

**PONDICHERY UNIVERSITY**  
**ENGINEERING WING**

**SCHEDULE OF WORK**

**Name of work: Special repairs to the E8 Quarters - Civil work**

<b>SI.No</b>	<b>Description</b>	<b>Qty</b>	<b>Rate Rs.P.</b>	<b>Unit</b>	<b>Amount Rs.P.</b>
<b>1</b>	<b>Code No: 2.8.1</b>				
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms , lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m -All kinds of soil.	5.00		Cum	
<b>2</b>	<b>Code No: 4.1.10</b>				
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level -1:5:10 (1 cement:5coarse sand : 10 graded stone aggregate 40mm nominal size)	3.00		Cum	
<b>3</b>	<b>Code No: 6.1.1</b>				
	Brick work with FPS bricks of class designation 35 in foundation and plinth in cement mortar 1:4 (1 cement : 4 coarse sand)	2.00		Cum	
<b>4</b>	<b>Code No: 2.25</b>				
	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m.	6.00		Cum	
<b>5</b>	<b>Code No: 4.11</b>				
	Providing and laying damp - proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand :4 graded stone aggregate 20mm nominal size).	3.00		Sqm	
<b>6</b>	<b>Code No: 6.4.2</b>				
	Brick work with FPS bricks of class designation 35 in superstructure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6 (1 cement : 6 coarse sand)	6.50		Cum	

<b>7</b>	<b>Code No: 5.3</b>				
	Reinforced cement concrete work in beams , suspended floors, roofs having slope upto 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	1.00		Cum	
<b>8</b>	<b>Code No: 11.3.1</b>				
	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. 40mm thick with 20mm nominal size stone aggregate.	21.00		Sqm	
<b>9</b>	<b>Code No: 5.9.5</b>				
	Centring and shuttering including strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers.- Using steel sheet with M.S.frames	10.00		Sqm	
<b>10</b>	<b>Code No: 5.22.7</b>				
	Reinforcement for R.C.C work including straightening , cutting , bending , placing in position and binding all complete - Thermo - Mechanically treated bars(ISI BRAND OF APPROVED MAKE) including placing the M30 grade Athees make cover block @ 60cm centre to centre	100.00		Kg	
<b>11</b>	<b>Code No: MR. (Similar: 15.23.1)</b>				
	Dismantling tile work in floors, dado and roofs laid in cement mortar including stacking material within 50m lead - For thickness of tiles above 6mm and upto 25mm.	38.00		Sqm	
<b>12</b>	<b>Code No: MR</b>				
	Dismantling the existing IWC/ EWC/ Wash basin and sink including stacking of serviceable material and disposal of unserviceable material within 50 metres lead	5.00		Each	
<b>13</b>	<b>Code No: 15.40.2</b>				
	Dismantling precast concrete or stone slab in walls, partition walls etc. including stacking within 50m lead - Thickness above 40mm upto 75mm	4.00		Sqm	

<b>14</b>	<b>Code No: MR</b>				
	Providing and laying fully vitrified floor tiles of size 60x60cm (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS: 15622 of approved make (Nitco / Rak / Johnson / Asian) in all colors and shades, laid on approved tile adhesive compound of 3mm thick including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 60x60cm.	73.00		Sqm	
<b>15</b>	<b>Code No: 11.36B</b>				
	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture of approved make (Jhonson / Asian / Somany / Nitco) in all colours, shades of size 300 x 450 mm as approved in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm. Including pointing in white cement mixed with pigment of matching shade complete. - size 300x450mm	43.00		Sqm	
<b>16</b>	<b>Code No: 11.39</b>				
	Providing and laying rectified glazed ceramic floor tiles 300x300mm or more(thickness to be specified by the manufacturer) of first quality conforming to IS: 15622 of approved make (Somany / Nitco / Johnson )in colors white, ivory, grey, fume red brown laid on 20mm thick cement mortar 1:4 (1 cement : 4coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	18.00		Sqm	
<b>17</b>	<b>Code No: 16.90</b>				
	Poilshing the existing mosaic floor with power plisher to a high degree of polish as to be perfectly smooth .	59.00		Sqm	
<b>18</b>	<b>Code No: 9.1.2P</b>				
	Providing wood work in frames of doors, windows,clerestory windows and other frames, wrought framed and fixed in position - Padak wood	0.11		Cum	
<b>19</b>	<b>Code No: 9.5.1.1P</b>				

