

SCHDULE OF WORK

N/W Providing false celing arrangement, Aluminium partion work in HES Lab and painting to the computer lab for EEE Dept.

Ref NITT/ CoW/ EMD/Civil Works/ En. No. /13 - 14 , dt

SI.No	Description	Qty	Unit	Rate	Amount
1	WOOD AND P. V. C. WORK				
1.1	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	9	each		
1.2	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete.	9	each		
1.3	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 :				
1.3.1	150x10 mm	17	each		
1.4	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 :				
1.4.1	125 mm	17	each		
2	ROOFING				
2.1	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm or both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :				

2.1.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I.	330	sqm		
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Sl.No	Description	Qty	Unit	Rate	Amount
3	FINISHING				
3.1	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
3.1.1	Two or more coats on new work	330	Sqm		
4	REPAIRS TO BUILDINGS				
4.1	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 50metres lead :				
4.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	16	Sqm		
4.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
4.2.1	One or more coats on old work.	24	Sqm		
4.3	Polishing on wood work with ready made wax polish of approved brand and manufacture :				
4.3.1	Old work	9	Sqm		
4.4	Finishing walls with water proofing cement paint of required shade :				
4.4.1	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	120	Sqm		
5	ALUMINIUM WORK				
5.1	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
5.1.1	For fixed portion.				
5.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	425	kg		

Sl.No	Description	Qty	Unit	Rate	Amount
5.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
5.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	60	kg		
5.2	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
5.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	70	sqm		
5.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) :				
5.3.1	With float glass panes of 5.50 mm thickness	45	sqm		
5.4	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	8	each		

CONTRACTOR

Sd---
CHIEF OF WORKS

SCHDULE OF WORK

N/W Construction of shed for CEESAT Building

Ref NITT/CoW/EMD/Civil Works / En. No /13-14 , dt.

SI.No	Description	Qty	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1.1	All kinds of soil.	30.00	cum		
2	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 up to 50 m and lift upto 1.5 m.	50.00	cum		
3	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	17.00	cum		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
4.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	17.00	cum		
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :				
5.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	11.00	cum		
6	Centring and shuttering including strutting, propping etc. and removal of form for :				
6.1	Foundations, footings, bases of columns, etc. for mass concrete.	12.00	sqm		
6.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	28.00	sqm		
6.3	Columns, Pillars, Piers, Abutments, Posts and Struts.	22.00	sqm		
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
7.1	Cold twisted bars	700.00	kg		

SI.No	Description	Qty	Unit	Rate	Amount
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
8.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	25.00	cum		
9	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer	1,950.00	kg		
10	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	500.00	kg		
11	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.				
11.1.1	40mm thick with 20mm nominal size stone aggregate.	125	sqm		
12.1	12 mm cement plaster of mix :				
12.1	1:6 (1 cement : 6 fine sand)	60.00	sqm		
13	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13.1	1:6 (1 cement : 6 fine sand)	130.00	sqm		
14	Finishing walls with water proofing cement paint of required shade :				
14.1	New work (Two or more coats applied @ 3.84 kg/10 sqm).	190.00	sqm		
15	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
15.1	Two or more coats on new work	100.00	sqm		
16	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall				
16.1	25 mm dia. nominal bore	50.00	metre		
17	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work :				
17.1	25 mm dia. nominal bore	75.00	metre		

Sl.No	Description	Qty	Unit	Rate	Amount
18	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
18.1	25 to 40 mm nominal bore	1.00	each		
19	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
19.1	25 mm nominal bore	1.00	each		
20	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				
20.1	25 mm diameter pipe.	50.00	metre		
21	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				
21.1	25 mm nominal bore	1.00	each		
22	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
22.1	15 mm nominal bore	3.00	each		
23	Supplying and stacking of good earth at site including royalty and carriage complete (earth measured in stacks will be reduced by 20% for payment).	50.00	cum		
24	Providing and fixing of 10 mm thick multiwalled Poly carbonate sheet UV coated on both sides etc (size, shape and pitch of corrugation as approved by Engineers In Charge), the sheet shall be fixed using self drilling/ self tapping screws of size (5.5 x 55 mm) with EDPM seal complete upto any pitcg in horizontal /vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	220.00	sqm		

CONTRACTOR

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CHIEF OF WORKS

Schedule of Work

N/W Construction of Meditation hall in NIT, Trichy.

