           |            |
|                                 | Form work shall be provided with adequate struts, braces, ties, clamps and the like so as to maintain the demensions, lines and levels shown in the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging under the weight of wet concrete including any other supper imposed loads which would be subjected to during construction. | note           |        |           |            |
|                                 | <b>Up to 1st floor slab</b>   |                |        |           |            |
| D-01                            | Column footings   | m <sup>2</sup> | 145.00 |           |            |
| D-02                            | Column shaft  | m <sup>2</sup> | 245.00 |           |            |
| D-03                            | Plinth beams  | m <sup>2</sup> | 130.00 |           |            |



| ITEM                            | DISCRIPTION   | UNIT           | QTY      | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|----------|-----------|------------|
| D-04                            | Ramp  | m <sup>2</sup> | 1.50     |           |            |
| D-05                            | Supplying, fabricating, fixing and removing formwork using <b>18mm thick plywood sheets</b> for <b>Beams</b> .  | m <sup>2</sup> | 225.00   |           |            |
| D-06                            | Supplying, fabricating, fixing and removing formwork using <b>18 mm thick plywood sheets</b> for <b>Slabs</b> .   | m <sup>2</sup> | 330.00   |           |            |
| D-07                            | Supplying, fabricating, fixing and removing formwork using <b>18 mm thick plywood sheets</b> for <b>Stair Cases</b> .   | m <sup>2</sup> | 35.00    |           |            |
| D-08                            | Supplying, fabricating, fixing and removing formwork using <b>18 mm thick plywood sheets</b> for <b>worktops</b>  | m <sup>2</sup> | 27.00    |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |          |           |            |
| <b>E</b>                        | <b>REINFORCEMENT</b>  |                |          |           |            |
|                                 | Steel bar reinforcement cut, bend, place and tie in position as reinforcement to RCC work. Tor Steel characteristic strength 460 N/mm <sup>2</sup> and Mild Steel characteristic strength 250 N/mm <sup>2</sup> to be used as reinforcement to RCC works. | note           |          |           |            |
|                                 | Rates shall be included for cutting, bending, fabricating, placing in position, holding and temporary fixing supports. Ex: chairs, benches, stools, spaces, ties, hangers and binding wires.  | note           |          |           |            |
|                                 | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Tor Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.  |                |          |           |            |
|                                 | <b>Up to 1st floor level</b>  |                |          |           |            |
| E-01                            | Column footing  | kg             | 5,880.00 |           |            |
| E-02                            | Column shaft  | kg             | 2,840.00 |           |            |

| ITEM     | DISCRIPTION   | UNIT           | QTY      | RATE (Rs) | AMOUNT(Rs) |
|----------|---|----------------|----------|-----------|------------|
| E-03     | Plinth beams  | kg             | 2,050.00 |           |            |
| E-04     | lintols   | kg             | 170.00   |           |            |
| E-05     | Window sills  | kg             | 15.00    |           |            |
| E-06     | Ramp  | kg             | 10.00    |           |            |
| E-07     | first floor beams   | kg             | 3,980.00 |           |            |
| E-08     | First floor slab  | kg             | 4,760.00 |           |            |
|          | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Mild Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc. |                |          |           |            |
| E-09     | Mild Steel  | kg             | 1,950.00 |           |            |
| E-10     | counter slabs/ work tops -with Tor Steel  | kg             | 150.00   |           |            |
|          | <b>TOTAL CARRIED TO SUMMARY</b>   |                |          |           |            |
| <b>F</b> | <b>MASONARY WORK</b>  |                |          |           |            |
|          | The Contractor shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.            |                |          |           |            |
|          | Rates for masonry works shall include for plus  | Note           |          |           |            |
|          | Rate shall include for all necessary types of scaffolding whether specified separately or not.  | Note           |          |           |            |
|          | External surfaces of brick work shall complete to a levelled & even surface to receive cladding frame work without any plastering work to walls.          | Note           |          |           |            |
|          | <b>Random Rubble masonry work</b>   |                |          |           |            |
| F-01     | Random rubble masonry work in cement sand mortar 1:5 in wall foundations.   | m <sup>3</sup> | 55.00    |           |            |
|          | <b>D.P.C</b>  |                |          |           |            |

| ITEM     | DISCRIPTION  | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|----------|--|----------------|--------|-----------|------------|
| F-02     | Damp proof course in cement and sand 1:3, 3/4" thick finished with two coats of D.P.C. Bituminous emulsion blinded with river sand.  | m <sup>2</sup> | 170.00 |           |            |
|          | <b>Brick walls</b>   |                |        |           |            |
| F-03     | 112mm thick brick work in 1:5 cement and sand mortar ( Size of the brick should be L=220mm, W=105mm, H≤65mm ).   | m <sup>2</sup> | 160.00 |           |            |
| F-04     | 112mm thick brick work in 1:5 cement and sand mortar ( Size of the brick should be L=220mm, W=105mm, H≤65mm ).   | m <sup>2</sup> | 11.50  |           |            |
| F-05     | Supplying and laying <b>600mmx600mm Matt Ceramic Tiles LAID ON SLANTED BRICK PIERED WALLS</b> similar to existng finishes with diagnal cutting by diamond wheel, grouted the grooves to simialr color exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <b>Price range Rs.1,613.00- Rs.2,303.00</b> | m <sup>2</sup> | 10.00  |           |            |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |        |           |            |
| <b>G</b> | <b>ALUMINIUM WORK</b>  |                |        |           |            |
|          | The contractor shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.   | Note           |        |           |            |
|          | All Aluminium sections shall present clear, straight and sharply defined lines. They shall be free from defects impairing strength, appearance and durability.   | Note           |        |           |            |



| ITEM | DISCRIPTION  | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|--|----------------|-------|-----------|------------|
|      | <p>All aluminium extrusions should have the following properties and the brand should be approved by the Engineer</p> <p>Alloy : AA 6063</p> <p>Minimum Tensile Strength : 150 MPa</p> <p>Minimum Elongation : 7%</p> <p>Surface Treatments</p> <p>(a) Powder coated</p> <p>Coating Thickness : 60~80 micron</p> <p>Colour : To be approved by the Architect/Engineer</p> <p>(b) Anodizing - Natural/ Bronze</p> <p>Coating Thickness : 10~15 micron</p>   | Note           |       |           |            |
|      | <p>The contractor shall submit samples of materials and shop drawings for prior approval</p> <p><b>Doors &amp; Windows</b></p>   | Note           |       |           |            |
| G-01 | <p>Supplying, fabricating and fixing <b>100mm (1.6 +/- 0.1)mm thick aluminum single swing door</b> using approved quality <b>powder coated</b> aluminum extrusions with 5mm thick fixed glass on top, mid rail and bottom <b>4mm thick cladding (double side)</b> as per detailed drawing no.15/12 including door lock, <b>butthings</b>, gaskets, wool felt, beadings, flush bolt, threaded bar with nut roller, C Type 300mm stainless steel door handle, etc. <b>(Door closer not included)</b></p> | m <sup>2</sup> | 2.25  |           |            |
| G-02 | <p>Supplying, fabricating and fixing <b>41mm (1.2mm thick) aluminum casement window with top fixed glass</b> using approved quality <b>powder coated</b> aluminum extrusions and 5mm thick glass as per detailed drawing including casement lock, screws, gaskets, hinges, weather strip, beadings, etc</p>  | m <sup>2</sup> | 22.00 |           |            |

| ITEM                            | DISCRIPTION   | UNIT           | QTY  | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|------|-----------|------------|
| G-03                            | Supplying, fabricating and fixing <b>Shop front (1.2mm thick) aluminum frame with fixed glazed</b> using approved quality <b>powder coated</b> aluminum extrusions with 5mm thick fixed glass as per detailed drawing   | m <sup>2</sup> | 1.80 |           |            |
| G-04                            | Supplying and fixing approved quality door closer   | nr             | 4.00 |           |            |
| G-05                            | Supplying, fabricating and fixing door frame using <b>2" x 1" (1.6 +/- 0.1)mm thick</b> approved quality <b>powder coted</b> aluminum box bar and door sash using <b>1 1/2" x 1" (1.6 +/- 0.1)mm thick</b> approved quality <b>powder coted</b> aluminum box bar with <b>4mm double side cladding board</b> .as per drawing including 1nos Aluminum barrel bolt door handle, butthings, wool felt, beading, stopper bar, threaded bar with nut roller, etc. | m <sup>2</sup> | 1.50 |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |      |           |            |
| <b>H</b>                        | <b>PLASTERING</b>   |                |      |           |            |
|                                 | The Contractor is advised to refer the Drawings,Specification, pricing preambles and the finishes schedule prior to pricing of this section of work.  | Note           |      |           |            |
|                                 | Rates shall include for temporary rules, screeds, ground etc., all normal cutting arises, raking out knots of brck work, hacking knots of concrete, rounded angles and the like, bedding, pointing, forming joints making good between different surfaces, around pipes, sanitary fittings and other fixtures and cleaning down upon completion.  | Note           |      |           |            |

| ITEM | DISCRIPTION  | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|------|--|----------------|--------|-----------|------------|
|      | Extra over provision for narrow widths such as door/ window reveals have not been measured separately for all types of finishes. Rates shall include for narrow widths unless otherwise included in the BOQ.       | Note           |        |           |            |
|      | Rates shall include for builders work in connection with electrical/mechanical installation and plumbing unless measured otherwise.  | Note           |        |           |            |
|      | Ensure that all floor finishes are laid to falls as indicated or towards external sides so as to prevent stagnation of water.  | Note           |        |           |            |
|      | Rates for plaster work shall include for reinforcing joints between different types of construction material (e.g.brick work and concrete work) with 150mm wide galvanized steel mesh as directed by the Engineer. | Note           |        |           |            |
|      | Rates shall include for covering and protection of finishes from weather and construction operation.   | Note           |        |           |            |
|      | <b>Wall Plastering</b>   |                |        |           |            |
| H-01 | <b>20mm thick plaster</b> in 1:3 cement sand mix finished smooth with <b>cement floating. For internal walls of canteen</b>  | m <sup>2</sup> | 185.00 |           |            |
| H-02 | <b>20mm thick plaster</b> in 1:3 cement sand mix finished smooth with <b>cement floating. For canteen internal columns</b>   | m <sup>2</sup> | 42.00  |           |            |
| H-03 | 16mm thick semi rough plaster for walls cement and sand (1:5) plaster finished rough On brick(Externally). Walls sides and top of the windows and walls will be considered in the reveals plastering rates         | m <sup>2</sup> | 155.00 |           |            |



