

BOQ

Name of Work:- Repairing and renovation of RCC Type-IV/03 at AEGCL, Kahilipara, colony.

Name & Address of Bidder:

| Sl. No. | Description of Item | Qty | Unit | Rate | Amount |
|---------|--|-------|------|------|--------|
| (A) | CIVIL WORKS | | | | |
| 1 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. 15.2.1 Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) roof <div style="text-align: right;">1 x 3.00 x 2.20 x 0.075 = 0.50 = 0.50</div> | 0.50 | Cum | | |
| 2 | Grading roof for water proofing treatment with 22.14.1 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) <div style="text-align: right;">3.00 x 2.20 x $\frac{0.100 + 0.075}{2}$ = 0.578 Total = 0.578</div> | 0.578 | cum | | |
| 3 | 13.9 Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 13.9.1 12 mm cement plaster <div style="text-align: right;">1 x 3.00 x 2.20 = 6.60 Total = 6.60</div> | 6.600 | sqm | | |
| 4 | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 4.2.5 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) Approach road <div style="text-align: right;">1 x 7.10 x 2.60 x 0.050 = 0.92 Total = 0.92</div> | 0.92 | cum | | |
| 5 | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. Finishing old / new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Berger paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats) Bedroom 1 <div style="text-align: right;">2 x 3.00 x 3.20 = 19.20 2 x 4.20 x 3.20 = 26.88 1 x 3.00 x 4.20 = 12.60</div> | | | | |

| Sl. No. | Description of Item | | | | | | | | Qty | Unit | Rate | Amount |
|---------|---------------------|---|---|------|---|------|---|-------|--------|------|------|--------|
| | less door(-) | 1 | x | 0.95 | x | 2.10 | = | -2.00 | | | | |
| | Window | 1 | x | 0.90 | x | 0.95 | = | -0.86 | | | | |
| | | 1 | x | 1.20 | x | 0.70 | = | -0.84 | | | | |
| | | 1 | x | 1.00 | x | 1.60 | = | -1.60 | | | | |
| | | 1 | x | 0.95 | x | 0.45 | = | -0.43 | | | | |
| | Bedroom 2 | 2 | x | 3.10 | x | 3.20 | = | 19.84 | | | | |
| | | 2 | x | 3.75 | x | 3.20 | = | 24.00 | | | | |
| | | 1 | x | 3.10 | x | 3.75 | = | 11.63 | | | | |
| | less door(-) | 1 | x | 0.95 | x | 2.10 | = | -2.00 | | | | |
| | | 1 | x | 1.15 | x | 1.10 | = | -1.27 | | | | |
| | | 1 | x | 1.15 | x | 0.45 | = | -0.52 | | | | |
| | | 1 | x | 1.20 | x | 0.50 | = | -0.60 | | | | |
| | Dining | 2 | x | 3.55 | x | 3.20 | = | 22.72 | | | | |
| | | 2 | x | 2.20 | x | 3.20 | = | 14.08 | | | | |
| | | 1 | x | 3.55 | x | 2.20 | = | 7.81 | | | | |
| | less door(-) | 3 | x | 0.95 | x | 2.10 | = | -5.99 | | | | |
| | | 3 | x | 0.75 | x | 2.10 | = | -4.73 | | | | |
| | Window | 1 | x | 1.30 | x | 1.10 | = | -1.43 | | | | |
| | Ventilater | 1 | x | 3.40 | x | 0.45 | = | -1.53 | | | | |
| | | 2 | x | 0.95 | x | 0.45 | = | -0.86 | | | | |
| | | 1 | x | 0.75 | x | 0.45 | = | -0.34 | | | | |
| | Kitchen | 2 | x | 2.70 | x | 3.20 | = | 17.28 | 271.68 | sqm | | |
| | | 2 | x | 2.20 | x | 3.20 | = | 14.08 | | | | |
| | | 1 | x | 2.70 | x | 2.20 | = | 5.94 | | | | |
| | less door(-) | 1 | x | 0.75 | x | 2.10 | = | -1.58 | | | | |
| | Window | 1 | x | 1.40 | x | 0.65 | = | -0.91 | | | | |
| | Ventilater | 1 | x | 1.40 | x | 0.45 | = | -0.63 | | | | |
| | Puja Ghar | 2 | x | 1.35 | x | 3.20 | = | 8.64 | | | | |
| | | 2 | x | 1.80 | x | 3.20 | = | 11.52 | | | | |
| | | 1 | x | 1.35 | x | 1.80 | = | 2.43 | | | | |
| | less door(-) | 1 | x | 1.00 | x | 2.10 | = | -2.10 | | | | |
| | Window | 1 | x | 1.10 | x | 0.35 | = | -0.39 | | | | |
| | Drawing room | 2 | x | 4.40 | x | 3.20 | = | 28.16 | | | | |
| | | 2 | x | 3.00 | x | 3.20 | = | 19.20 | | | | |
| | | 1 | x | 4.40 | x | 3.00 | = | 13.20 | | | | |
| | less door(-) | 2 | x | 0.95 | x | 2.10 | = | -3.99 | | | | |
| | Window | 1 | x | 1.90 | x | 1.15 | = | -2.19 | | | | |
| | Ventilater | 1 | x | 1.90 | x | 0.45 | = | -0.86 | | | | |
| | Common Area | 2 | x | 1.00 | x | 3.20 | = | 6.40 | | | | |
| | | 2 | x | 1.50 | x | 3.20 | = | 9.60 | | | | |