	Providing and fixing panelled or panelled and glazed shutters for doors , windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately. - Padak wood teak wood - 35mm thick shutters.	2.00		Sqm	
<b>20</b>	<b>Code No: 9.7.5.2</b>				
	Providing and fixing panelling or panelled and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick: Particle board 12mm thick - Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS:3097, grade 1	2.00		Sqm	
<b>21</b>	<b>Code No: 10.27</b>				
	Supplying and fixing of steel grill work of m.s. angles,flats,squares and pipes including cost of welding charges, fixing in position in masonry walls with cement concrete 1:2:4 (1 cement : 2 course sand : 4 graded stone aggregate 12.5mm nominal size) including one coat of priming coat etc. complete.	134.00		Kg	
<b>22</b>	<b>Code No: 10.16.1</b>				
	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer welded and bolted including special shaped washers etc. complete. Hot finished welded type tubes.	123.00		Kg	
<b>23</b>	<b>Code No: 12.70</b>				
	Providing and fixing colour coated galvalume sheet of 550 M.P.A yield of AZ 150 strength formed as per patterned steel rib profile with the depth of 31mm pitch of 250mm and overall width of 1060mm and thickness 0.5mm with required J or C hook bolts and nets 8mm dia G.S paint and working etc., complete excluding the cost of purlin , rafter and truss etc.,	11.00		Sqm	
<b>24</b>	<b>Code No: 13.2.1</b>				
	15 mm cement plaster on rough side of single or half brick wall of mix - cement mortar 1:4 (1 cement : 4 fine sand)	23.00		Sqm	

<b>25</b>	<b>Code No: 13.3.1</b>				
	20mm cement plaster of mix 1:4 (1cement : 4 fine sand)	27.00		Sqm	
<b>26</b>	<b>Code No: 14.1.2</b>				
	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead - With cement mortar 1:4 (1 cement : 4 coarse sand)	21.00		Sqm	
<b>27</b>	<b>Code No: 14.43</b>				
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	28.00		Sqm	
<b>28</b>	<b>Code No: 14.42.2</b>				
	White washing with lime to give an even shade - Old work (one or more coats).	142.00		Sqm	
<b>29</b>	<b>Code No: 13.50.1</b>				
	Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood).	8.00			
<b>30</b>	<b>Code No: 13.61.1</b>				
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work.	8.00		Sqm	
<b>31</b>	<b>Code No: 14.54.1</b>				
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade - One or more coats on old work.	120.00		Sqm	
<b>32</b>	<b>Code No: 14.58.1</b>				
	French spirit polishing - One or more coats on old work.	30.00		Sqm	
<b>33</b>	<b>Code No: MR.</b>				
	Supplying and fixing of 18mm dia Aluminium pipe of approved quality in the existing window phelmet with suitable clamp both end support, screws and fixing work tc., complete.	5.00		Rmt	
<b>34</b>	<b>Code No: 10.28</b>				