| ITEM                            | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|--------|-----------|------------|
| H-04                            | <b>Preparing door or window reveals )</b> in 12mm thickness to mm thick 1:3 cement sand mortar for external face and , if internal face occurs, with 1:1:5 cement lime sand mix finished with lime putty for internal sides bisecting the window frames with necessary slopes etc., | m              | 125.00 |           |            |
| H-05                            | 10mm thick <b>semi rough plaster</b> for concrete columns / beams in 1:3 cement sand mix finished using trowel  | m <sup>2</sup> | 185.00 |           |            |
| H-06                            | 10mm thick <b>smooth soffit plaster</b> for concrete slabs and beams, staircase in 1:3 cement sand mix finished smooth with lime putty  | m <sup>2</sup> | 510.00 |           |            |
| H-07                            | <b>20mm thick plinth plaster</b> in 1:3 cement sand mix finished smooth with <b>cement floating</b>   | m <sup>2</sup> | 42.00  |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |        |           |            |
| <b>J</b>                        | <b>PAINTING</b>   |                |        |           |            |
|                                 | Rate shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, patching up cracks, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion.                              | Note           |        |           |            |
|                                 | Rate shall include for painting of reveals etc.   | Note           |        |           |            |
|                                 | Rates shall include for protection of floors, fittings and cleaning upon completion.  | Note           |        |           |            |
|                                 | Paint brand should be CIC or equivalent and the approval for brand and colour should be obtained by the Engineer  | Note           |        |           |            |
| J-01                            | Apply two coat of wall potty under the vanity to get smooth finish-   | m <sup>2</sup> | 50.00  |           |            |

| ITEM                            | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|--------|-----------|------------|
| J-02                            | Applying two coats of approved quality <b>polymer modified damp ressistant paint</b> after preparing surface as directed. Application shall be by PU compressor. Color and texture shall be approved by the Engineer. To vanity walls | m <sup>2</sup> | 50.00  |           |            |
| J-03                            | Applying one coat of approved quality wall primer and two coats of approved quality <b>weather shield</b> paint to <b>new walls</b> .   | m <sup>2</sup> | 870.00 |           |            |
| J-04                            | Applying two coats of approved quality <b>floor paint</b> after preparing surface as directed.  | m <sup>2</sup> | 110.00 |           |            |
| J-05                            | Applying two coats of approved quality <b>polymer modified damp ressistant paint to floor</b> after preparing surface as directed. Application shall be by PU compressor. Color and texture shall be approved by the Engineer.        | m <sup>2</sup> | 310.00 |           |            |
| J-06                            | Applying two coats of approved quality <b>polymer modified damp ressistant paint</b> to walls after preparing surface as directed. Application shall be by PU compressor. Color and texture shall be approved by the Engineer.        | m <sup>2</sup> | 230.00 |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |        |           |            |
| <b>K</b>                        | <b>FLOORING</b>   |                |        |           |            |

| ITEM | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|------|---|----------------|--------|-----------|------------|
|      | Locally manufactured Homogeneous floor tiles of approved quality (Rocell or equivalent), colour and variety with all specials in specified areas as per the BOQ straight joints in both ways including all shapes, corner and angles set in 12mm thick cement and sand (1:3) screed bedding with neat cement floating level and to slopes < 15° from horizontal and all joints shall be pointed with coloured tile grout to match with tiles. |                |        |           |            |
| K-01 | Supplying and laying <b>600mmx600mm Homogeneous Floor Tiles</b> with exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,548.00- Rs.2,302.00</i>   | m <sup>2</sup> | 310.00 |           |            |
| K-02 | Supplying and laying <b>100mm high Non Skid Homogeneous Ceramic Floor Tile Skirting</b> with exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,548.00 - Rs.2,302.00</i>  | m              | 105.00 |           |            |
| K-03 | Supplying and laying <b>600mmx600mm Homogeneous Floor Tiles</b> with exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,548.00- Rs.2,302.00. Canteen area</i>   | m <sup>2</sup> | 95.00  |           |            |



| ITEM                            | DISCRIPTION  | UNIT           | QTY   | RATE (Rs)    | AMOUNT(Rs)   |
|---------------------------------|--|----------------|-------|--------------|--------------|
| K-04                            | Supplying and laying <b>100mm high Non Skid Homogeneous Ceramic Floor Tile Skirting</b> with exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,548.00 - Rs.2,302.00. Canteen area</i> | m              | 62.00 |              |              |
| K-05                            | Supplying and laying <b>600mmx300mm Homogeneous Floor Tiles</b> for stair case, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.627.00-Rs. 1,094.00</i>  | m <sup>2</sup> | 40.00 |              |              |
| <b>TOTAL CARRIED TO SUMMARY</b> |  |                |       |              |              |
| <b>L</b>                        | <b>ELECTRICAL WORKS</b>  |                |       |              |              |
| L-01                            | Allow for main panel and SDBs, cables, power supply from sub station   | PS             | 1.00  | 1,500,000.00 | 1,500,000.00 |
| L-01A                           | Supplying and fixing of approved quality 4 Row 56 way Wall mounted Steel Distribution Board to working Order. Enclosure box size not less than 350mm x 650mm x 115mm and material should be Alu Zinc coated metal sheet with powder coated Texture (RAL7032) Surface finished. ICE 60529 (IP54) Standard (Quality & Surface Type should be approved by the engineer)       | Nr             | 1.00  |              |              |

| ITEM | DISCRIPTION  | UNIT  | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|--|-------|-------|-----------|------------|
| L-02 | Supplying and fixing 1800mm long 50mm dia. (1.8 mm) GI earth pipe covered by pits (internal size 450x450) depth up to 600mm with 75mm thick base in 1:3:6(25) con. 115mm Tk. Brick walls and rendering in 1:3 ct. sand mix including forming channel and 50mm tk. removable con. cover in 1:2:4(20) con. reinforced with R6@75mm c/c both way and plastered all exposed surfaces with 1:3 ct. sand mix as per drawing (Must be set to at least 10 ohms Resistance)   | Nr    | 1.00  |           |            |
| L-03 | Supply and installation of 12mm x 1200mm earth electrode with clamp and all other accessories in working order.(Repair works only)   | Nr    | 1.00  |           |            |
| L-04 | Supplying and fixing approved quality 9W soffit mounted L.E.D T8 600mm long bulbs 4 nr per fitting.the fitting is soffit mounted (Sunk or Surface mounted) wired through a 10 Amp switch using 2x1/1.13mm Cu\PVC\PVC (1sq.mm) wires in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings upto 15m. Rate shall include switch, sun box, etc. with 1 Year Manufactured Warranty for bulb and connection. 600mmx600mm lamp fittings deemed to use for flourecent lamps will be provided by the client and the contractor need to rewire to match to LED circuit. (Quality should be approved by the engineer) | bulbs | 80.00 |           |            |



| ITEM | DISCRIPTION  | UNIT  | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|--|-------|-------|-----------|------------|
| L-05 | Supplying and fixing approved quality 12W Ceiling mounted L.E.D Panel lamp (Sunk or Surface mounted) wired through a 10 Amp switch using 2x1/1.13mm Cu\PVC\PVC (1sq.mm) wires in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. Rate shall include switch, sun box, etc. L.E.D Lamp Life Span should be 25000 hrs. ~30000 hrs. and with 2 Year Manufactured Warranty for Complete Product. Without any Complaints of ROHS. Short circuit protection should be include (Quality should be approved by the engineer)   | Nr    | 10.00 |           |            |
| L-06 | Supplying and fixing approved quality 12W soffit mounted L.E.D T5 600mm long bulbs 4 nr per fittng.the fitting is soffit mounted (Sunk or Surface mounted) wired through a 10 Amp switch using 2x1/1.13mm Cu\PVC\PVC (1sq.mm) wires in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings upto 15m. Rate shall include switch, sun box, etc. with 1 Year Manufactured Warranty for bulb and connection. 600mmx600mm lamp fittings deemed to use for flourecent lamps will be provided by the client and the contractor need to rewire to match to LED circuit. (Quality should be approved by the engineer) | bulbs | 40.00 |           |            |



| ITEM | DISCRIPTION  | UNIT | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|--|------|-------|-----------|------------|
| L-07 | Supplying and fixing approved quality Square Pin type - G/13 Amp socket outlet (for the ring circuit or radial circuit) wired through 7/0.67mm Cu\PVC\PVC(T) - 2.5sq.mm wire and 1x7/0.67mm Cu\PVC (2.5sq.mm) earth wire in fully concealed PVC conduits or casing with all specials. supply cables & concealing materials all are including for standerd lenth. (Quality should be approved by the engineer)  | Nr   | 52.00 |           |            |
| L-08 | <p><b>Supplying and fixing approved quality 1400mm sweep ceiling fan Category 02 - For Non Heavy duty Uses</b></p> <p>Supplying and fixing approved quality 1400mm sweep ceiling fan with fan regulator &amp; On/Off by 01 Gang Switch wired through 2x1/1.13mm Cu\PVC\PVC (1sq.mm) wires and 1x7/0.67mm Cu\PVC (2.5sq.mm) earth wire in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. Ceiling fan Should be following Specification. Power Consumption (60W-80W)</p> <p>SLS 814 Compliance<br/>01 Year Manufactured Warranty<br/>Power cut-off Safety Switch<br/>Safety Wired for Fan Motor from Rod Hum free Condenser Type Controller (Quality should be approved by the engineer)</p> <p><b>Prime cost of Fan = Rs.19,000.00 - Rs.20,800.00</b></p> | Nr   | 19.00 |           |            |

| ITEM | DISCRIPTION   | UNIT | QTY    | RATE (Rs) | AMOUNT(Rs) |
|------|---|------|--------|-----------|------------|
| L-09 | Supplying and fixing approved quality 63 Amp/ 4 Pole three phase main switch (M.C.B. type/10kA B.C) to working order (Quality should be approved by the engineer)<br>Product Should Be European or Equivalent.<br><b>Prime Cost of Product -Rs 5,700.00 - Rs.6,000.00</b> | Nr   | 1.00   |           |            |
| L-10 | Supplying and fixing approved quality 63Amp/30mA three phase RCCB (Trip switch) to working order (Quality should be approved by the engineer)<br><b>Prime Cost of Product -Rs 9,800.00 - Rs. 13,900.00</b>  | Nr   | 1.00   |           |            |
| L-11 | Supplying and fixing approved quality 7/0.67mm Cu\PVC (2.5sq.mm) earth wire as directed (concealing materials will be paid separately)  | m    | 210.00 |           |            |
| L-12 | Supplying and fixing approved quality 1 /1.13mm Cu\PVC\PVC(1sq.mm) wire as directed.( Concealing materials will be paid separately )  | m    | 210.00 |           |            |
| L-13 | Supplying and fixing approved quality 1"(25mm) PVC Conduit pipe with all specials. Rate shall include clips nails etc. ( only the additional cost)  | m    | 30.00  |           |            |
| L-14 | Supplying and fixing approved quality 1"(25mm x 16mm) PVC casing with capping as directed. Rate shall include clips nails etc.( only the additional cost)   | m    | 30.00  |           |            |

