

SCHEDULE OF QUANTITY
NAME OF WORK :- SETTING UP OF SPACE THEATRE FOR SCIENCE CITY AT KOTTAYAM

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
PART -A -CIVIL WORKS					
SUB HEAD :- I EARTH WORK EXCAVATION.					
1.a	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	2,000.00	Sqm		
b	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	2,000.00	Sqm		
c	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width aswell as 10 sqm on plan) including disposal of excavated earth, with all lifts and leads, disposed earth to be levelled and neatly dressed, as per the direction of Engineer in charge.	900.00	Cum		
d	Earth work excavation for Pile cap, Plinth beam and lift well in hard soil and depositing on bank with initial lead up to 50m and lift up to 1.5m including breaking of clods, sectioning of spoil bank, filling in the sides of trenches, basement watering, ramming, consolidating etc . Complete	560.00	Cum		
e	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 etc complete, with all leads and lifts as per the direction of Engineer in charge.	1350.00	Cum		
SUB HEAD :- II PILE WORK					

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
2	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-35 of specified diameter and length below the pile cap, to carry a safe working load not less than specified,excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removalof excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).				
a1	P2 600mm dia	730.00	Rm		
a2	P3 700mm dia	560.00	RM		
b	Chipping and removing top of R.C.C piles upto the cut off levels to line and level carefully without damaging the remaining portion and removing the debris up to a distance of 150m including all related charges etc complete.	26.00	Cum		
c	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc.complete as per specification & the direction of Engineer in-charge				
	Single pile above 50 tonne and upto 100 tonne capacity				
	Routine test				
	60 dia (axial load-80T),70 dia (axial load 110t)				
	test load 60dia-120T and 70dia 165T				

Item No	Description of Item	Quantity	Unit	Rate figures & in words) (In	Amount (in Rs.)
	rate up to 100 /test	1	TEST		
	Rate above 100				
d	110 T	110	MT		
	SUB HEAD - III : - PLAIN CEMENT CONCRETE				
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	50.00	Cum		
	Floor	182.00	Cum		
	SUB HEAD IV: REINFORCED CEMENT CONCRETE.				
4.a	Providing and laying in position machine batched and machine mixed design mix M-35 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures inrecommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is ayable/recoverable separately).				

