

**NAME OF WORK :- CONSTRUCTION OF WAITING AREA FOR THE EXISTING OP BLOCK
FOR THQH TIRURANGADI, MALAPPURAM DISTRICT**

PARTA - CIVIL WORKS

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
	DEMOLISHING ANG DISMANTLING				
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	1.10		
2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer - in -charge	Sqm	2.00		
3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge- in cement mortar	Cum	6.00		
4	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead: Of area 3 sq. metres and below	Each	6.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
5	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters 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 With cement mortar 1:4 (1cement: 4 coarse sand).	Sqm	24.00		
6	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.	Sqm	120.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
	EARTH WORK				
7	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. All kinds of soil.	Cum	19.00		
8	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.	Cum	68.00		
9	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor: With Chlorpyriphos/Lindane E.C. 20% with 1 % concentration	Sqm	150.00		
	PLAIN CEMENT CONCRETE				
10	Cement concrete(Cast-in-situ) Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum	15.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
11	Providing and laying damp proof coarse with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size) including and applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof coarse after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil 50mm thick	Sqm	11.00		

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	REINFORCED CEMENT CONCRETE				
12	Providing and laying in position specified grade of reinforced cement concrete,excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level.1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cum	3.00		
12a	Centering and shuttering including strutting, propping etc. and removal of form for. Foundations, footings, bases of columns, etc. forma ss concrete.	Sqm	16.00		
13	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor V level including cost of centering, shuttering, finishing and excluding the cost of reinforcement in 1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	2.00		
13a	Centering and shuttering including strutting, propping etc. and removal of form for. Suspended floors, roofs, landings, balconies and access platform.	Sqm	26.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
14	Reinforcement for RCC works including straightening, cutting, bending, placing in position and binding all complete. Thermo - Mechanically treated bars (Using Vizac, Tata or SAIL)	Kg	625.00		
	BRICK WORK / LATERITE WORK				
15	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: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	22.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
16	Stone work with neatly dressed selected hard laterite stones of good quality size 30X20X19 cm in foundation and plinth cement mortar 1:6 (1 cement : 6 coarse sand) including extra for super structure above plinth level and upto floor V level	Cum	16.00		
17	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 :Cement mortar 1:4 (1 cement : 4 coarse sand	Cum	3.00		
18	Half Brick masonry with FPS bricks of class designation 7.5 in superstructure above plinth level upto floor V level in cement mortar 1:4 (1 cement: 4 coarse sand)	Sqm	13.00		
19	Extra providing and placing in position 2 nos.6mm dia MS bars at every third course of half brick masonry (with F P S Bricks)	Sqm	16.00		
	STEEL WORK				

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
20	Providing and fixing M.S grills of required pattern in frames of windows etc with M.S.flats,square or round bars etc all complete:- Fixed to openings/wooden frames with rawl plugs screws etc	Kg	35.00		
21	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.Hot finished welded type tubes	Kg	3971.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
	ALUMINIUM WORKS				
22	<p>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 and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately): For fixed portion Powdwe coated Aluminium (Minimum thickness of powdwe coating 50 micron)</p>	Kg	100.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
23	<p>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 and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately):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).Powder coated aluminium (minimum thickness of powder coating 50 micron</p>	Kg	82.00		
24	<p>Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.</p>	Each	4.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.5 mm thickness	Sqm	5.00		
26	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness	Sqm	7.00		
27	Providing and fixing 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS12823 Grade 1 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 Pre laminated particle board with decorative lamination on both sides	Sqm	6.00		
28	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge With stainless steel cover plate. minimum 1.25 mm thickness	Each	5.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
29	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete	Each	6.00		
30	Providing nad fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparant or dyed to required colour and shade with necessary screws etc. complete. Single rubber stopper	Each	11.00		
31	providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent od dyed to required colour or shade with necessary screws etc. complete: 250 x 10 mm	Each	11.00		
32	Providing and fixing aluminium handles for windows, 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	Each	6.00		
	FLOORING WORKS				

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
33	Providing and laying polished vitrified floor tiles of minimum size 600x600mm of thickness 10mm or nearest size of M/s. JOHNSON, KAJARIA, NITCO, SOMANY or equivalent in light colours and shades, with water absorption's less than 0.08% and conforming to IS:15622, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with cement and matching pigments etc, complete as directed by the Engineer-in-charge. (Basic price of tile not less than 865/m2)	Sqm	151.00		
34	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 of minimum 350x250 mm size and thickness 5MM of JOHNSON, NITCO, ORIENT, , KAJARIA ,or 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. (Basic price of tile not less than 400/m2)	Sqm	87.00		

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	ROOFING WORKS				
35	Providing and fixing at all heights false ceiling of 8mm thick PVC hollow sheet including providing and fixing of frame work made of special section power pressed from MS sheet and galvanazied in accordance with zinc coating as per IS :277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at1200mm c/c one flange fixed to the ceiling with dash fastner 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of (25x25x0.50)mm of required length and other end of the angle hanger being fixed with nuts &bolts to GI channels (45 x 15 x 0.90)mm running at the rate of 1200mm c/c to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm c/c shall be fixed in a direction perpendicular to GI chanel with connecting clips made out of 2.64mm dia x 230mm long with GI wire at every junction including fixing the PVC sheet with ceiling section and perimeter chanel 0.50mm thick 27mm high having flanges of 20mm	Sqm	157.00		
	and 30mm long, the perimeter of ceiling fixed to25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures 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 drawing and specification and direction of the Engineer in Charge but excluding the cost of painting				