| ITEM     | DISCRIPTION   | UNIT | QTY   | RATE (Rs)  | AMOUNT(Rs) |
|----------|---|------|-------|------------|------------|
| L-15     | <p>Supplying and fixing approved quality 300x300mm Exhaust fan with Square Pin type - G /13 Amp socket outlet &amp; ON/OFF by the 2pole 20A switch with indicator wired through 7/0.67mm Cu\PVC\PVC(T)- 2.5sq.mm wire and 1x7/0.67mm Cu\PVC (2.5sq.mm) earth wire in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. (For Non Heavy Duty uses) Exhaust fan Should be following Specification<br/>01 Year Manufactured Warranty<br/>Front Side louver protection<br/>Back Side Automatic Shutter<br/>(Quality should be approved by the engineer)<br/><b>Prime cost of Fan = Rs.12,600.00</b></p> | nr   | 2.00  |            |            |
| L-16     | <p>Supplying and fixing approved quality Weather proofed lamp Fitting (Out Door) with point wired through 10 Amp switch using 2x1/1.13mm Cu\PVC\PVC (1sq.mm) wire and 7/0.67 mm Cu/PVC (2.5sq.mm) earth wires in fully concealed PVC conduits with all specials. Surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. Rate shall include switch, sun box, complete lamp fitting, etc. (Quality should be approved by the</p>  | Nr   | 21.00 |            |            |
| L-17     | Allow for services improvements in MEP and builders work  | PS   | 1.00  | 200,000.00 | 200,000.00 |
|          | <b>TOTAL CARRIED TO SUMMARY</b>   |      |       |            |            |
| <b>M</b> | <b>WEATHER TROTS</b>  |      |       |            |            |



| ITEM | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|---|----------------|-------|-----------|------------|
| M-01 | Supply , fabricate, install of canopies of a width of 1000mm on plan along the external column faces with 50mmx100mmx2.3mm GI horizontal memeber fixed to columns and roofing by 0.47mm thick colour coated Zink Aluminum metal roofing sheets/ridging sheet on 100x50x12 2mm galvanized lip panel frame work / suitable structure, with all specials (Brand, Profile and Colour of the sheets should be approved by the engineer), facia with 0.47mm thick Zink Aluminum ridge equivalant sheet to match the colour of the roof. Rate shall include all necessary fasteners, etc. Further, supply & Installation of PVC Panelled Ceiling (Quality and colour shall be approved by the Engineer )underneath the canopy with necessary GI grid structure to complete. (Type, guage of grid shall be approved by the Engineer). | m <sup>2</sup> | 96.00 |           |            |
| M-02 | Supplying, fabricating and fixing <b>Shop front (1.2mm thick) aluminum frame with fixed glazed</b> on metal horizontal member of a span of 2.7m or 5.7m using approved quality <b>powder coated</b> aluminum extrusions with 5mm thick fixed glass as per detailed drawing (payemt for horizontal member will be paid under BoQ item M-01)  | m <sup>2</sup> | 36.00 |           |            |

| ITEM     | DISCRIPTION  | UNIT | QTY   | RATE (Rs) | AMOUNT(Rs) |
|----------|--|------|-------|-----------|------------|
| M-03     | Supplying and fixing approx 1.0m lengh steel mast to canopies from columns with <b>1½" diameter G. I. Pipes</b> (2.3mm thick: +/- 10%) as directed with necessary wallplate with of 3mm thk MS plate , minimum 2nrs of 12mm dia anchors/ or other acceptable means and connected to columns, applied with one coat of primer, painted with two coats of anti corrosive paint to a colr of black mat finish   | m    | 30.00 |           |            |
| M-04     | Allow for additional improvements in canopy and fixed glass panels for services etc.,  | PS   | 1.00  | 50,000.00 | 50,000.00  |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |      |       |           |            |
| <b>N</b> | <b>PLUMBING WORK</b>   |      |       |           |            |
|          | <b>These plumbing rates shall be used for building construction and repair works only.</b> All PVC pipes and fittings shall be of best quality of an approved manufacture. All pipes shall be measured in linear meters and rates shall include pipe fittings and extras where stated, solder, rivets, screws, nails, clips, brackets, straps, holder bats, made bends, if any etc., all laps, straight cutting and wastages, solvent cement and incidental materials and labour on joining pipes, chasing in brickwork, concrete surface and making good. |      |       |           |            |
| N-01     | Supplying and fixing <b>20mm (1/2") bib tap</b> - Chromium plated. <b>Prime Cost Rs.2,520.00</b>   | nr   | 1.00  |           |            |
| N-02     | Supplying and fixing <b>20mm (1/2") angle valve</b> - Chromium plated  | nr   | 3.00  |           |            |
| N-03     | Supplying and fixing <b>20mm (1/2") gate valve</b> - Brass   | nr   | 3.00  |           |            |



| ITEM             | DISCRIPTION  | UNIT | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------------------|--|------|-------|-----------|------------|
| N-04             | Supplying and laying <b>32mm (1")</b> (PNT11) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 30.00 |           |            |
| N-05             | Supplying and laying <b>25mm (3/4")</b> (PNT11) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 4.00  |           |            |
| N-06             | Supplying and laying <b>20mm (1/2")</b> (PNT14) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 60.00 |           |            |
| N-07             | Supplying and laying <b>40mm (1 1/4")</b> (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.   | m    | 12.00 |           |            |
| N-08             | Supplying and laying <b>110mm (4")</b> (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 42.00 |           |            |
| N-09             | Supplying and laying <b>63mm (2")</b> (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.   | m    | 3.00  |           |            |
| N-10             | Allow for builders work  | PS   | 1.00  | 70,000.00 | 70,000.00  |
| <b>SUB TOTAL</b> |  |      |       |           |            |
| <b>P</b>         | <b>SANITARY FITTINGS</b>   |      |       |           |            |
|                  | All sanitary fixtures shall be of best quality of an approved manufacture. Rates of sanitary appliances shall include for fixing to brickwork or to concrete work with all necessary brackets, plugs, screws,etc as shown in construction drawings or as directed by the engineer. |      |       |           |            |



| ITEM | DISCRIPTION  | UNIT      | QTY  | RATE (Rs) | AMOUNT(Rs) |
|------|--|-----------|------|-----------|------------|
| P-01 | Supplying and fixing 900mmx400mm approved quality and shape of <b>Deep stainless steel wsh basin with single drain board</b> including 3nrs 20mm (1/2") heavy quality chromium plated swan tap with water supply and waste water connection (Quality of sink and tap should be approved by the engineer and similar to existng in the university)  | nr        | 3.00 |           |            |
| P-02 | Supplying and fixing 900mmx450mm approved quality <b>stainless steel kitchen sink with single bowl and single drain board</b> including 20mm (1/2") heavy quality chromium plated swan tap with water supply and waste water connection (Quality of sink and tap should be approved by the engineer)   | nr        | 2.00 |           |            |
| P-03 | Supplying and fixing <b>ceramic closed couple water closet (Commode)</b> with seat cover,trap,20mm (1/2") chromium plated angle valve, flexible horse etc. to working order. Minimum 10 year warranty on ceramic ware to be available with manufacturers. (Ideal Standard, American Standard, or equivalent quality complying to British Standard approved by the engineer) <b>prime cost of ceramic closed couple water closet American &amp;British- Rs.48,260.00 - Rs.38,085.00</b> | rate only |      |           |            |
| P-04 | Supplying and fixing approved quality <b>40mm Bottle Trap</b> as directed (Quality should be approved by the engineer)   | nr        | 5.00 |           |            |

| ITEM     | DISCRIPTION   | UNIT | QTY  | RATE (Rs) | AMOUNT(Rs) |
|----------|---|------|------|-----------|------------|
| P-05     | Supplying and fixing approved quality <b>Chromium plated Bidet shower</b> with 20mm(1/2") angle valve - chromium plated as directed. <i>Prime cost of Bidet shower Rs.3,805.00 and approved by the engineer</i> | nr   | 3.00 |           |            |
|          |   |      |      |           |            |
| P-06     | Supplying and fixing approved quality 450x600mm (rectangular or oval shaped) <b>bathroom mirror</b> as directed (Quality should be approved by the engineer)  | nr   | 3.00 |           |            |
|          |   |      |      |           |            |
| P-07     | Supplying and fixing approved quality <b>Chromium Plated Soap Tray</b> as directed (Quality should be approved by the engineer)   | nr   | 3.00 |           |            |
|          |   |      |      |           |            |
| P-08     | Supplying and fixing approved quality <b>Chromium Plated 600mm Towel Rail</b> as directed (Quality should be approved by the engineer)  | nr   | 2.00 |           |            |
|          |   |      |      |           |            |
| P-09     | Allow for builders work and other neccessary accessories  | PS   | 1.00 | 60,000.00 | 60,000.00  |
|          |   |      |      |           | -          |
|          | <b>SUB TOTAL</b>  |      |      |           |            |
|          |   |      |      |           |            |
| <b>Q</b> | <b>FIRE DETECTION AND PROTECTION</b>  |      |      |           |            |
| Q-01     | Supply and installation of Exit Sign board (type -non battery back up)  | Nr   | 1.00 |           |            |
| Q-02     | Supply and installation of fire extinguishers of following type (type - battery back up)<br>Co <sub>2</sub> -2kg  | Nr   | 1.00 |           |            |
| Q-03     | Dry powder 6kg  | Nr   | 1.00 |           |            |
| Q-04     | Water 9 litrea  | Nr   | 1.00 |           |            |
|          | <b>SUB TOTAL</b>  |      |      |           |            |
|          |   |      |      |           |            |
| <b>R</b> | <b>METAL WORK</b>   |      |      |           |            |