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
	Extra for providing richer mixes at all floor levels. Note:- excess/less cement over the specified cement content used is payable /recoverable separately				
	Providing M-35 grade concrete instead of M-25 grade BMC/RMC. (Note : Cement content considered in M-35 is @ 350 kg/cum)				
	All work up to plinth level (pilecap,plinth beam,lift well,footing)	307.00	Cum		
b	Providing and laying in position machine batched and machine mixed design mix M-40 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures inrecommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
	Providing M-40 grade concrete instead of M-25 grade BMC/RMC.(Note : Cement content considered in M-40 is @ 360 kg/cum)				
	All works above plinth level & up to floor V level (for column & side wall of water tank)	221.5	Cum		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
c	Providing and laying in position machine batched and machine mixed design mix M-40 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures inrecommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
	Providing M-40 grade concrete instead of M-25 grade BMC/RMC.(Note : Cement content considered in M-40 is @ 360 kg/ cum)				
	Allworks above floor V level for each four floors or part thereof. For column	40.00	Cum		
d	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures inrecommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
	(Note :- Cement content considered in this item is @ 330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately).				
	All works above plinth and up to floor five level (roof level beams, slabs, folding steps & sunshade)	893.4	Cum		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
e	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures inrecommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
	(Note :- Cement content considered in this item is @ 330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately).				
	All works above floor V level for each four floors or part thereof. (roof level beams, slabs, foldings , steps & sunshade)	254.10	Cum		
f	Add for using extra cement in the items of design mix over and above the specified cement content therein	1000.00	Qnt		
	Centering and shuttering including strutting, propping etc. and removal of form for				
	Foundations, footings, bases of columns, etc. for mass concrete	522.00	Sqm		
	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc	154.00	Sqm		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
	Suspended floors, roofs, landings, balconies and access platform	3875.00	Sqm		
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	3695.00	Sqm		
	Columns, Pillars, Piers, Abutments, Posts and Struts	2045.00	Sqm		
	Arches, domes, vaults up to 6 m span	1576.51	Sqm		
	Weather shade, Chajjas, corbels etc., including edges	106.00	Sqm		
g	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured	11050.00	Sqm		
h	Steel reinforcement for R.C.C Fe- 500 . work including straightening, cutting, bending, placing in position and binding all complete above plinth level.Thermo Mechanically Treated bars.	372000.00	Kg		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
i	Providing and fixing in position holding down bolts of property class 4.6 conforming to IS:1367 of various diameters ranging from 12mm to 20 mm including nuts, washers, sleeves ,etc. as per drawings including supply and fixing templates ,supports ,setting out etc. complete as specified and directed as per Technical Specifications & Drawings				
	M27	1050.00	Each		
	M36	130.00	Each		
j	Providing and applying micro-concreting on top and underdeck surfaces of the structural steel Cap Brims with subframes and an additional reinforcements of 8 mm dia at 200 c/c on both directions at top & bottom surfaces including application of elastomer layer of approved colour, texture & pattern, over water proofing coating on the surfaces including all materials &labour charges etc complete.	4500.00	Sqm		
k	Providing and laying non-shrinking cement grout such as SHRINKOMP20 or approved equivalent under base plates of steel columns, etc., for grouts of thickness 40 mm as per the Technical Specifications and drawings. The non- shrinking grout shall be laid as per manufacturer's specifications.	2.00	Cum		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
1	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
	above 3.5m up to 4.5	1277.00	Sqm		
	above 4.5m up to 5.5	1235.00	Sqm		
SUB HEAD V: BRICK WORK					
5.a	Brick work in cement mortar 1:6 (1 cement : 6 coarse sand) using first class Wire cut bricks (22.9 x 11.20 x 7.0 cm) outer exposed and inside with country burnt bricks for superstructure including scaffolding, raking out the joints, curing, cost and conveyance of all materials, labour, lead, lift etc. complete, as directed by the Engineer in Charge.				
	Ground floor	120.00	Cum		
	First floor	44.00	Cum		
	Second floor	42.00	Cum		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
	up to 14.95 level	41.00	Cum		
	up to 18.55 level	41.00	Cum		
	up to 21.55 level	31.00	Cum		
b	Supplying and cladding exposed external faces of columns and beams with Wirecut bricks to a thickness of 5cm using CM 1:3 including cost and conveyance of all materials hire and labour charges etc complete.	553.00	Sqm		
	<u>BLOCK MASONRY</u>				
c	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete. (20 cm thick), as directed by the Engineer in charge.	355.00	Cum		
d	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	1000.00	Kg		
	SUB HEAD VI: ALUMINIUM WORK.				

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
6.a	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately	6.30	Sqm		
b	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) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	515.00	Kg		
c	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)	328.00	KG		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
d	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum 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.	44.60	Sqm		
e	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 s				
1	With float glass panes of 5.50 mm thickness	36.50	Sqm		
2	With float glass panes of 8 mm thickness	146.60	Sqm		
f	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for to the existing floor finishing and cover plates with brass pivot and embedding in floors as required and making good the same matching doors, including cost of cutting floors, 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	21.00	Each		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
g	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 nuts and screws etc. complete-125 mm	42.00	EACH		
h	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 nuts and screws etc. complete-250 X 10 mm	88.00	Each		
i	Providing and fixing IS: 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.	42.00	Each		
j	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	42.00	Each		
k	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	42.00	Each		
l	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer- in-charge complete.255 X 19 mm	10.00	Each		
	SUB HEAD VII :STEEL WORK				
7.a	Providing MS protection grills using Mild steel flats including cost and conveyance of all materials hire and labour for fabricating, applying a coat of iron primer and labour charges for fixing in position etc. complete.	1500.00	Kg		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
b	Supplying and fixing of handrails with 2"x1" M.S Rectangular square tube at top with 1.50" M.S square square tube Vertically fixed and 1/2" M.S square tube 5nos for connecting horizontally and diagonally as per the approved design and drawing and as per the instructions of Engineer-in-Charge including cost and conveyance of all materials welding charges hire and labour charges for fixing etc complete	2750.00	Kg		
c	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3 mm M.S. gusset plates at the junctions and corners,all necessary fittings complete, including applying a priming coat of approved steel primer	2.10	Sqm		
d	Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel ST-42W conforming to IS:2062 & IS:808, including cutting, welding or bolting, supply of bolts/nuts/washers etc. complete as per drawings including surface preparation and applying one coat of red oxide primer or zinc rich epoxy primer as per specification before erection and all material and labour complete. (The rate quoted shall include cost of high strength bolts for Primary Members & ordinary bolts for Secondary Members, nuts, washers,welding and electrodes required for the work as per the Technical Specifications and drawings).	65000.00	Kg		
e	Supplying, fabricating, erecting, hoisting and fixing in position at all elevations structural steel work made from tubular sections of grade YST 22 conforming to IS:1239 and IS:1161 including site and shop fastening members, bolting, welding (machining of members wherever necessary) at all heights above ground level and including surface preparation and applying one coat of zinchromite epoxy primer enamel paint as per specification before erection with all materials and labour complete in all respects as per technical specifications and drawings	181500.00	Kg		
SUB HEAD VIII : PVC WORK					