	Providing and fixing AISI 316 grade stainless steel hand rail of 50mm (outer dia 2mm wall thickness) stainless steel pipe supported on 40x10mm stainless steel flat at 60mm centre to centre to a total height of 900mm from the finished floor level and fixing 4nos .of 25mm (outer dia and 2mm wall thickness) stainless steel pipe as guard rails through the S.S.flat ,with a base plate of size 100x100x8mm, including fixing in the base plate in concrete / wall surfaces by 4 nos of M-8 anchor fasteners and polishing the entire stainless steel work to no.4 surface finish as per the direction of engineer - in - charge	1.00		Rmt	
<b>35</b>	<b>Code No: MR. (Similar: 13.41.1 - 13.43.1)</b>				
	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade - Old work two or more coats)	310.00		Sqm	
<b>36</b>	<b>Code No: 13.41.1</b>				
	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade - New work (two or more coats) over and including priming coat with cement primer.	23.00		Sqm	
<b>37</b>	<b>Code No: 14.67.1</b>				
	Finishing walls with Premium Acrylic Smooth exterior paint of required shade - Old work (Two or more coats applied @ 1.43 lts/10 sqm) over existing cement paint surface.	365.00		Sqm	
<b>38</b>	<b>Code No: 13.47.1</b>				
	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade - New work (Two or more coats applied @ 1.43 ltr / 10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10 sqm).	27.00		Sqm	
<b>39</b>	<b>Code No: 18.85.1</b>				
	Providing and fixing CP brass pillar cock of approved quality - 15 mm nominal bore	3.00		Each	
<b>40</b>	<b>Code No: 18.22.1</b>				
	Providing and fixing CP brass shower rose with 15 or 20 mm inlet 100 mm diameter.	2.00		Each	
<b>41</b>	<b>Code No: 18.52.1</b>				
	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make conforming to IS 8931 - 15mm nominal bore.	5.00		Each	

<b>42</b>	<b>Code No: 18.15.1</b>				
	Providing and fixing brass bib cock of approved quality - 15 mm nominal bore.	4.00		Each	
<b>43</b>	<b>Code No: 18.53.1</b>				
	Providing and fixing CP brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 - 15 mm nominal bore.	8.00		Each	
<b>44</b>	<b>Code No: 18.8.2</b>				
	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete (Concealed work including cutting chases and making good the walls etc.) - 20mm nominal outer dia pipes.	30.00		Rmt	
<b>45</b>	<b>Code No: 18.8.3</b>				
	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete (Concealed work including cutting chases and making good the walls etc.) - 25mm nominal outer dia pipes.	30.00		Rmt	
<b>46</b>	<b>Code No: 31.160.1C</b>				
	Providing, laying and jointing UPVC pipes(Finolex/Jain) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site , lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,UPVC specials such as bends,tees, threaded pieces,couplers,reducer,endcaps etc.,complete all as per IS and CPWD specification. - 32mm dia.	10.00		Rmt	
<b>47</b>	<b>Code No: 31.160.1G</b>				

	Providing, laying and jointing UPVC pipes(Finolex/Jain) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,UPVC specials such as bends,tees, threaded pieces,couplers,reducer,endcaps etc.,complete all as per IS and CPWD specification. - 75mm dia.	18.00		Rmt	
<b>48</b>	<b>Code No: 12.41.1</b>				
	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS : 13592 type A including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion, (i) single socketed pipes. 75mm diameter.	15.00		Rmt	
<b>49</b>	<b>Code No: 31.160.11</b>				
	Providing, laying and jointing UPVC pipes(Finolex/Jain) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site , lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,excluding UPVC specials such as bends,tees, threaded pieces,couplers,reducer,endcaps etc., complete all as per IS and CPWD specification. - 110mm dia.	40.00		Rmt	
<b>50</b>	<b>Code No: 12.41.2</b>				
	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS : 13592 type A including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion, (i) single socketed pipes. 110mm diameter.	30.00		Rmt	
<b>51</b>	<b>Code No: 12.42.3.2</b>				
	Providing and fixing on wall face unplasticised- PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS : 13592 type A including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion. Single Tee with door 110X110X110mm.	2.00		Each	
<b>52</b>	<b>Code No: 12.42.3.1</b>				
	Providing and fixing on wall face unplasticised- PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS : 13592 type A including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion. Single Tee with door 75X75X75mm.	2.00		Each	
<b>53</b>	<b>Code No: 31.9.3</b>				