| ITEM     | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|----------|---|----------------|-------|-----------|------------|
| R-01     | Supply and installation of 0.6mm thk Zn/Al powder coated roller door with covered canopy for rolling panel includeing necessary C chanel with minimum of one year warrenty. Type of profile, color and quality shall be approved by the Engineer  | m <sup>2</sup> | 5.75  |           |            |
| R-02     | Supply, fabrigate and installation of GI guard rail sas per the detailed drawing with 50mmx75mmx2.0mm horizontal members at approx 900mm intervals, uprights at approx 900mm with 50mmx75mmx2.0mm, diagnal members with 50mmx50mmx2.0mm GI section welded to each members, anchored to wall and columns with necessary anchor bolts and base plates, with approx 100mm clearance between floor level and lower horizontal member, with one coat of primer and two coats of anticorrosive paint with black mat texture | m              | 95.00 |           |            |
|          | <b>SUB TOTAL</b>  |                |       |           |            |
| <b>S</b> | <b>CARPENTORY WORK</b>  |                |       |           |            |
|          | The dimensions indicated in the description are the finished sized of timber members and only ±5% deviation can be allowed.   | Note           |       |           |            |
| S-01     | Supplying and fixing <b>25mm thick ledged, braced and battened door</b> sash with grooved and tongued joints in special class timber with 100x75mm frame in special class timber complete with brass or equivalent approved quality furniture including 2nr of 150mm long Barrel bolt and one coat of wood primer and two coats of enamel painting to wood work. ( Type and brand of door lock to be decided according to type of work and to be paid separately)   | m <sup>2</sup> | 3.90  |           |            |



| ITEM     | DISCRIPTION  | UNIT           | QTY  | RATE (Rs)    | AMOUNT(Rs)          |
|----------|--|----------------|------|--------------|---------------------|
| S-02     | Supplying and fixing <b>25mm thick ledged, braced and battened door</b> sashes at top and bottom as half doors to single door frame with grooved and tongued joints in special class timber with 100x75mm frame in special class timber complete with brass or equivalent approved quality furniture including 3nr of 150mm long Barrel bolt and one coat of wood primer and two coats of enamel painting to wood work. ( Type and brand of door lock to be decided according to type of work and to be paid separately) | m <sup>2</sup> | 1.70 |              |                     |
|          | <b>SUB TOTAL</b>   |                |      |              |                     |
| <b>T</b> | <b>HOT AIR EXHAUST SYSTEM</b>  |                |      |              |                     |
| T-01     | Allow for hot air and smoke exaution and service improvements  | PS             | 1.00 | 1,000,000.00 | 1,000,000.00        |
|          | <b>SUB TOTAL</b>   |                |      |              | <b>1,000,000.00</b> |

### BILL OF QUANTITIES

| ITEM | DISCRIPTION  | UNIT                         | QTY  | RATE (Rs) | AMOUNT(Rs) |
|------|--|------------------------------|------|-----------|------------|
| C    | <p><b>CONCRETE</b></p> <p>The Contractor shall refer the followings prior to pricing the items in this trade.</p> <ul style="list-style-type: none"> <li>a. All relevant drawings</li> <li>b. Specifications</li> <li>c. Pricing preambles</li> <li>d. Location</li> </ul> <p>All concrete shall be made dense with a vibrator. Rate shall include for plant for mixing , handling, hoisting, depositing, compacting ,vibrating and curing making good after removal of form work and for any tests when necessary.</p> <p>OPC cement complied with relevent Sri Lanka standards and approved by Engineer shall be used.</p> <p>Rate shall include for mixing, placing, compacting with porker vibrator, levelling and curing.</p> <p><b>Reinforced in-situ Grade 25 concrete (R/F paid seperately) foundation level to roof level</b></p> | note<br><br>note<br><br>note |      |           |            |
| C-01 | Column shaft   | m <sup>3</sup>               | 5.10 |           |            |
| C-02 | Ramp   | m <sup>3</sup>               | 0.60 |           |            |
|      | <b>Lintels</b>   |                              |      |           |            |
| C-03 | <b>112x150mm Lintels</b> in 1:2:4(20mm) cement concrete including formwork ( Reinforcement will be paid separately).   | m                            | 7.00 |           |            |
| C-04 | Grade 20 concrete 225x150mm size R.C.C. lintels. Rate shall include for form work, concrete work( Reinforcement will be paid separately).  | m                            | 6.00 |           |            |

| ITEM     | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|----------|---|----------------|-------|-----------|------------|
|          | <b>Sill beams &amp; Stiffeners</b>  |                |       |           |            |
| C-05     | <b>112x75mm Window sill</b> in 1:2:4(20mm) cement concrete including formwork ( Reinforcement will be paid separately).   | m              | 3.00  |           |            |
| C-06     | <b>112x150mm stiffness columns</b> in 1:2:4(20mm) cement concrete including formwork (Reinforcement will be paid separately).   | m              | 13.50 |           |            |
| C-07     | <b>75mm thk concrete</b> in 1:2:4(20mm) cement concrete for work tops   | m <sup>3</sup> | 1.10  |           |            |
|          | <b>TOTAL CARRIED TO SUMMARY</b>   |                |       |           |            |
| <b>D</b> | <b>FORM WORK</b><br><br>Form work shall be provided with adequate struts, braces, ties, clamps and the like so as to maintain the dimensions, lines and levels shown in the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging under the weight of wet concrete including any other supper imposed loads which would be subjected to during construction.<br><br><b>from 1st floor slab to roof level</b> | note           |       |           |            |
| D-01     | Column shaft  | m <sup>2</sup> | 80.00 |           |            |
| D-02     | Ramp  | m <sup>2</sup> | 1.50  |           |            |
| D-03     | Supplying, fabricating, fixing and removing formwork using <b>18 mm thick plywood sheets for worktops</b>   | m <sup>2</sup> | 15.00 |           |            |
|          | <b>TOTAL CARRIED TO SUMMARY</b>   |                |       |           |            |
| <b>E</b> | <b>REINFORCEMENT</b><br><br>Steel bar reinforcement cut, bend, place and tie in position as reinforcement to RCC work. Tor Steel characteristic strength 460 N/mm2 and Mild Steel characteristic strength 250 N/mm2 to be used as reinforcement to RCC works.   | note           |       |           |            |



| ITEM                            | DISCRIPTION   | UNIT                                | QTY      | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|-------------------------------------|----------|-----------|------------|
|                                 | <p>Rates shall be included for cutting, bending, fabricating, placing in position, holding and temporary fixing supports. Ex:chairs, benches, stools, spaces, ties, hangers and binding wires.</p> <p>Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Tor Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.</p> <p><b>from 1st floor level to roof level</b></p>   | note                                |          |           |            |
| E-01                            | Column shaft  | kg                                  | 1,080.00 |           |            |
| E-02                            | Ramp  | kg                                  | 10.00    |           |            |
| E-03                            | lintols, stiffner columns, and stiffner beams   | kg                                  | 50.00    |           |            |
| E-04                            | Window sills  | kg                                  | 5.00     |           |            |
| E-05                            | counter slabs/ work tops -with Tor Steel  | kg                                  | 80.00    |           |            |
|                                 | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Mild Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.   |                                     |          |           |            |
| E-06                            | Mild Steel  | kg                                  | 260.00   |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                                     |          |           |            |
| <b>F</b>                        | <p><b>MASONARY WORK</b></p> <p>The Contractor shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.</p> <p>Rates for masonry works shall include for plus</p> <p>Rate shall include for all necessary types of scaffolding whether specified separately or not.</p> <p>External surfaces of brick work shall complete to a levelled &amp; even surface to receive cladding frame work without any plastering work to walls.</p> <p><b>Brick walls</b></p> | <p>Note</p> <p>Note</p> <p>Note</p> |          |           |            |

| ITEM                            | DISCRIPTION   | UNIT                         | QTY   | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|------------------------------|-------|-----------|------------|
| F-01                            | 112mm thick brick work in 1:5 cement and sand mortar ( Size of the brick should be L=220mm, W=105mm, H≤65mm ).  | m <sup>2</sup>               | 80.00 |           |            |
| F-02                            | 112mm thick brick work in 1:5 cement and sand mortar ( Size of the brick should be L=220mm, W=105mm, H≤65mm ).  | m <sup>2</sup>               | 4.00  |           |            |
| F-03                            | Supplying and laying <b>600mmx600mm Matt Ceramic Tiles LAID ON SLANTED BRICK PIERED WALLS</b> similar to existitng finishes with diagnal cutting by diamond wheel, grouted the grooves to simialr color exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,613.00-Rs.2,303.00</i>   | m <sup>2</sup>               | 10.00 |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                              |       |           |            |
| <b>G</b>                        | <b>ALUMINIUM WORK</b><br><br>The contractor shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.<br><br>All Aluminium sections shall present clear, straight and sharply defined lines. They shall be free from defects impairing strength, appearance and durability.<br><br>All aluminium extrusions should have the following properties and the brand should be approved by the Engineer<br>Alloy : AA 6063<br>Minimum Tensile Strength : 150 MPa<br>Minimum Elongation : 7%<br>Surface Treatments<br>(a) Powder coated<br>Coating Thickness : 60~80 micron<br>Colour : To be approved by the Architect/ Engineer (b)<br>Anodizing - Natural/ Bronze<br>Coating Thickness : 10~15 micron | Note<br><br>Note<br><br>Note |       |           |            |

| ITEM                            | DISCRIPTION   | UNIT           | QTY  | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|------|-----------|------------|
|                                 | The contractor shall submit samples of materials and shop drawings for prior approval   | Note           |      |           |            |
|                                 | <b>Doors &amp; Windows</b>  |                |      |           |            |
| G-01                            | Supplying, fabricating and fixing <b>41mm (1.2mm thick) aluminum casement window with top fixed glass</b> using approved quality <b>powder coated</b> aluminum extrusions and 5mm thick glass as per detailed drawing including casement lock, screws, gaskets, hinges, weather strip, beadings,etc   | m <sup>2</sup> | 1.35 |           |            |
| G-02                            | Supplying and fixing approved quality door closer   | nr             | 1.00 |           |            |
| G-03                            | Supplying, fabricating and fixing door frame using <b>2" x 1" (1.6 +/- 0.1)mm thick</b> approved quality <b>powder coted</b> aluminum box bar and door sash using <b>1 1/2" x 1" (1.6 +/- 0.1)mm thick</b> approved quality <b>powder coted</b> aluminum box bar with <b>4mm double side cladding board</b> .as per drawing including 1nos Aluminum barrel bolt door handle, butthingses, wool felt, beading, stopper bar, threaded bar with nut roller, etc. | m <sup>2</sup> | 1.50 |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |      |           |            |
| <b>H</b>                        | <b>PLASTERING</b>   |                |      |           |            |
|                                 | The Contractor is advised to refer the Drawings,Specification, pricing preambles and the finishes schedule prior to pricing of this section of work.  | Note           |      |           |            |
|                                 | Rates shall include for temporary rules, screeds, ground etc., all normal cutting arises, raking out knots of brck work, hacking knots of concrete, rounded angles and the like, bedding, pointing, forming joints making good between different surfaces, around pipes, sanitary fittings and other fixtures and cleaning down upon completion.  | Note           |      |           |            |