| Sl. No. | Description of Item | Qty | Unit | Rate | Amount |
|---------|---|---------|------|------|--------|
| | <div> <div>1</div> <div>x</div> <div>1.50</div> <div>x</div> <div>1.00</div> <div>=</div> <div>1.50</div> </div> <div>less door(-)</div> <div> <div>3</div> <div>x</div> <div>0.75</div> <div>x</div> <div>2.10</div> <div>=</div> <div>-4.73</div> </div> <div>Bathroom</div> <div> <div>2</div> <div>x</div> <div>1.40</div> <div>x</div> <div>1.40</div> <div>=</div> <div>3.92</div> </div> <div> <div>2</div> <div>x</div> <div>2.20</div> <div>x</div> <div>1.40</div> <div>=</div> <div>6.16</div> </div> <div> <div>1</div> <div>x</div> <div>1.40</div> <div>x</div> <div>2.20</div> <div>=</div> <div>3.08</div> </div> <div>less door(-)</div> <div> <div>1</div> <div>x</div> <div>0.75</div> <div>x</div> <div>2.10</div> <div>=</div> <div>-1.58</div> </div> <div>Window</div> <div> <div>1</div> <div>x</div> <div>1.25</div> <div>x</div> <div>0.75</div> <div>=</div> <div>-0.94</div> </div> <div>W/C</div> <div> <div>2</div> <div>x</div> <div>1.25</div> <div>x</div> <div>1.40</div> <div>=</div> <div>3.50</div> </div> <div> <div>2</div> <div>x</div> <div>1.45</div> <div>x</div> <div>1.40</div> <div>=</div> <div>4.06</div> </div> <div> <div>1</div> <div>x</div> <div>1.25</div> <div>x</div> <div>1.45</div> <div>=</div> <div>1.81</div> </div> <div>less door(-)</div> <div> <div>1</div> <div>x</div> <div>0.75</div> <div>x</div> <div>2.10</div> <div>=</div> <div>-1.58</div> </div> <div>Window</div> <div> <div>1</div> <div>x</div> <div>1.20</div> <div>x</div> <div>0.90</div> <div>=</div> <div>-1.08</div> </div> <div>Total = 271.68</div> | | | | |
| 6 | Distempering with 1st quality acrylic distemper (ready mix) having VOC content less than 50 gm per ltr. of approved brand and manufacture to give an even shade 13.90.1 Old work(one or more coats) <div>= 271.680</div> | 271.680 | Sqm | | |
| 7 | Painting with oil type wood preservative of approved brand and manufacture: 13.97.1 Old work (one or more coats) Drawing room Door 2 x 2 x 0.95 x 2.10 = 7.98 Window 1 x 1.90 x 1.15 = 2.19 Ventilater 1 x 1.90 x 0.45 = 0.86 Dining room Door 2 x 0.95 x 2.10 = 3.99 Ventilater 1 x 3.40 x 0.45 = 1.53 <div>2 x 0.95 x 0.45 = 0.86</div> <div>1 x 0.75 x 0.45 = 0.34</div> Bedroom 1 Door 2 x 0.95 x 2.10 = 3.99 Bedroom 2 Door 2 x 0.95 x 2.10 = 3.99 Window 1 x 1.15 x 1.10 = 1.27 Ventilater 1 x 1.15 x 0.45 = 0.52 Window 1 x 1.20 x 0.50 = 0.60 Puja Ghar Window 1 x 0.35 x 1.10 = 0.39 <div>Total = 28.510</div> | 28.51 | sqm | | |

