

PONDICHERY UNIVERSITY
ENGINEERING WING

SCHEDULE OF WORK

Name of the work: Construction of additional lab facility to keep port glove box at
Department of Physics

S.No.	Description	Qty.	Rate Rs.P.	Unit	Amount Rs.P.
1	Code no:15.7.4				
	Demolishing brick work, manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead - In cement mortar.	0.50		Cum	
2	Code no:2.8.1				
	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.	35.00		Cum	
3	Code no:2.27				
	Supplying and filling in plinth with sand under floors including, watering, ramming consolidating and dressing complete.	12.00		cum	
4	Code no:4.1.10				
	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)	13.00		cum	
5	Code no:2.25				
	Filling available excavated earth (excluding rock) in trenches, plinth,	13.00		Cum	

	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	Code no:2.27				
	Supplying and filling in plinth with sand under floors including, watering, ramming consolidating and dressing complete.	21.00		Cum	
7	Code no: 5.1.2				
	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering,shuttering,finishing and reinforcement -All work upto plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	10.00		Cum	
8	Code no: 5.2.2				
	Reinforced cement concrete work in walls (any thickness), including attached pilasters , buttresses, plinth and string courses , fillets, columns , pillars, piers, abutments, posts and struts etc.upto floor five level excluding cost of centering, shuttering,finishing and reinforcement:1:1.5:3 (1 cement : 1.5coarse sand : 3 graded stone aggregate 20mm nominal size)	4.00		Cum	
9	Code no: 5.3.1				
	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).	12.00		Cum	
10	Code no: 5.9.1				
	Centring and shuttering including	46.00		Sqm	

	strutting, propping etc.and removal of form for :Foundations , footings, bases of columns ,etc. for mass concrete.- Using steel sheet with M.S.frames				
11	Code no: 5.9.3				
	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	54.00		Sqm	
12	Code no: 5.9.5				
	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	36.00		Sqm	
13	Code no: 5.9.6				
	Centring and shuttering including strutting, propping etc. and removal of form for: columns, pillars,piers,abutments,posts and struts.- Using steel sheet with M.S.frames	51.00		Sqm	
14	Code no:5.22.6				
	Reinforcement for R.C.C work including straightening , cutting , bending , placing in position and binding all complete - Thermo - Mechanically treated bars (TISCON / VIZAG / IISCO /SAIL / JSW) including placing the M30 grade Athees make cover block @ 60cm centre to centre	2600.00		Kg	
15	Code no:6.1.2				
	Brick work with FPS bricks of class designation 35 in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand)	3.00		Cum	
16	Code no:6.4.2				
	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	24.50		Cum	

	mortar 1:6 (1 cement : 6 coarse sand)				
17	Code no:13.3.2				
	20mm cement plaster of mix cement mortar 1:6 (1 cement : 6 fine sand)	170.00		Sqm	
18	Code no: 13.5.1				
	15mm cement plaster on rough side of single or half brick wall of mix - 1:4 (1 cement : 4 coarse sand)	125.00		Sqm	
19	Code no: 13.16.1				
	6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	53.00		Sqm	
20	Code no: 16.1				
	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	30.00		Sqm	
21	Code no:6.44				
	Brick edging 7 cm wide 11.4 cm deep to plinth protection with bricks of class designation 35 including grouting with cement mortar 1:4 (1 cement: 4 fine sand).	24.00		Rmt	
22	Code no: 11.3.1				
	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.	13.00		Sqm	
23	Code no: 11.13.1				
	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40mm wide and 4mm thick.	11.00		Rmt	
24	Code no: 11.41.2A				
	Providing and laying fully vitrified floor tiles of size 60x60cm (thickness to be specified by the manufacturer)	47.00		Sqm	