| ITEM | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|---|----------------|-------|-----------|------------|
|      | Extra over provision for narrow widths such as door/ window reveals have not been measured separately for all types of finishes. Rates shall include for narrow widths unless otherwise included in the BOQ.  | Note           |       |           |            |
|      | Rates shall include for builders work in connection with the above  | Note           |       |           |            |
|      | Ensure that all floor finishes are laid to falls as directed by the Engineer.   | Note           |       |           |            |
|      | Rates for plaster work shall include for reinforcing joints between different types of construction material (c.g.brick work and concrete work) with 150mm wide galvanized steel mesh as directed by the Engineer.  | Note           |       |           |            |
|      | Rates shall include for covering and protection of finishes from weather and construction operation.  | Note           |       |           |            |
|      | <b>Wall Plastering</b>  |                |       |           |            |
| H-01 | 16mm thick <b>smooth plaster</b> for walls in 1:1:5 cement lime sand mix finished smooth with lime putty. Display centre int walls  | m <sup>2</sup> | 65.00 |           |            |
| H-02 | 10mm thick <b>smooth plaster</b> for concrete columns / beams in 1:3 cement sand mix finished smooth with lime putty. Display centre int columns  | m <sup>2</sup> | 3.00  |           |            |
| H-03 | 16mm thick semi rough plaster for walls cement and sand (1:5) plaster finished rough On brick(Externally). Walls sides and top of the windows and walls will be considered in the reveals plastering rates  | m <sup>2</sup> | 96.00 |           |            |
| H-04 | <b>Preparing door or window reveals )</b> in 12mm thickness to mm thick 1:3 cement sand mortar for external face and , if internal face occurs, with 1:1:5 cement lime sand mix finished with lime putty for internal sides bisecting the window frames with necessary slopes etc., | m              | 55.00 |           |            |
| H-05 | 10mm thick <b>semi rough plaster</b> for concrete columns / beams in 1:3 cement sand mix finished using trowel  | m <sup>2</sup> | 82.00 |           |            |

| ITEM     | DISCRIPTION  | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|----------|--|----------------|--------|-----------|------------|
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |        |           |            |
| <b>J</b> | <b>PAINTING</b>  |                |        |           |            |
|          | Rate shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, patching up cracks, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion. | Note           |        |           |            |
|          | Rate shall include for painting of reveals etc.  | Note           |        |           |            |
|          | Rates shall include for protection of floors, fittings and cleaning upon completion.   | Note           |        |           |            |
|          | Paint brand should be CIC or equivalent and the approval for brand and colour should be obtained by the Engineer   | Note           |        |           |            |
| J-01     | Apply two coat of wall potty under the vanity to get smooth finish-  | m <sup>2</sup> | 16.00  |           |            |
| J-02     | Applying two coats of approved quality <b>polymer modified damp ressistant paint</b> after preparing surface as directed. Application shall be by PU compressor. Color and texture shall be approved by the Engineer. To vanity walls                  | m <sup>2</sup> | 13.00  |           |            |
| J-03     | Applying one coat of approved quality wall primer and two coats of approved quality <b>weather shield</b> paint to <b>new walls</b> .  | m <sup>2</sup> | 190.00 |           |            |
| J-04     | Applying two coats of approved quality <b>floor paint</b> after preparing surface as directed.   | m <sup>2</sup> | 4.00   |           |            |
| J-05     | Applying two coats of approved quality <b>polymer modified damp ressistant paint</b> to floor after preparing surface as directed. Application shall be by PU compressor. Color and texture shall be approved by the Engineer.                         | m <sup>2</sup> | 365.00 |           |            |

| ITEM     | DISCRIPTION  | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|----------|--|----------------|--------|-----------|------------|
| J-06     | Applying two coats of approved quality <b>polymer modified damp ressistant paint to walls</b> after preparing surface as directed. Application shall be by PU compressor. Color and texture shall be approved by the Engineer.   | m <sup>2</sup> | 4.00   |           |            |
|          |  |                |        |           |            |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |        |           |            |
| <b>K</b> | <b>FLOORING</b><br><br>Locally manufactured Homogeneous floor tiles of approved quality (Rocell or equivalent), colour and variety with all specials in specified areas as per the BOQ straight joints in both ways including all shapes, corner and angles set in 12mm thick cement and sand (1:3) screed bedding with neat cement floating level and to slopes < 15° from horizontal and all joints shall be pointed with coloured tile grout to match with tiles. |                |        |           |            |
| K-01     | Supplying and laying <b>600mmx600mm Homogeneous Floor Tiles</b> with exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,548.00- Rs.2,302.00</i>  | m <sup>2</sup> | 380.00 |           |            |
| K-02     | Supplying and laying <b>100mm high Non Skid Homogeneous Ceramic Floor Tile Skirting</b> with exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <i>Price range Rs.1,548.00 - Rs.2,302.00</i>   | m              | 68.00  |           |            |
|          |  |                |        |           |            |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |        |           |            |
| <b>L</b> | <b>ELECTRICAL WORKS</b>  |                |        |           |            |



| ITEM | DISCRIPTION   | UNIT  | QTY    | RATE (Rs)  | AMOUNT(Rs) |
|------|---|-------|--------|------------|------------|
| L-01 | Allow for main panel and SDBs, cables, power supply from sub station  | PS    | 1.00   | 400,000.00 | 400,000.00 |
| L-02 | Supplying and fixing of approved quality 4 Row 56 way Wall mounted Steel Distribution Board to working Order. Enclosure box size not less than 350mm x 650mm x 115mm and material should be Alu Zinc coated metal sheet with powder coated Texture (RAL7032) Surface finished. ICE 60529 (IP54) Standard (Quality & Surface Type should be approved by the engineer)  | Nr    | 2.00   |            |            |
| L-03 | Supplying and fixing approved quality 12W soffit mounted L.E.D T5 600mm long bulbs 4 nr per fitting, the fitting is soffit mounted (Sunk or Surface mounted) wired through a 10 Amp switch using 2x1/1.13mm Cu/PVC/PVC (1sq.mm) wires in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional charges NOT allow for PVC casings upto 15m. Rate shall include switch, sun box, etc. with 1 Year Manufactured Warranty for bulb and connection. 600mmx600mm lamp fittings deemed to use for flourecent lamps will be provided by the client and the contractor need to rewire to match to LED circuit. (Quality should be approved by the engineer) | bulbs | 160.00 |            |            |
| L-04 | Supplying and fixing approved quality Square Pin type - G/13 Amp socket outlet (for the ring circuit or radial circuit) wired through 7/0.67mm Cu/PVC/PVC(T) - 2.5sq.mm wire and 1x7/0.67mm Cu/PVC (2.5sq.mm) earth wire in fully concealed PVC conduits or casing with all specials. supply cables & concealing materials all are including for standerd lenth. (Quality should be approved by the engineer)   | Nr    | 33.00  |            |            |

| ITEM | DISCRIPTION  | UNIT | QTY    | RATE (Rs) | AMOUNT(Rs) |
|------|--|------|--------|-----------|------------|
| L-05 | <b>Supplying and fixing approved quality 1400mm sweep ceiling fan Category 02 - For Non Heavy duty Uses</b><br>Supplying and fixing approved quality 1400mm sweep ceiling fan with fan regulator & On/Off by 01 Gang Switch wired through 2x1/1.13mm Cu/PVC/PVC (1sq.mm) wires and 1x7/0.67mm Cu/PVC (2.5sq.mm) earth wire in fully concealed PVC conduits with all specials. surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. Ceiling fan Should be following Specification. Power Consumption (60W-80W)<br>SLS 814 Compliance<br>01 Year Manufactured Warranty<br>Power cut-off Safety Switch<br>Safety Wired for Fan Motor from Rod<br>Hum free Condenser Type Controller<br>(Quality should be approved by the engineer)<br><i>Prime cost of Fan = Rs.19,000.00 - Rs.20,800.00</i> | Nr   | 19.00  |           |            |
| L-06 | Supplying and fixing approved quality 63 Amp/ 4 Pole three phase main switch (M.C.B. type/10kA B.C) to working order (Quality should be approved by the engineer)<br>Product Should Be European or Equivalent.<br><i>Prime Cost of Product -Rs 5,700.00 - Rs.6,000.00</i>  | Nr   | 1.00   |           |            |
| L-07 | Supplying and fixing approved quality 63Amp/30mA three phase RCCB (Trip switch) to working order (Quality should be approved by the engineer)<br><i>Prime Cost of Product -Rs 9,800.00 - Rs. 13,900.00</i>   | Nr   | 1.00   |           |            |
| L-08 | Supplying and fixing approved quality 7/0.67mm Cu/PVC (2.5sq.mm) earth wire as directed (concealing materials will be paid separately)   | m    | 140.00 |           |            |

| ITEM                            | DISCRIPTION  | UNIT | QTY    | RATE (Rs)  | AMOUNT(Rs) |
|---------------------------------|--|------|--------|------------|------------|
| L-09                            | Supplying and fixing approved quality 1 /1.13mm Cu/PVC/PVC(1sq.mm) wire as directed.( Concealing materials will be paid separately )   | m    | 140.00 |            |            |
| L-10                            | Supplying and fixing approved quality 1"(25mm) PVC Conduit pipe with all specials. Rate shall include clips nails etc. ( only the additional cost)   | m    | 30.00  |            |            |
| L-11                            | Supplying and fixing approved quality 1"(25mm x 16mm) PVC casing with capping as directed. Rate shall include clips nails etc.( only the additional cost)  | m    | 30.00  |            |            |
| L-12                            | Supplying and fixing approved quality Weather proofed lamp Fitting (Out Door) with point wired through 10 Amp switch using 2x1/1.13mm Cu/PVC/PVC (1sq.mm) wire and 7/0.67 mm Cu/PVC (2.5sq.mm) earth wires in fully concealed PVC conduits with all specials. Surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. Rate shall include switch, sun box, complete lamp fitting, etc. (Quality should be approved by the engineer) bulb will be paid separately. <i>Prime cost of Fitting = R.s. 1,907.00</i> | Nr   | 24.00  |            |            |
| L-13                            | Allow for services improvements in MEP and builders work   | PS   | 1.00   | 200,000.00 | 200,000.00 |
| <b>TOTAL CARRIED TO SUMMARY</b> |  |      |        |            |            |
| <b>M</b>                        | <b>ROOF AND ROOF PLUMBING</b>  |      |        |            |            |