| Sl. No. | Description of Item | Qty | Unit | Rate | Amount |
|---------|---|-------|------|------|--------|
| 8 | <p>Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, (weight not less than 10 kg per sqm) fixing with ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.</p> <p>9..9.2 Kiln seasoned and chemically treated hollock wood</p> <p>9.9.2.1 35 mm thick</p> <p>Windows shutter</p> <div> <div>4</div> <div>x</div> <div>0.950</div> <div>x</div> <div>1.100</div> <div>=</div> <div>4.18</div> </div> <div> <div></div> <div>=</div> <div>4.18</div> </div> | 4.18 | Sqm | | |
| 9 | <p>Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:</p> <p>14.5.1 Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)</p> <div> <div>10</div> <div>x</div> <div>0.60</div> <div>x</div> <div>0.30</div> <div>=</div> <div>1.80</div> </div> <div> <div>Total</div> <div>=</div> <div>1.80</div> </div> | 1.80 | sqm | | |
| 10 | <p>25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places</p> <p>Bathroom & W/C</p> <div> <div>1</div> <div>x</div> <div>0.75</div> <div>x</div> <div>2.10</div> <div>=</div> <div>1.58</div> </div> <div> <div>Total</div> <div>=</div> <div>1.58</div> </div> | 1.58 | sqm | | |
| 11 | <p>Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level</p> <p>6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand)</p> <p>support wall for sink</p> <div> <div>2</div> <div>x</div> <div>0.60</div> <div>x</div> <div>0.80</div> <div>=</div> <div>0.96</div> </div> <p>Water tank base</p> <div> <div>2</div> <div>x</div> <div>3.14</div> <div>x</div> <div>0.60</div> <div>x</div> <div>0.60</div> <div>=</div> <div>2.26</div> </div> <div> <div>Total</div> <div>=</div> <div>3.22</div> </div> | 3.22 | sqm | | |
| 12 | <p>15 mm cement plaster on the rough side of single or half brick wall of mix :</p> <p>13.2.1 1:4 (1 cement: 4 fine sand)</p> <p>support wall for sink</p> <div> <div>2</div> <div>x</div> <div>2</div> <div>x</div> <div>0.60</div> <div>x</div> <div>0.80</div> <div>=</div> <div>1.92</div> </div> <p>Water tank base</p> <div> <div>1</div> <div>x</div> <div>3.14</div> <div>x</div> <div>0.60</div> <div>x</div> <div>0.60</div> <div>=</div> <div>1.13</div> </div> <p>Damaged roof in varoius rooms</p> <div> <div>2</div> <div>x</div> <div>1.00</div> <div>x</div> <div>3.50</div> <div>x</div> <div>3.20</div> <div>=</div> <div>22.40</div> </div> <div> <div>Total</div> <div>=</div> <div>25.45</div> </div> | 25.45 | sqm | | |
| 13 | <p>Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.</p> | 19.80 | sqm | | |

| Sl. No. | Description of Item | Qty | Unit | Rate | Amount |
|---------|--|------|-------|------|--------|
| | 2 x 3.30 x 3.00 = 19.80 Total = 19.80 | | | | |
| 14 | Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : 9.63.1 250x10 mm = 10 | 10 | each | | |
| 15 | Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete 9.66.1 125 mm = 4 | 4 | each | | |
| 16 | Providing and fixing brass bib cock of approved quality : 18.15.2 20 mm nominal bore = 6 | 6 | Each | | |
| 17 | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 17.10.2 Kitchen sink without drain board 17.10.2.1 610x510mm bowl depth 200 mm = 1 | 1 | Each | | |
| 18 | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 17.73.1 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms = 1 | 1 | Each | | |
| 19 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.52.1 15 mm nominal bore = 2 | 2 | Each | | |
| 20 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 18.17.1A 20 mm nominal bore = 1 Total = 1 | 1 | Each | | |
| 21 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. = 1000 = 1000 | 1000 | Litre | | |