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36	Providing corrugated G.S. sheet (powder coated) roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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. 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm	209.00		
	FINISHING WORKS				
37	6mm cement plaster to ceiling of mix 1 : 3 (1 cement : 3 fine sand)	Sqm	9.00		
38	Extra for plastering on circular work not exceeding 6 m in radius:In two coats	Sqm	8.00		
39	12mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 fine sand)	Sqm	182.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
40	15 mm cement plaster on rough side of single or half brick wall of mix:1:4 (1 cement : 4 coarse sand)	Sqm	68.00		
41	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade.	Sqm	314.00		
41.a	Applying one coat of water thinnable cement primer of approved brand and Water thinnable cement primer.	Sqm	314.00		
42	Finishing walls with Acrylic Smooth exterior paint of required shade:—New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including basecoat of water proofing cement paint applied @ 2.20 kg/ 10 sqm)	Sqm	68.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
43	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm	206.00		
44	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	Sqm	195.00		
45	Steel Work painting- Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work	Sqm	34.00		
	INTERNAL WATER SUPPLY & SANITARY INSTALLATIONS				
46	Providing and fixing wash basin with C.I/ M.S brackets, 15mm C.P. brass pillar taps Kingston/ Gem/ Techno/ Parko, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls and floors wherever require: White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Each	3.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
47	Providing and fixing unplasticised PVC connection pipes with brass unions 30 cm length 15mm nominal bore	Each	3.00		
48	Providing and fixing waste pipe for sink, wash basin or urinals including PVC waste fittings complete:Semi Rigid Pipe-32mm diameter	Each	3.00		
49	Providing and fixing 600x450mm bevelled edge mirror 5mm thick 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.	Each	2.00		
50	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88mm, weighing not less than 190 gms.	Each	3.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
51	Providing and fixing PTMT Soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	Each	3.00		
52	Providing and fixing wall face PVC pipe complete including cutting, chasing in walls and making good the walls etc complete.				
a	25mm PVC pipe (10kg/sqcm)	RM	5.00		
b	32mm PVC pipe (10kg/sqcm)	RM	25.00		
b	32mm PVC pipe (10kg/sqcm)	RM	0.00		
53	Providing and jointing PVC 63mm PVC pipes of (pressure 6 kg/cm ²) for drainage line including testing of joints etc complete. (Sullage Down pipe) 63mm diameter (OD)	RM	4.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
54	Providing and jointing PVC 75mm PVC pipes of (pressure 6 kg/cm ²) for drainage line including testing of joints etc complete. (Sullage Down pipe) 75mm diameter (OD)	RM	30.00		
55	Providing and fixing pvc 10 kg bend of specified diameter including cutting and finishing etc.complete				
a	63mm PVC pipe (10kg/sqcm)	Each	3.00		
b	75mm PVC pipe (10kg/sqcm)	Each	3.00		
56	Providing and fixing pvc 10 kg bend with access door of specified diameter including cutting and finishing etc.complete				
a	63mm PVC pipe (10kg/sqcm)		3.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
b	75mm PVC pipe (10kg/sqcm)		3.00		
57	Providing and fixing pvc 10 kg TEE of specified diameter including cutting and finishing etc.complete				
a	63mm PVC pipe (10kg/sqcm)	Each	3.00		
b	75mm PVC pipe (10kg/sqcm)	Each	3.00		
58	Providing and jointing PVC110mm PVC pipes of (pressure 4 kg/cm ²) for drainage line including testing of joints etc complete. (Rain water Down pipe) 110mm diameter (OD)	RM	42.80		
59	Providing and jointing PVC110mm PVC bend of (pressure 4 kg/cm ²) for drainage line including testing of joints etc complete. (Rain water Down pipe) 110mm diameter (OD)	Each	4.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
60	Providing and jointing PVC110mm PVC bend with access door of (pressure 4 kg/cm ²) for drainage line including testing of joints etc complete. (Rain water Down pipe) 110mm diameter (OD)	Each	4.00		
61	Providing and jointing PVC110mm PVC TEE of (pressure 4 kg/cm ²) for drainage line including testing of joints etc complete. (Rain water Down pipe)	Each	4.00		
62	Providing and fixing unplasticised-P.V.C pipes clips of approved design to unplasticised-P.V.C rain water pipes by means of 50 x 50 x 50 mm 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 walls etc. complete 110mm	Each	20.00		
63	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 110mm inlet and 110mm outlet pvc. Sand cast iron S&S as per IS: 3989	Each	3.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
64	Providing and fixing PTMT (an Engineering thermo plastic) grating of approved quality colour and make 150 mm nominal size square,100mm diameter of the inner hinged round grating.Rectangular type with circular round lid. 50 mm nominal size square 100 mm dia of the inner hinged round grating.	Each	3.00		
65	Providing and fixing C.P brass stop cock (concealed) of standard design of approved make conforming to IS 8931. conforming to IS standards 15 mm nominal bore	Each	3.00		
66	Providing and placing on terrace (at all floor levels) poly ethlyne water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but with out fittings and the base support for tank	Litres	1000.00		
	DRAINAGE WORKS				
67	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	1.00		
68	Supplying and fixing C.I. cover without frame for manholes 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	3.00		

SL No	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount
69	Providing and fixing gun metal gate valve with CI wheel of approved quality(screwed end) – 32mm nominal bore	Each	1.00		
	TOTAL - PART A CIVIL WORKS				