| ITEM | DISCRIPTION  | UNIT           | QTY    | RATE (Rs)  | AMOUNT(Rs) |
|------|--|----------------|--------|------------|------------|
| M-01 | Supplying, fabricating and fixing <b>Steel Roof Truss of 40'-0" span</b> using 75mmx150mmx7mm thk universal I sections supported with 12mm thk gusset plate 250mm x 150mm with 18mm bolts 6 nrs , 550mm min long HD bolts to columns, Ridge to connect with 10mm thk MS plate with 8 nos of 18mm nut and bolts with 150mmx75mm honge at mid span with a length up to 1800mm as per the detail drawing. Structural welding need to be done to all joints and connections in addition to plate connections by anchors. Apply 2 coats of anticorrosive paint to all steel work. Rate shall include necessary cleats for fixing purling and rag bolts, necessary bolts and nuts, pressure plates and truss plates as directed by the engineer. | Nr             | 11.00  |            |            |
| M-02 | Supplying and roofing with <b>0.47mm thick colour coated Zink Aluminum metal roofing sheets on 100x50x2mm galvanized lip panel</b> at maximum spacing of 900mm center to center frame work with all specials (Brand, Profile and Colour of the sheets should be approved by the engineer).   | m <sup>2</sup> | 495.00 |            |            |
| M-03 | Allow for additional stabilization of roof structure   | PS             | 1.00   | 200,000.00 | 200,000.00 |
| M-04 | Supplying and fixing 0.47mm thick <b>Zink Aluminum ridge capping</b> of girth 470mm to match the colour of the roof. Rate shall include all necessary fasteners, etc.  | m              | 61.00  |            |            |
| M-05 | Supplying and fixing 0.47 mm thick Zink Aluminum rainwater <b>eave gutters of girth 450~700mm</b> as directed. Rate shall include lap lengths, gutter brackets, endplates, expansion joints, etc   | m              | 95.00  |            |            |
| M-06 | Supplying and fixing <b>100x100mm Zink Aluminum colour coated down pipes</b> as directed. Rate shall include all necessary nozzles, offsets, bends, clips, etc   | m              | 88.00  |            |            |
| M-07 | Allow for additional roof and roof plumbing services improvements etc.,  | PS             | 1.00   | 100,000.00 | 100,000.00 |
|      |  |                |        |            |            |

| ITEM     | DISCRIPTION   | UNIT | QTY   | RATE (Rs) | AMOUNT(Rs) |
|----------|---|------|-------|-----------|------------|
|          | <b>TOTAL CARRIED TO SUMMARY</b>   |      |       |           |            |
| <b>N</b> | <b>PLUMBING WORK</b>  |      |       |           |            |
|          | These plumbing rates shall be used for building construction and repair works only. All PVC pipes and fittings shall be of best quality of an approved manufacture. All pipes shall be measured in linear meters and rates shall include pipe fittings and extras where stated, solder, rivets, screws, nails, clips, brackets, straps, holder bats, made bends, if any etc., all laps, straight cutting and wastages, solvent cement and incidental materials and labour on joining pipes, chasing in brickwork, concrete surface and making good. |      |       |           |            |
| N-01     | Supplying and fixing 20mm (1/2") bib tap - Chromium plated. <i>Prime Cost Rs.2,520.00</i>   | nr   | 1.00  |           |            |
| N-02     | Supplying and fixing 20mm (1/2") angle valve - Chromium plated  | nr   | 3.00  |           |            |
| N-03     | Supplying and fixing 20mm (1/2") gate valve - Brass   | nr   | 3.00  |           |            |
| N-04     | Supplying and laying 32mm (1") (PNT11) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 1.00  |           |            |
| N-05     | Supplying and laying 25mm (3/4") (PNT11) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 10.00 |           |            |
| N-06     | Supplying and laying 20mm (1/2") (PNT14) or Equivalent PVC pipes with all specials rate included pressure testing etc.  | m    | 20.00 |           |            |
| N-07     | Supplying and laying 40mm (1 1/4") (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.   | m    | 12.00 |           |            |
| N-08     | Supplying and laying 63mm (2") (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.   | m    | 12.00 |           |            |
| N-09     | Allow for builders work   | PS   | 1.00  | 50,000.00 | 50,000.00  |
|          |   |      |       |           | -          |



| ITEM     | DISCRIPTION  | UNIT      | QTY  | RATE (Rs) | AMOUNT(Rs) |
|----------|--|-----------|------|-----------|------------|
|          | <b>SUB TOTAL</b>   |           |      |           |            |
| <b>P</b> | <b>SANITARY FITTINGS</b>   |           |      |           |            |
|          | All sanitary fixtures shall be of best quality of an approved manufacture. Rates of sanitary appliances shall include for fixing to brickwork or to concrete work with all necessary brackets, plugs, screws,etc as shown in construction drawings or as directed by the engineer.   |           |      |           |            |
| P-01     | Supplying and fixing 900mmx400mm approved quality and shape of <b>Deep stainless steel wsh basin with single drain board</b> including 3nrs 20mm (1/2") heavy quality chromium plated swan tap with water supply and waste water connection (Quality of sink and tap should be approved by the engineer and similar to existng in the university   | nr        | 2.00 |           |            |
| P-02     | Supplying and fixing 900mmx450mm approved quality <b>stainless steel kitchen sink with single bowl and single drain board</b> including 20mm (1/2") heavy quality chromium plated swan tap with water supply and waste water connection (Quality of sink and tap should be approved by the engineer)   | nr        | 1.00 |           |            |
| P-03     | Supplying and fixing <b>ceramic closed couple water closet (Commode)</b> with seat cover,trap,20mm (1/2") chromium plated angle valve, flexible horse etc. to working order. Minimum 10 year warranty on ceramic ware to be available with manufacturers. (Ideal Standard, American Standard, or equivalent quality complying to British Standard approved by the engineer) <i>prime cost of ceramic closed couple water closet American &amp; British-Rs.48,260.00 - Rs.38,085.00</i> | rate only |      |           |            |
| P-04     | Supplying and fixing approved quality <b>40mm Bottle Trap</b> as directed (Quality should be approved by the engineer)   | nr        | 1.00 |           |            |



| ITEM     | DISCRIPTION   | UNIT           | QTY  | RATE (Rs) | AMOUNT(Rs) |
|----------|---|----------------|------|-----------|------------|
| P-05     | Supplying and fixing approved quality 450x600mm (rectangular or oval shaped) <b>bathroom mirror</b> as directed (Quality should be approved by the engineer)                            | nr             | 2.00 |           |            |
| P-06     | Supplying and fixing approved quality <b>Chromium Plated Soap Tray</b> as directed (Quality should be approved by the engineer)   | nr             | 2.00 |           |            |
| P-07     | Allow for builders work and other neccessary accessories  | PS             | 1.00 | 40,000.00 | 40,000.00  |
|          | <b>SUB TOTAL</b>  |                |      |           |            |
| <b>Q</b> | <b>FIRE DETECTION AND PROTECTION</b>  |                |      |           |            |
| Q-01     | Supply and installation of Exit Sign board (type -non battery back up)  | Nr             | 1.00 |           |            |
| Q-02     | Supply and installation of fire extinguishers of following type (type - battery back up)<br>Co <sub>2</sub> -2kg  | Nr             | 1.00 |           |            |
| Q-03     | Dry powder 6kg  | Nr             | 1.00 |           |            |
| Q-04     | Water 9 litrea  | Nr             | 1.00 |           |            |
|          | <b>SUB TOTAL</b>  |                |      |           |            |
| <b>R</b> | <b>METAL WORK</b>   |                |      |           |            |
| R-01     | Supply and installation of GI powder coated roller door with wrapping allowance for motor and folded portion with one year warrenty. Type and quality shall be approved by the Engineer | m <sup>2</sup> | 4.50 |           |            |

| ITEM     | DISCRIPTION   | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|----------|---|----------------|-------|-----------|------------|
| R-02     | Supply, fabrigate and installation of GI guard rail sas per the detailed drawing with 50mmx75mmx2.0mm horizontal members at approx 900mm intervals, uprights at approx 900mm with 50mmx75mmx2.0mm, diagnal members with 50mmx50mmx2.0mm GI section welded to each members, anchored to wall and columns with necessary anchor bolts and base plates, with approx 100mm clearance between floor level and lower horizontal member, with one coat of primer and two coats of anticorrosive paint with black mat texture | m              | 70.00 |           |            |
|          | <b>SUB TOTAL</b>  |                |       |           |            |
| <b>S</b> | <b>CARPENTRY WORK</b>   |                |       |           |            |
|          | The dimensions indicated in the description are the finished sized of timber members and only ±5% deviation can be allowed.   | Note           |       |           |            |
| S-01     | Supplying and fixing <b>25mm thick ledged, braced and battened door</b> sash with grooved and tongued joints in special class timber with 100x75mm frame in special class timber complete with brass or equivalent approved quality furniture including 2nr of 150mm long Barrel bolt and one coat of wood primer and two coats of enamel painting to wood work. ( Type and brand of door lock to be decided according to type of work and to be paid separately)   | m <sup>2</sup> | 2.00  |           |            |

| ITEM     | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|----------|---|----------------|--------|-----------|------------|
| S-02     | Supplying, making and fixing <b>valance boards, barge boards or fascia</b> of minimum of 20mm finished thickness and 225mm width in Sapu or higher quality timber. rate to include 200mm - 225 mm long bracket fixed to roof of 25mmx5mm section flat iron and painting with two coats of anti corrosive paint, approved by the engineer and completing with necessary iron screws, etc. including treating timber with wood preservative and two coats of enamel paint | m <sup>2</sup> | 95.00  |           |            |
|          |   |                |        |           |            |
|          | <b>SUB TOTAL</b>  |                |        |           |            |
| <b>T</b> | <b>CEILING WORK</b>   |                |        |           |            |
| T-01     | Supply & Installation of PVC Panelled Ceiling (Quality and colour shall be approved by the Engineer ) With necessary GI grid structure to complete. (Type, guage of grid shall be approved by the Engineer)   | m <sup>2</sup> | 495.00 |           |            |
|          |   |                |        |           |            |
|          | <b>SUB TOTAL</b>  |                |        |           |            |