| Sl. No. | Description of Item | Qty | Unit | Rate | Amount |
|---------|--|-------|------|------|--------|
| 22 | CPVC PIPES | 25.00 | Rm. | | |
| | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. | | | | |
| | Internal work - Exposed on wall | | | | |
| | 18.7.3 25 mm nominal dia Pipes = 25.00 | | | | |
| | 18.7.2 20 mm nominal dia Pipes = 20.00 | 20.00 | Rm. | | |
| | Total = 20.00 | | | | |
| (B) | | | | | |
| 23 | Wiring for light/ fan/ call bell point with 2x1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) with flat 19 mm ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) in surface system, including 6 Amp flush type switch/ bell push (Anchor Penta/Gold medal /Kolor kany.Kom/ Havells or equivalent make as approved by the Deptt.) GI/ MS switch board (ISI marked) half conceal on wall with phenolic laminated sheet cover ,ceiling rose (Anchor/Gold medal /Kolor kany.Kom / Havells or equivalent make as approved by the Deptt.) etc. complete as directed and specified by the Deptt. | 6 | Each | | |
| | 1.1.1.) Short point up to 3.00 metre. length. = 6 | | | | |
| | 1.1.2.) Medium point up to 6.00 metre. Length. = 6 | 6 | Each | | |
| 24 | Wiring for drawing sub-main line with 2x1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface flat 19 mm ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) system, including connection as required complete as directed and specified by the Deptt. | 10 | Rm. | | |
| | 1.7.1.) With 2 x 1.5 sq. mm. cable in flat 19 mm ISI marked casing 'n' capping system, = 10 | | | | |
| 25 | Supplying fitting and fixing M.S.angles, M.S. flat, M.S. bolts and nuts including painting with red lead paint one coat complete as directed. | | | | |
| | FRAME | | | | |
| | 45x45x5 angle 1 x 2 x 1.80 x 3.40 = 12.24 | | | | |
| | 25x25x5 angle 2 x 2 x 1.50 x 1.80 = 10.80 | | | | |

| Sl. No. | Description of Item | Qty | Unit | Rate | Amount |
|---------|---|------|------|------|--------|
| | <div> <div>2</div> <div>x</div> <div>2</div> <div>x</div> <div>1.20</div> <div>x</div> <div>1.80</div> <div>=</div> <div>8.64</div> </div> <div> <div>2</div> <div>x</div> <div>1</div> <div>x</div> <div>1.50</div> <div>x</div> <div>1.00</div> <div>=</div> <div>3.00</div> </div> <div> <div>2</div> <div>x</div> <div>1</div> <div>x</div> <div>1.20</div> <div>x</div> <div>1.00</div> <div>=</div> <div>2.40</div> </div> <div> <div>6 mm dia bar @120mm c/c</div> <div>2</div> <div>x</div> <div>10</div> <div>x</div> <div>1.50</div> <div>x</div> <div>0.22</div> <div>=</div> <div>6.60</div> </div> <div> <div>2</div> <div>x</div> <div>13</div> <div>x</div> <div>1.20</div> <div>x</div> <div>0.22</div> <div>=</div> <div>6.60</div> </div> <div> <div>Total</div> <div>=</div> <div>50.28</div> </div> <div> <div>=</div> <div>0.50</div> </div> | 0.50 | Qtl | | |
| (C) | Basic rates of CPWD | | | | |
| 26 | <div>Labour for dismantling of RCC overhead tank and disposing off the waste materials, existing basin in the kitchen and damaged wardrobes from the walls</div> <div>No of bandhani required for 5 days</div> <div> <div>5</div> <div>x</div> <div>3</div> <div>=</div> <div>15</div> </div> | 15 | Days | | |

Total=

Adding GST@18%=

Total=

Say=