

**PONDICHERRY UNIVERSITY**  
**ENGINEERING WING**

**Schedule of work**

Name of work: Construction of Aquatic room over the existing Marine Animal house

S.No	Description	Qty	Rate Rs.P.	Unit	Amount Rs.P.
<b>1</b>	<b>Code No: 15.23.2</b>				
	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50m lead - For thickness of tiles above 25mm and upto 40mm.	10.00		Sqm	
<b>2</b>	<b>Code No: 15.1</b>				
	Demolishing lime concrete manually / by mechanical means and disposal of material within 50 metres lead.	1.50		Cum	
<b>3</b>	<b>Code No: 5.3.1</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 1:1.5:3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	2.75		Cum	
<b>4</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>5</b>	<b>Code No: 5.9.3</b>				
	Centring and shuttering including strutting, propping etc. and removal of form for : suspended floors, roofs, landings , balconies and access platform - Using steel sheet with M.S.frames	9.00		Sqm	
<b>6</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	300.00		Kg	
<b>7</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)	8.50		Cum	
<b>8</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>9</b>	<b>Code No: 9.21.2</b>				

	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. - 30 mm thick including ISI marked stainless steel butt hinges with necessary screws	1.75		Sqm	
<b>10</b>	<b>Code No: 9.9.1.2P</b>				
	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws. - Padak teak wood -30mm thick	2.50		Sqm	
<b>11</b>	<b>Code no:10.27</b>				
	Supplying and fixing of steel grill work of m.sangles,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.	75.00		Kg	
<b>12</b>	<b>Code No: 9.53</b>				
	Providing 40x5 mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	14.00		Each	
<b>13</b>	<b>Code No: 9.96.1</b>				
	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc.complete:- 300x16mm	1.00		Each	
<b>14</b>	<b>Code No: 9.97.1</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 : - 300x10mm	2.00		Each	
<b>15</b>	<b>Code No: 9.97.4</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 : - 150x10mm	8.00		Each	
<b>16</b>	<b>Code Mo: 9.100.1</b>				
	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade as per 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-125mm	2.00		Each	
<b>17</b>	<b>Code No: 9.100.2</b>				

	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade as per 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-100mm	8.00		Each	
<b>18</b>	<b>Code No: 9.101.1</b>				
	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete - Twin rubber stopper	1.00		Each	
<b>19</b>	<b>Code No: 9.102</b>				
	Providing and fixing aluminium casement stays ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc.complete	4.00		Each	
<b>20</b>	<b>Code No: 11.41.2A</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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600mm.	9.00		Sqm	
<b>21</b>	<b>Code No: 11.36A</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 200 x 300 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 200x300mm	13.00		Sqm	
<b>22</b>	<b>Code No: 11.52</b>				
	Providing and fixing PVC corner beading of required size to suit the thickness of the wall tile at the corner joints of dado works	11.00		Rmt	
<b>23</b>	<b>Code No: 12.20L</b>				
	Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with parapet wall complete	1.00		Cum	
<b>24</b>	<b>Code No: 12.20</b>				
	Providing and laying pressed clay tiles (as per approved pattern 20mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% intergral water proofing compound laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse	9.00		Sqm	

	sand) and finished neat complete.				
<b>25</b>	<b>Code No: 13.16.1</b>				
	6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	9.00		Sqm	
<b>26</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)	22.00		Sqm	
<b>27</b>	<b>Code No: 13.3.1</b>				
	20mm cement plaster of mix 1:4 (1cement : 4 fine sand)	70.00		Sqm	
<b>28</b>	<b>Code No: 13.60.1A</b>				
	Wall painting with plastic emulsion paint - Royal of approved brand and manufacture to give an even shade - two or more coats on new work	100.00		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).	9.00		Sqm	
<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: 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.	10.00		Rmt	
<b>32</b>	<b>Code No: 12.42.6.2</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. Shoe (plain)110mm shoe.	1.00		Each	
<b>33</b>	<b>Code No: 12.21.1</b>				
	Providing gola 75X75mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design: In 75X75mm deep chase.	5.00		Rmt	
<b>34</b>	<b>Code No: 12.22</b>				
	Making khurras 45X45cm with average minimum thickness of 5cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1mX1mx400micron, finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edge and making and finishing outlet complete.	1.00		Each	
<b>35</b>	<b>Code No: 10.17</b>				
	Providing and fixing M.S. fan clamp type I Each or II of 16mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop, all as per	1.00		Each	

	standard design complete.				
<b>36</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>37</b>	<b>Code No: 12.43.2</b>				
	Providing and fixing unplasticised - PVC clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4(1 cement : 4 coarse sand) and making good the wall etc. complete. 110mm	8.00		Each	
<b>38</b>	<b>Code No: 12.15.1</b>				
	Painting top of roofs with bitumen of approved quality at 17kg per 10sqm impregnated with a coat of coarse sand at 60 cudm per 10 sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete: With residual type petroleum bitumen of penetration 80/100.	9.50		Sqm	
<b>39</b>	<b>Code No: MR</b>				
	Supplying and fixing of fly proof stainless steel mesh (304 grades heavy) on the existing wooden window using wooden reapers which will be paid for separately. The rate includes cost of stainless steel mesh, fixing the mesh, transport etc., complete as per the direction of Engineer-in-charge.	2.50		Sqm	
<b>40</b>	<b>Code No: MR</b>				
	Supplying and fixing of country wood reapers of Padak wood of size 50mmx25mm to the alround existing wooden window frame over the stainless steel mesh with necessary screws complete. The rate includes cost of reapers, screws, nails and labours charges etc., complete as per the direction of Engineer-in-charge.	7.50		Rmt	
<b>41</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.	25.00		Rmt	
<b>42</b>	<b>Code no: MR.</b>				
	Providing and fixing PVC 110 x 75 PVC floor trap with stiff mixer of cement mortar 1:1 (1 cement: 1 fine sand)	2.00		Each	
<b>43</b>	<b>Code No: 17.9.1</b>				

	Providing and fixing Kitchen sink with CI brackets, CP brass chain with rubber plug 40mm CP brass waste complete, including paintings the fittings and brackets, cutting and making good the walls wherever required. White glazed fire clay kitchen sink of size 600x450x250 mm.	1.00		Each	
<b>44</b>	<b>Code No: 18.18.1.3</b>				
	Providing and fixing ball valve (brass) of approved quality complete. high or low pressure with plastic floats - 25 mm nominal bore.	1.00		Each	
<b>45</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.	1.00		Each	
<b>46</b>	<b>Code No: 18.21.2.1</b>				
	Providing and fixing uplasticised PVC connection pipe with brass unions 45 cm length 15 mm nominal bore.	1.00		Each	
<b>47</b>	<b>Code No: 9.84</b>				
	Providing and fixing IS:3564 make aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete	1.00		Each	
<b>48</b>	<b>Code No: 18.15.1</b>				
	Providing and fixing brass bib cock of approved quality - 15 mm nominal bore.	2.00		Each	
	<b>Total</b>				

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

**Contractor**

**Officer in-charge**