**EXTENSION TO THE G BLOCK CANTEN - UVA WELASSA UNIVERSITY**

**BILL OF QUANTITIES**

**EXTERNAL WORK**

| ITEM     | DISCRIPTION  | UNIT           | QTY  | RATE (Rs) | AMOUNT(Rs) |
|----------|--|----------------|------|-----------|------------|
| <b>B</b> | <b>EXCAVATION AND EARTH WORK</b>   |                |      |           |            |
|          | <b>Site Preparation</b>  |                |      |           |            |
| B-01     | Site clearing including removing all debris, small trees up to 0.5 m girth, vegetations including top soil up to 150 mm depth and dispose to suitable locations.   | m <sup>3</sup> | 2.00 |           |            |
|          | <b>Excavation</b>  |                |      |           |            |
|          | Earth excavation in any material except rock requiring blasting, part return fill rammed and well consolidated. All excavations to be protected from rain/storm water runoff falling into the same by suitable means. Unsuitable material shall dispose to approved locations AND Earth filling and compaction up to required level. Work shall be carried out as per specification. |                |      |           |            |
|          | <b>Levelling the land</b>  |                |      |           |            |
| B-02     | Levelling the land to required level ad lines  | m <sup>3</sup> | 1.50 |           |            |
| B-03     | Allow provisional sum for unforceen work under ground  | Ps             | 1.00 | 10,000.00 | 10,000.00  |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |      |           |            |
| <b>C</b> | <b>CONCRETE</b>  |                |      |           |            |
|          | The Contractor shall refer the followings prior to pricing the items in this trade.  |                |      |           |            |
|          | a. All relevant drawings   |                |      |           |            |
|          | b. Specifications  |                |      |           |            |
|          | c. Pricing preambles   |                |      |           |            |

| ITEM | DISCRIPTION  | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|--|----------------|-------|-----------|------------|
|      | d. Location  |                |       |           |            |
|      | All concrete shall be made dense with a vibrator. Rate shall include for plant for mixing , handling, hoisting, depositing, compacting ,vibrating and curing making good after removal of form work and for any tests when necessary.  | note           |       |           |            |
|      | OPC cement complied with relevent Sri Lanka standards and approved by Engineer shall be used.  | note           |       |           |            |
|      | Rate shall include for mixing, placing, compacting with porker vibrator, levelling and curing.   | note           |       |           |            |
|      | <b>Reinforced in-situ Grade 25 concrete (R/F paid seperately)<br/>foundation level to roof level</b>   |                |       |           |            |
| C-01 | Kerbs  | m <sup>3</sup> | -     |           | -          |
| C-02 | <b>112x150mm stiffness columns for tor walls in 1:2:4(20mm) cement concrete including formwork (Reinforcement will be paid separately).</b>  | m <sup>3</sup> | -     |           | -          |
| C-03 | <b>300 mm wide concrete drains without ramp in 1:3:6(25mm) concrete with 225mm to 300mm average depth, 75mm thick base and side walls inclusive of 20mm thick cement rendering in 1:3 cement sand mix. Rate shall include necessary expansion joints, formwork and excavation.</b> | m              | -     |           | -          |
| C-04 | <b>225 mm wide concrete drains without ramp in 1:3:6(25mm) concrete with 150mm to 225mm average depth, 75mm thick base and side walls inclusive of 20mm thick cement rendering in 1:3 cement sand mix. Rate shall include necessary expansion joints, formwork and excavation.</b> | m              | 60.00 |           |            |
| C-05 | <b>Supplying and placing 50mm thick Slab over drains in 1:2:4(20mm) concrete reinforced with Y10@ 200mm c/c both ways. Rate shall include reinforcement and necessary formwork.</b>  | m <sup>2</sup> | 23.00 |           |            |
|      | <b>TOTAL CARRIED TO SUMMARY</b>  |                |       |           |            |



| ITEM                            | DISCRIPTION   | UNIT           | QTY | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|----------------|-----|-----------|------------|
| <b>D</b>                        | <b>FORM WORK</b>  |                |     |           |            |
|                                 | Form work shall be provided with adequate struts, braces, ties, clamps and the like so as to maintain the demensions, lines and levels shown in the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging under the weight of wet concrete including any other supper imposed loads which would be subjected to during construction. | note           |     |           |            |
|                                 | <b>External work</b>  |                |     |           |            |
| D-01                            | Kerbs   | m <sup>2</sup> | -   |           |            |
| D-02                            | Floor concrete  | m <sup>2</sup> | -   |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                |     |           |            |
| <b>E</b>                        | <b>REINFORCEMENT</b>  |                |     |           |            |
|                                 | Steel bar reinforcement cut, bend, place and tie in position as reinforcement to RCC work. Tor Steel characteristic strength 460 N/mm2 and Mild Steel characteristic strength 250 N/mm2 to be used as reinforcement to RCC works.   | note           |     |           |            |
|                                 | Rates shall be included for cutting, bending, fabricating, placing in position, holding and temporary fixing supports. Ex:chairs, benches, stools, spaces, ties, hangers and binding wires.   | note           |     |           |            |
|                                 | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Tor Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.  |                |     |           |            |
|                                 | <b>External work</b>  |                |     |           |            |
| E-01                            | Stiffner columns  | kg             | -   |           |            |

| ITEM                            | DISCRIPTION   | UNIT                     | QTY  | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|--------------------------|------|-----------|------------|
| E-02                            | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Mild Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.<br>Mild Steel   | kg                       | -    |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                          |      |           |            |
| <b>F</b>                        | <b>MASONRY WORK</b><br><br>The Contractor shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.<br><br>Rates for masonry works shall include for plumbir<br>Rate shall include for all necessary types of scaffolding whether specified separately or not.<br><br>External surfaces of brick work shall complete to a levelled & even surface to receive cladding frame work without any plastering work to walls.<br><br><b>Random Rubble masonry work</b> | Note<br>Note<br><br>Note |      |           |            |
| F-01                            | Random rubble masonry work in cement sand mortar 1:5 in wall foundations.   | m <sup>3</sup>           | -    |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |                          |      |           | -          |
| <b>G</b>                        | <b>WASTE MANAGEMENT SYSTEM</b>  |                          |      |           |            |
| G-01                            | Construction of <b>Manholes (internal size 1050x675mm) depth 600~1200mm</b> with 150mm thick base in 1:3:6(25) concrete, 225mm thick brick walls and rendering in 1:3 cement sand mix including forming channel and 75mm thick removable concrete cover in 1:2:4(20) concrete reinforced with R6@75mm c/c both ways and plastered all exposed surfaces with 1:3 cement sand mix <b>For grease trrap</b>   | nr                       | 1.00 |           |            |

| ITEM                            | DISCRIPTION   | UNIT | QTY   | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|---|------|-------|-----------|------------|
| G-02                            | Construction of <b>Manholes ( internal size 600x600mm) depth up to 600mm</b> with 150mm thick base in 1:3:6(25) concrete, 150mm thick brick walls and rendering in 1:3 cement sand mix including forming channel and 75mm thick removable concrete cover in 1:2:4(20) concrete reinforced with R6@75mm c/c both ways and plastered all exposed surfaces with 1:3 cement sand mix                          | nr   | 2.00  |           |            |
| G-03                            | Construction of <b>Waste water/storm water catch pits (internal size 300x300mm) depth up to 300mm</b> with 75mm thick base in 1:3:6(25) concrete, 115mm thick brick walls and rendering in 1:3 cement sand mix including forming channel and 50 mm thick removable concrete cover in 1:2:4(20) concrete reinforced with R6@75mm c/c both ways and plastered all exposed surfaces with 1:3 cement sand mix | nr   | 10.00 |           |            |
| G-04                            | Allow for grease trap mechanism   | PS   | 1.00  | 40,000.00 | 40,000.00  |
| <b>TOTAL CARRIED TO SUMMARY</b> |   |      |       |           |            |
| <b>H</b>                        | <b>PLASTERING</b>   |      |       |           |            |
|                                 | The Contractor is advised to refer the Drawings, Specification, pricing preambles and the finishes schedule prior to pricing of this section of work.   | Note |       |           |            |
|                                 | Rates shall include for temporary rules, screeds, ground etc., all normal cutting arises, raking out knots of brck work, hacking knots of concrete, rounded angles and the like, bedding, pointing, forming joints making good between different surfaces, around pipes, sanitary fittings and other fixtures and cleaning down upon completion.  | Note |       |           |            |
|                                 | Extra over provision for narrow widths such as door/ window reveals have not been measured separately for all types of finishes. Rates shall include for narrow widths unless otherwise included in the BOQ.  | Note |       |           |            |
|                                 | Rates shall include for builders work in connection   | Note |       |           |            |
|                                 | Ensure that all floor finishes are laid to falls as ind   | Note |       |           |            |



| ITEM                            | DISCRIPTION  | UNIT           | QTY | RATE (Rs) | AMOUNT(Rs) |
|---------------------------------|--|----------------|-----|-----------|------------|
| H-01                            | Rates for plaster work shall include for reinforcing joints between different types of construction material (e.g.brick work and concrete work) with 150mm wide galvanized steel mesh as directed by the Engineer.                                     | Note           |     |           |            |
|                                 | Rates shall include for covering and protection of finishes from weather and construction operation.   | Note           |     |           |            |
|                                 | <b>Preparing door or window reveals (One side only) in 12mm thick 1:3 cement sand mortar as directed (&lt;100mm)</b>   | m              | -   |           | -          |
|                                 |  |                |     |           |            |
| H-02                            | <b>20mm thick plinth plaster in 1:3 cement sand mix finished smooth with cement floating</b>   | m <sup>2</sup> | -   |           | -          |
|                                 |  |                |     |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |  |                |     |           | -          |
| <b>J</b>                        | <b>PAINTING</b>  |                |     |           |            |
| J-01                            | Rate shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, patching up cracks, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion. | Note           |     |           |            |
|                                 | Rate shall include for painting of reveals etc.  | Note           |     |           |            |
|                                 | Rates shall include for protection of floors, fittings and cleaning upon completion.   | Note           |     |           |            |
|                                 | Paint brand should be CIC or equivalent and the approval for brand and colour should be obtained by the Engineer   | Note           |     |           |            |
|                                 | <b>Applying one coat of approved quality wall primer and two coats of approved quality weather shield paint to new walls.</b>  | m <sup>2</sup> | -   |           | -          |
|                                 |  |                |     |           |            |
|                                 |  |                |     |           |            |
| <b>TOTAL CARRIED TO SUMMARY</b> |  |                |     |           | -          |