SLNo	Description	Qty	Unit	Rate (Rs)	Rate in Words
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1	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		
1.1	All kinds of soil.	44	cum
2	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :		
2.1	All kinds of soil		
2.1.1	Pipes, cables etc, not exceeding 80 mm dia.	60	metre
3	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 up to 50 m and lift upto 1.5 m.	43	cum
4	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	17	cum
5	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :		
5.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	23	cum
6	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :		
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	19	cum
8	Centring and shuttering including strutting, propping etc. and removal of form for :		
8.1	Suspended floors, roofs, landings, balconies and access platform.	105	sqm
8.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	34	sqm
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		
9.1	Cold twisted bars	2500	kg
10	Brick work 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 in all shapes and sizes in :		
10.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	55	cum
11	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.		
12	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.		
12.1	Cement mortar 1:4 (1 cement :4 coarse sand)	13	sqm
13	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :		
13.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	28	cum
14	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).		
14.1	Second class teak wood	0.05	cum

15	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		
15.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	3	sqm
16	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :		
16.1	Rectangular or square.	1	sqm
17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.		
17.1	Fixed to openings /wooden frames with rawl plugs screws etc.	700	kg
18	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 :		
18.1	300x16 mm	1	each
19	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 :		
19.1	300x10 mm	2	each
19.2	250x10 mm	1	each
20	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 :		
20.1	125 mm	4	each
21	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.		
21.1	Twin rubber stopper	2	each
22	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	110	kg
23	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
23.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	100	kg
24	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.		
24.1	40mm thick with 20mm nominal size stone aggregate.	175	sqm
25	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	12	sqm
26	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	45	sqm

27	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	20	sqm
28	12 mm cement plaster of mix :		
28.1	1:4 (1 cement : 4 fine sand)	450	sqm
28.2	1:6 (1 cement : 6 fine sand)	120	sqm
29	White washing with lime to give an even shade:		
29.1	New work (three or more coats)	120	sqm
30	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.		
30.1	Two or more coats on new work.	250	sqm
31	Finishing walls with water proofing cement paint of required shade :		
31.1	New work (Two or more coats applied @ 3.84 kg/10 sqm).	230	sqm
32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :		
32.1	Two or more coats on new work	50	sqm
33	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :		
33.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	2	each
34	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
34.1	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	2	each
35	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm or 340x410x265mm sizes respectively.	1	each
36	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.		
36.1	Flexible pipe		
36.1.1	32 mm dia	3	each
37	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.□ Internal work - Exposed on wall		
37.1	20 mm dia. nominal bore	20	metre
37.2	25 mm dia. nominal bore	20	metre
38	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.□ External work :		
38.1	50 mm dia. nominal bore	50	metre
39	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :		

39.1	25 to 40 mm nominal bore	1	each
40	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :		
40.1	25 mm nominal bore	1	each
40.2	50 mm nominal bore	2	each
41	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :		
41.1	25 mm nominal bore	1	each
42	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)		
42.1	20 mm nominal bore	1	each
42.2	25 mm nominal bore	1	each
42.3	50mm nominal bore	1	each
43	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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	2000	per litre
44	Providing and fixing PTMT bib cock of approved quality and colour.		
44.1	15mm nominal bore, 86 mm long. Weighing not less than 88 gms.	2	each
45	Providing and fixing PTMT stop cock of approved quality and colour.		
45.1	15 mm nominal bore, 86mm long. Weighing not less than 88 gms.	2	each
46	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.		
46.1	25 mm nominal bore, 152mm long. Weighing not less than 440 gms.	1	each
47	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:		
47.1	100 mm diameter S.W. pipe	50	metre
48	Providing and fixing square-mouth S.W. gully trap class SP1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :		
48.1	100x100 mm size P type		
48.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	each
49	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) 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 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :		
49.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :		
49.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	each
50	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :		
50.1	For pipes 100 to 230 mm diameter	1	each

51	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :		
51.1	For fixed portion.		
51.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	40	kg
51.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).		
51.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	40	kg
52	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) :		
52.1	With float glass panes of 5.50 mm thickness	12	sqm
53	Providing and fixing of 110mm dia PVC pipe (6 kg/cm ²) etc. rate including the cost of all materials and labour charges etc complete.	60	meter
54	Providing and fixing of 75mm dia PVC pipe (6 kg/cm ²) etc. rate including the cost of all materials and labour charges etc complete.	10	meter

Total

CONTRACTOR

Sd--
CHIEF OF WORKS

SCHEDULE OF WORK

N/W Providing car shed to staff Qts (Qts. No.3/4,6/8,6/10,7/7,7/14,7/19-22,9/5,9/7,10/14,13-B/3, 15/3, 15/4, 16/6, 16/12, 16/17 & 17/3 Total = 19 Nos)

Ref NITT/ CoW/ EMD/Civil Works/ Enq.No. /13 - 14 , dt

SI.No	Description	Qty	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	35	cum		
1.1	All kinds of soil.				
2	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	32	cum		
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :	45	cum		
3.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)				
4	Brick work 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 in all shapes and sizes in :	25	cum		
4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
5	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	3170	kg		
5.1	Hot finished welded type tubes				
6	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.	350	sqm		
6.1	40mm thick with 20mm nominal size stone aggregate.				
7	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	350	sqm		
8	12 mm cement plaster of mix :				
8.1	1:4 (1 cement : 4 fine sand)	105	sqm		
9	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
9.1	Two or more coats on new work	40	sqm		

CONTRACTOR

Sd----