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
8.a	<p>Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin-charge. Extruded section profile size 48x40 mm</p>	85.00	Rm		
b	<p>24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The anelsfilled vertically and tie bar at two places by inserting rizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).</p>	29.00	Sqm		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
SUB HEAD 1X :WATER PROOFING					
9	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with waterproofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry	100.00	Sqm		
SUB HEAD X : FLOORING					
10.a	Providing and laying vitrified floor tiles in different sizes thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours 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 600x600 mm (Lowest retail price not less than Rs. 900/m2)	2200.00	Sqm		
b	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White,Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete. (Lowest retail price not less than Rs.550/m2)	100.00	Sqm		
c	Providing and fixing 1st quality ceramic glazed wall tiles of size 300x450 mm 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. (Lowest retail price not less than Rs. 450/m2)	170.00	Sqm		

Item No	Description of Item	Quantity	Unit	Rate figures & in words) (In	Amount (in Rs.)
d	Providing and laying decorative designer coloured cement concrete tiles of any branded make with a minimum thickness (+/-20mm) and of size, design approved by the Engineer - in - Charge conforming to IS 1237-1980 of approved tiles over a bed mortar of 25mm thick using CM 1:6 and filling the joints with matching coloured cement and finishing to required line and level, curing etc complete all as per manufacturers specifications including cost and conveyance of all materials hire and labour charges etc. complete	351.00	Sqm		
SUB HEAD X1 : FINISHING.					
11.a	Plastering the Ceiling with CM 1:3,6mm thick floated hard and trowelled smooth after hacking the surface and watering, curing, scaffolding charges including cost and conveyance of all materials and hire labour charges etc complete	3562.00	Sqm		
b	Plastering the internal walls with CM 1:4, 12mm thick floated hard and trowelled smooth and watering, curing and scaffolding charges including cost and conveyance of all materials and hire labour charges etc complete	6810.00	Sqm		
c	Pointing out side walls with CM 1:4, 12mm thick floated hard and trowelled smooth and watering, curing and scaffolding charges including cost and conveyance of all materials and hire labour charges etc complete	2100.00	Sqm		
d	Providing bordering / watercutting to bottom of sunshades and roof projection including all cost and conveyance of all materials hire and labour charges etc complete	450.00	Rm		
e	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1 : 2 : 4 (1 cement 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.	2300.00	Sqm		

Item No	Description of Item	Quantity	Unit	Rate figures & in words) (In	Amount (in Rs.)
f	Roof plastering using CM 1:3, 15 mm thick floated hard and trowelled smooth after making smooth gradient to facilitate the rain water to flow smoothly also charges towards watering, curing including cost and conveyance of all materials and hire and labour charges etc complete after mixing the water proofing compound in the manufacturer's recommended dosage.	2300.00	SQM		
12.a	Distempering Ceiling with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work	11000.00	Sqm		
b	Painting plastered surfaces with two coats of ready mixed plastic emulsion paint of approved colour, shade to give an even shade with matt finish over a coat of cement primer and after rubbing and cleaning the surface and levelling with a coat of wall putty including including cost and conveyance of all materials hire and labour charges etc. complete	6800.00	Sqm		
c	Painting plastered external surfaces with two coats of Anti fungal exterior emulsiion of superior quality of any branded make and colour over a coat of cement primer and including filling the crevices with approved filler materials including cost and conveyance of all materials hire and labour charges etc complete	2252.00	Sqm		
d	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	245.00	Sqm		