| ITEM     | DISCRIPTION  | UNIT           | QTY | RATE (Rs) | AMOUNT(Rs) |
|----------|--|----------------|-----|-----------|------------|
| <b>K</b> | <b>SURFACE DRESSING</b>  |                |     |           |            |
| K-01     | Supplying and Laying 220mm x 110mm x80mm size (strength class 25N/mm <sup>2</sup> ) Interlocking blocks on 50mm thick compacted Quarry dust layer sides with avg 100mm concrete to a thkness of approx 50mm in 1:2:4(Colour, pattern and the quality should be approved by the engineer.)<br>Transport of interlocks blocks will be paid seperately. | m <sup>2</sup> | -   |           | -          |
| K-02     | Allow for transport of interlock blocks with loadin and unloading to the site  | PS             |     |           | -          |
| K-03     | Supply and lay buffalo type grass of approved quality with fertilizer under bed  | m <sup>2</sup> | -   |           | -          |
| K-04     | Supplying and laying G1000 polythene as <b>damp proof membrane</b> with 150mm laps after preparing surface as directed.  | m <sup>2</sup> | -   |           | -          |
| K-05     | Supply and fixing of garden benches made with conncret of approx 1500mm width  | Nr             | -   |           | -          |
| K-06     | Additional improvements in surface finish and stability  | PS             | -   |           | -          |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |     |           | -          |
| <b>L</b> | <b>ELECTRICAL WORKS</b>  |                |     |           |            |
| L-01     | Allow for external lighting and improvements in power supply   | PS             | -   |           | -          |
|          | <b>TOTAL CARRIED TO SUMMARY</b>  |                |     |           | -          |
| <b>N</b> | <b>PLUMBING WORK</b>   |                |     |           |            |

| ITEM | DISCRIPTION  | UNIT | QTY  | RATE (Rs) | AMOUNT(Rs) |
|------|--|------|------|-----------|------------|
|      | <b>These plumbing rates shall be used for building construction and repair works only.</b> All PVC pipes and fittings shall be of best quality of an approved manufacture. All pipes shall be measured in linear meters and rates shall include pipe fittings and extras where stated, solder, rivets, screws, nails, clips, brackets, straps, holder bats, made bends, if any etc., all laps, straight cutting and wastages, solvent cement and incidental materials and labour on joining pipes, chasing in brickwork, concrete surface and making good. |      |      |           |            |
| N-01 | Supplying and fixing <b>20mm (1/2") bib tap - Chromium plated. Prime Cost Rs.2,520.00</b>  | nr   | 0.00 |           | -          |
| N-02 | Supplying and fixing <b>20mm (1/2") angle valve - Chromium plated</b>  | nr   | 0.00 |           | -          |
| N-03 | Supplying and fixing <b>20mm (1/2") gate valve - Brass</b>   | nr   | 0.00 |           | -          |
| N-04 | Supplying and laying <b>32mm (1") (PNT11) or Equivalent PVC pipes with all specials rate included pressure testing etc.</b>  | m    | -    |           | -          |
| N-05 | Supplying and laying <b>25mm (3/4") (PNT11) or Equivalent PVC pipes with all specials rate included pressure testing etc.</b>  | m    | -    |           | -          |
| N-06 | Supplying and laying <b>20mm (1/2") (PNT14) or Equivalent PVC pipes with all specials rate included pressure testing etc.</b>  | m    | -    |           | -          |
| N-07 | Supplying and laying <b>40mm (1 1/4") (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.</b>   | m    | -    |           | -          |
| N-08 | Supplying and laying <b>110mm (4") (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.</b>  | m    | -    |           | -          |
| N-09 | Supplying and laying <b>63mm (2") (PNT7) or Equivalent PVC pipes with all specials rate included pressure testing etc.</b>   | m    | -    |           | -          |
| N-10 | Allow for builders work  | PS   | -    |           | -          |
|      | <b>SUB TOTAL</b>   |      |      |           | -          |
| P    | <b>MAIN ENTRANCE</b>   |      |      |           |            |



| ITEM | DISCRIPTION   | UNIT           | QTY  | RATE (Rs) | AMOUNT(Rs) |
|------|---|----------------|------|-----------|------------|
|      | <b>Excavation</b><br><br>Earth excavation in any material except rock requiring blasting, part return fill rammed and well consolidated. All excavations to be protected from rain/storm water runoff falling into the same by suitable means. Unsuitable material shall dispose to approved locations AND Earth filling and compaction up to required level. Work shall be carried out as per specification. |                |      |           |            |
| P-01 | Levelling the land to required level  | m <sup>3</sup> | 3.60 |           |            |
|      | <b>Plain in-situ Grade 15 Concrete</b>  |                |      |           |            |
| P-02 | Under footing base  | m <sup>3</sup> | 0.15 |           |            |
|      | <b>Reinforced in-situ Grade 25 concrete (R/F paid seperately)</b>   |                |      |           |            |
| P-03 | Column footings   | m <sup>3</sup> | 0.35 |           |            |
| P-04 | Column shaft  | m <sup>3</sup> | 0.50 |           |            |
| P-05 | Plinth beams  | m <sup>3</sup> | 0.25 |           |            |
| P-06 | Ramp  | m <sup>3</sup> | 1.75 |           |            |
| P-07 | Mixing, placing, vibrating and curing Grade 25 concrete in beams (Machine mixing).  | m <sup>3</sup> | 1.05 |           |            |
|      | Form work shall be provided with adequate struts, braces, ties, clamps and the like so as to maintain the demensions, lines and levels shown in the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging under the weight of wet concrete including any other supper imposed loads which would be subjected to during construction.                         | note           |      |           |            |
| P-08 | Column footings   | m <sup>2</sup> | 2.40 |           |            |

| ITEM | DISCRIPTION   | UNIT           | QTY    | RATE (Rs) | AMOUNT(Rs) |
|------|---|----------------|--------|-----------|------------|
| P-09 | Column shaft  | m <sup>2</sup> | 9.00   |           |            |
| P-10 | Plinth beams  | m <sup>2</sup> | 2.20   |           |            |
| P-11 | Ramp  | m <sup>2</sup> | 1.50   |           |            |
| P-12 | Supplying, fabricating, fixing and removing formwork using <b>18mm thick plywood sheets</b> for <b>Beams.</b>   | m <sup>2</sup> | 15.00  |           |            |
| P-13 | Supplying, fabricating, fixing and removing formwork using <b>18 mm thick plywood sheets</b> for <b>Slabs.</b>  | m <sup>2</sup> | 16.00  |           |            |
|      | Steel bar reinforcement cut, bend, place and tie in position as reinforcement to RCC work. Tor Steel characteristic strength 460 N/mm2 and Mild Steel characteristic strength 250 N/mm2 to be used as reinforcement to RCC works. | note           |        |           |            |
|      | Rates shall be included for cutting, bending, fabricating, placing in position, holding and temporary fixing supports. Ex: chairs, benches, stools, spaces, ties, hangers and binding wires.                                      | note           |        |           |            |
|      | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Tor Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.  |                |        |           |            |
| P-14 | Column footing  | kg             | 25.00  |           |            |
| P-15 | Column shaft  | kg             | 40.00  |           |            |
| P-16 | Plinth beams  | kg             | 25.00  |           |            |
| P-17 | beams   | kg             | 72.00  |           |            |
| P-18 | Slab  | kg             | 180.00 |           |            |
|      | Supplying, cutting, bending, laying and binding (with 16 BWG binding wires) Mild Steel Reinforcement to slabs, beams, lintels, columns, stair cases, etc.   |                |        |           |            |
| P-19 | Mild Steel  | kg             | 70.00  |           |            |

| ITEM | DISCRIPTION  | UNIT           | QTY   | RATE (Rs) | AMOUNT(Rs) |
|------|--|----------------|-------|-----------|------------|
|      | <b>Random Rubble masonry work</b>  |                |       |           |            |
| P-20 | Random rubble masonry work in cement sand mortar 1:5 in wall foundations.  | m <sup>3</sup> | 1.75  |           |            |
| P-21 | 10mm thick <b>semi rough plaster</b> for concrete columns in 1:3 cement sand mix finished using trowel   | m <sup>2</sup> | 42.00 |           |            |
| P-22 | Applying one coat of approved quality wall primer and two coats of approved quality <b>weather shield</b> paint to new walls.  | m <sup>2</sup> | 42.00 |           |            |
| P-23 | 10mm thick <b>semi rough floor rendering</b> on concrete ramps / beams in 1:3 cement sand mix finished using trowel  | m <sup>2</sup> | 18.60 |           |            |
| p-24 | Supplying and laying <b>600mmx600mm Matt Ceramic Tiles LAID ON SLANTED BRICK PIERED WALLS</b> similar to existing finishes with diagonal cutting by diamond wheel, grouted the grooves to similar color exceptional quality, including 12mm thick tile bedding in 1:3 cement sand mortar and pointing with tile grout similar to the colour of tiles.(Colour, pattern and the quality should be approved by the engineer). <b>Price range Rs.1,613.00-Rs.2,303.00</b>  | m <sup>2</sup> | 6.00  |           |            |
| p-25 | Supplying and fixing approved quality Weather proofed lamp Fitting (Out Door) with point wired through 10 Amp switch using 2x1/1.13mm Cu\PVC\PVC (1sq.mm) wire and 7/0.67 mm Cu/PVC (2.5sq.mm) earth wires in fully concealed PVC conduits with all specials. Surface plastic casing can be use for special situations with approved by the Engineer. Additional chargers NOT allow for PVC casings. Rate shall include switch, sun box, complete lamp fitting, etc. (Quality should be approved by the engineer) bulb will be paid separately. <b>Prime cost of Fitting = Rs.1,907.00</b> | Nr             | 4.00  |           |            |



| ITEM     | DISCRIPTION  | UNIT | QTY   | RATE (Rs)    | AMOUNT(Rs)          |
|----------|--|------|-------|--------------|---------------------|
| P-26     | Supply, fabrigate and installation of GI guard rail<br>sas per the detailed drawing with<br>50mmx75mmx2.0mm horizontal members at<br>approx 900mm intervals, uprights at approx<br>900mm with 50mmx75mmx2.0mm, diagnal<br>members with 50mmx50mmx2.0mm GI section<br>welded to each members, anchored to wall and<br>columns with necessary anchor bolts and base<br>plates, with approx 100mm clearance between<br>floor level and lower horizontal member, with<br>one coat of primer and two coats of anticorrosive<br>paint with black mat texture | m    | 16.00 |              |                     |
| P-27     | Allow for service improvemnts in floor and<br>entrance path  | PS   | 1.00  | 30,000.00    | 30,000.00           |
|          | <b>SUB TOTAL</b>   |      |       |              |                     |
| <b>Q</b> | <b>ACCESS FOR DIFFERENTLY ABLE</b>   |      |       |              |                     |
| Q-01     | Allow for construction of access path for<br>differently able people   | PS   | 1.00  | 1,400,000.00 | 1,400,000.00        |
|          | <b>SUB TOTAL</b>   |      |       |              | <b>1,400,000.00</b> |