	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end) - 25mm nominal bore.	3.00		Each	
<b>54</b>	<b>Code No: 31.9.2</b>				
	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end) - 20mm nominal bore.	2.00		Each	
<b>55</b>	<b>Code No: 19.30.1.1</b>				
	Constructing brick masonry chamber for underground CI inspection chamber and bends with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) CI cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C top slab with 1:2:4 mix (1 cement :2 coarse sand:4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design Inside dimensions 450 x 610 mm and 45 cm deep for single pipe line with F.P.S bricks.	2.00		Each	
<b>56</b>	<b>Code No: M.R. (Similar item No: 17.3.1+ for colour pedestral RS.3000 extra)</b>				
	Providing and fixing colour vitreous china pedestral type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P flush bend with fittings & CI brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required. W.C pan with ISI marked white solid plastic seat and lid.	2.00		Each	
<b>57</b>	<b>Code No: MR.</b>				
	Providing and fixing wash basin with CI brackets, 15mm CP brass pillar taps 32 mm CP brass waste of standard pattern including painting of fittings and brackets, cutting and making good the walls wherever required colour vitreous china short pedestal wash basin of approved make with 15mm CP pillar tap.	2.00		Each	
<b>58</b>	<b>Code No: 9.97.2</b>				

	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-250x10mm	5.00		Each	
<b>59</b>	<b>Code No: 9.100.2</b>				
	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-100mm	10.00		Each	
<b>60</b>	<b>Code No: 9.62.2</b>				
	9.62.2 Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc.complete - 250x16mm	10.00		Each	
<b>61</b>	<b>Code No: 17.31</b>				
	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P brass screws and washers complete.	3.00		Each	
<b>62</b>	<b>Code No: MR.</b>				
	Providing and fixing CP brass mixer tap of Parry ware/ Jaguar make of approved model.	2.00		Each	
<b>63</b>	<b>Code No: MR.</b>				
	Providing and fixing glass corner shelf of approved brand & quality	2.00		Each	
<b>64</b>	<b>Code No: MR.</b>				
	Providing and fixing CP brass health facet of approved make.	2.00		Each	
<b>65</b>	<b>Code No: 17.70.1</b>				
	Providing and fixing PTMT bottle trap for wash basin and sink. Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260 gm.	8.00		Each	
<b>66</b>	<b>Code No: MR.</b>				
	Providing and fixing CP brass two way tap of Parry ware/ Jaguar make of approved modal.	2.00		Each	
<b>67</b>	<b>Code No: MR.</b>				
	Supplying and fixing ISI marked towel rail C.P. brass S.S. with nuts and screws etc.complete - 600mm	2.00		Each	
<b>68</b>	<b>Code No: MR.</b>				
	Supplying and fixing ISI marked towel rail C.P. brass S.S. with nuts and screws etc.complete - Circular type 230mm dia.	3.00		Each	

<b>69</b>	<b>Code No: MR.</b>				
	Supplying and fixing ISI marked soap dish C.P. brass S.S. with nuts and screws etc.complete.	2.00		Each	
<b>70</b>	<b>Code No: MR.</b>				
	Supplying and fixing ISI marked Tumbler holder C.P. brass S.S. with nuts and screws etc.complete - Circular type.	2.00		Each	
<b>71</b>	<b>Code No: MR.</b>				
	Providing and fixing brass S.S. jally approved quality.	10.00		Each	
<b>72</b>	<b>Code No: MR.</b>				
	Providing and fixing CP brass sink cock of approved quality - 15 mm nominal bore	2.00		Each	
<b>73</b>	<b>Code No: MR.</b>				
	Supplying and fixing 30mm thick fiberglass reinforced plastic (FRP) single shutters with printed surface tissue mat to provide teak wood (or) rose wood finished, made with unsaturated polyester resin and fiberglass mat, filled with PUF (polyurethane foam) of medium density at the centre, with suitable block inside at required places for fixing necessary fittings etc. the rate is excluding the cost of furniture fittings.	4.00		Sqm	
<b>Total</b>					

I hereby abide the rules and regulations stipulated in the CPWD form no. 6 & 8.

**Contractor**

**Superintending Engineer**