Item No	Description of Item	Quantity	Unit	Rate figures & in words) (In	Amount (in Rs.)
13	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center				
a	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS:2095 part I , of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	780.00	Sqm		
PART B : PLUMBING & SANITARY WORKS					
SUB HEAD XIV SANITARY WORKS					
14.a	Supplying and fixing European type white glazed earthen ware W.C Pan with ' P ' or ' S ' trap as required (Indian make best quality) and Duroplastic seat and lid with C.P brass hinges and rubber buffers etc., low level PVC flushing cistern with float valve and all internal fittings and 2 no C.P brass bracket,1 no. 15mm CP Brass angle valve,1no 15mm PVC connection, 40mm PVC flush pipe, over flow pipe with mosquito proof arrangement etc. complete including cutting and making good the walls and floors.	16	Each		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
b	Supplying and fixing white glazed European water closet, wash basin, one hinged hand rails, two grab rails and all associated accessories like flushing cistern, seat and cover, CP brass angle valve, CP brass pillar tap with spatula lever, waste coupling etc. to make the toilet functional for special need persons including cutting and making good the walls and floor, etc. complete.	2	Set		
b	Supplying and fixing 490mm dia. or nearest size circular wash hand basin of white glazed earthenware (Indian make best quality) counter sunk already built with necessary chipping and chamfering and finishing including supplying and fixing 32mm CP brass waste with plug and chain – 1no., 15mm CP brass pillar tap (Heavy, best quality) 1 no., 32mm PVC waste pipe and 15mm heavy duty PVC connection 1 no 15mm CP Brass angle valve including cutting and making good the walls etc. complete.	18	No.		
d	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430mmx260mm x350mm or nearest size with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	6.00	No.		
e	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing. Circular shape 450 mm dia.	18.00	Each		
f	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	8.00	Each		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
g	Supplying and fixing PVC Floor Trap 100mmx75mm size with Jali including cutting open, boring through walls, RCC slabs etc. and making good the damages.	24	Each		
h	Supply , jointing and fixing 110mm OD 6 Kgf UPVC pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum of 4.5kg/cm2 static head for at least half an hour, finishing complete.	105	Rm		
i	Supply , jointing and fixing 75mm OD 6 Kgf UPVC pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum of 4.5kg/cm2 static head for at least half an hour, finishing complete.	60	Rm		
j	Supply , jointing and fixing 50mm OD 6 Kgf UPVC pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum of 4.5kg/cm2 static head for at least half an hour, finishing complete.	43	M		
k	Supplying and fixing 110mm PVC Ventilation Cowl in position.	6	No.		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
l	Supplying and fixing 75mm PVC Ventilation Cowl in position.	2	Each		
m	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	18	Each		
n	Supplying and fixing 700mm x 340mm X 120mm or nearest size Division plate of porcelain material including making good the wall etc. complete.	8	Each		
SUB HEAD XV WATER SUPPLY WORKS					
15.a	Supply, jointing and fixing 32mm OD 15 Kgf uPVC (Water supply- concealed) pipes and uPVC specials/end fitting with brass inserts conforming to IS standards with good quality solvent cement using teflon tape chasing the walls and floors, making the holes, clamping to walls using pipe hooks and restoring the same to the original conditions, necessary excavation, testing the pipe line using a manually operated test pump to a pressure of 10 Kg/cm ² or twice the working pressure or static head whichever is greater, maintaining the test pressure at least for half an hour complete as specified and directed .	54	Rm		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
b	Supply, jointing and fixing 25mm OD 15 Kgf uPVC (Water supply- concealed) pipes and uPVC specials/end fitting with brass inserts conforming to IS standards with good quality solvent cement using teflon tape chasing the walls and floors, making the holes, clamping to walls using pipe hooks and restoring the same to the original conditions, necessary excavation, testing the pipe line using a manually operated test pump to a pressure of 10 Kg/cm ² or twice the working pressure or static head whichever is greater, maintaining the test pressure at least for half an hour complete as specified and directed .	132	Rm		
c	Supply , jointing and fixing 50mm OD 10 Kgf uPVC (Water supply - exposed) pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum 6 Kg/cm ² or 1.5 times the maximum working pressure or static head to which the pipe line shall be subjected whichever is greater maintaining the test pressure for at least half an hour, finishing complete.	15	M		
d	Supply , jointing and fixing 50mm OD 10 Kgf uPVC (Water supply - exposed) pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum 6 Kg/cm ² or 1.5 times the maximum working pressure or static head to which the pipe line shall be subjected whichever is greater maintaining the test pressure for at least half an hour, finishing complete.	40	Rm		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
e	Supply , jointing and fixing 32mm OD 10 Kgf uPVC (Water supply - exposed) pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum 6 Kg/cm2 or 1.5 times the maximum working pressure or static head to which the pipe line shall be subjected whichever is greater maintaining the test pressure for at least half an hour, finishing complete.	32	Rm		
f	Supply , jointing and fixing 25mm OD 10 Kgf uPVC (Water supply - exposed) pipes and specials with good quality solvent cement and teflon tape and fixing the same to line, plumb and level on the sides of ducts, walls, slabs as the case may be by using slotted rails , U clamps, 8mm threaded rods and other required materials including drilling holes, making good the walls, cleaning etc. and testing the pipe line to minimum 6 Kg/cm2 or 1.5 times the maximum working pressure or static head to which the pipe line shall be subjected whichever is greater maintaining the test pressure for at least half an hour, finishing complete.	42	Rm		
g	Supplying and fixing good quality concealed type (20mm) CP Brass Stop Cock (best quality, heavy) long body with flange in position.	16	Each		
h	Supplying and fixing 15mm CP douche tap (health faucet with angle valve) in position.	18	Each		
i	Supplying and fixing CP Brass (best quality, heavy) long body tap in position.	18	Each		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
j	Supplying and fixing 40mm or nearest size full way GM wheel valve (superior quality) in position.	1	Each		
k	Supplying and fixing 32mm or nearest size full way GM wheel valve (superior quality) in position.	3	Each		
l	Supplying and fixing 25mm or nearest size full way GM wheel valve (superior quality) in position.	2	Each		
m	Supplying and fixing 20mm or nearest size full way GM wheel valve (superior quality) in position.	4	Each		
n	Supply, installation, testing and commissioning of 25mm dia of GM float valve with flexible rod and PVC ball.	2	Each		
o	OHT PVC Supply, fixing, testing and commissioning of over head PVC water tank of 1000 litres capacity including transportation and cost of accessories.	2000	Litre		
SUB HEAD XVI SEWER LINES					
16.a	Supplying, laying 110mm dia. uPVC pipe, 4 kgf (pasted type) lowering into trenches , placing in position, aligning to line and levels and jointing with solvent cement and testing to specified head including earth work excavation in all classes of soil and hire for tools and equipments etc. complete.	70	M		