	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 routing the joints with white cement and matching pigments etc., complete. Size of Tile 600x600mm.				
25	Code no: 11.36C				
	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 600 mm 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 300x600mm	5.00		Sqm	
26	Code no: 21.1.1.2				
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS : 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass /	25.00		Kg	

	stainless steel screws, all complete as per architectural drawings. (Glazing and panelling to be paid for separately) : For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron)				
27	Code no: 21.1.2.2				
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS : 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings. (Glazing and panelling to be paid for separately) : For shutters of doors, windows and ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	14.00		Kg	
28	Code No: 21.3.2				
	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc., with PVC / neoprene gasket etc., complete as per the architectural	7.00		Sqm	

	drawings. (cost of aluminium snap beading shall be paid in basic item) : With float glass panes of 5mm thickness.				
29	Code no: 10.5.1				
	Providing and fixing 1mm thick M.S. sheet door with frame of 40X40X6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angles 40X40X6mm for diagonal braces.	5.00		Sqm	
30	Code no:10.27				
	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.	910.00		Kg	
31	Code no:9.12P				
	Providing wood work in frames of doors, windows,clerestory windows and other frames, wrought framed and fixed in position - Padak wood	0.080		Cum	
32	Code no: 9.21.1				
	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. - 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	5.00		Sqm	
33	Code no: 9.21.2				
	Providing 40x5 mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and	10.00		Each	

	embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)				
34	Code no: 13.26A				
	Providing and applying ready mixed wall putty (JK / BIRLA) of 2mm thickness over plastered surface to prepare the surface even and smooth complete	120.00		Sqm	
35	Code no: 13.47.1				
	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).	380.00		Sqm	
36	Code no: 9.97.2				
	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	3.00		Nos	
37	Code no: 9.97.4				
	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	3.00		Nos	
38	Code no: 9.100.1				
	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 :-125mm	6.00		Nos	
39	Code no:13.61.1				
	Painting with synthetic enamel paint of approved brand and manufacture	41.00		Sqm	

	to give an even shade - Two or more coats on new work.				
40	Code no: 12.41.2				
	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.	15.00		Rmt	
41	Code No: 12.22				
	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.	2.00		Each	
42	Code No: 12.21.1				
	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.	13.00		Rmt	
43	Code no: 12.42.3.2				
	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.	3.00		Each	
44	Code no: 12.43.2				
	Providing and fixing unplasticised - PVC clips of approved design to	10.00		Each	

	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				
45	Code no: 12.42.6.2				
	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.	2.00		Each	
46	Code no: 12.15.1				
	Painting top of roofs with bitumen of approved quality at 17kg per 10sqm impregnated with a coat of coarse sand at 60 cum 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.	47.00		Sqm	
47	Code no: 13.18				
	Neat cement punning.	15.00		Sqm	
48	Code No: 10.17				
	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 standard design complete.	6.00		Each	
49	Code No: 9.84				
	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	3.00		Each	

50	Code No: 12.20L				
	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	9.00		Cum	
51	Code No: 12.20				
	Providing and laying pressed clay tiles (as Sqm per approved pattern 18mm 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 sand) and finished neat complete.	60.00		Sqm	
52	Code No: 5.29.2.2				
	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment - Aliminium fluted strips 3.15 mm thick - 200 mm wide.	20.00		Rmt	
53	Code No: 5.30				
	Add or deduct for plaster drip course / groove in plastered surface or moulding to R.C.C. projections.	15.00		Rmt	
54	Code No: 13.50.1				
	Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood).	12.00		Sqm	
55	Code No: 12.70				
	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	8.00		Sqm	

	C hook bolts and nuts 8mm dia G.S paint and working etc., complete excluding the cost of purlin , rafter and truss etc.,				
56	Code No: 10.1				
	Structural steel work in single section fixed with or without connecting plate including cutting,hoisting, fixing in position and applying coat of approved steel primer all complete.	70.00		Kg	
57	Code No: 10.19				
	Providing and fixing M.S. round holding down with nuts and washer plates completes.	1.00		Kg	
58	Code No: 10.20				
	Providing and fixing bolts including nuts and washers complete.	1.00		Kg	
	Total				

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

Contractor

Executive Engineer