Item No	Description of Item	Quantity	Unit	Rate figures & in words) (In	Amount (in Rs.)
b.	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with 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 40 mm nominal size), inside plastering 12 mm 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 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design.				
	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).				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	10	each		
c	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg).				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	6	Each		
d	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 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				
	100x100 mm size P type				

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	13	Each		
e	Septic tank 100 users Supply, fixing, testing and commisioning of septic tank of readymade type of 100 user capacity including transportation, earth work excavation and back filling as required by engineer at site.	1	Each		
f	Soak pit Supply, fixing, testing and commisioning of soak pit 100 users capacity including transportation, earth work excavation and back filling as required by engineer at site	1	Each		
SUB HEAD XVII ROOF WATER DRAINAGE					
17.a	Providing and fixing on wall face unplasticised Rigid 110 PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.	60	Rm		
(i)	110mm PVC Coupler	10	Rm		
(ii)	110mm PVC Bend 87.5°	10	Each		
(iii)	110mm PVC Pipe clip	40	Each		

Item No	Description of Item	Quantity	Unit	Rate (In figures & in words)	Amount (in Rs.)
b	Supplying and fixing 125mm PVC circular gratings including cutting, chasing wall, floors and making good the same etc. complete.	12	Each		
c	Constructing masonry shoe to the bottom of the rain water pipes with brick in cement mortar 1:6 over CC 1:4:8 using 40mm metal concrete, plastering the exposed surfaces using CM 1:5 one coat, forming the circular spout outlet, finishing etc. complete.	12	Each		
	TOTAL				