

SCHEDULE OF QUANTITIES

Name of the work : Construction of Multi purpose Indoor Stadium at Mundayad, KANNUR.

PART - A

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
Sub-Head : Earth Work							
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m,disposed earth to be levelled and neatly dressed.						
a)	All kinds of soil	6348	Cum	169.78	Rupees One Hundred Sixty Nine and Seventy Eight Paisas Only	One Cubic Metre	1077763.00
b)	Ordinary rock / hard laterite	19045	Cum	289.13	Rupees Two Hundred Eighty Nine and Thirteen Paisas Only	One Cubic Metre	5506481.00
2	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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.						
a)	All kinds of soil.	300	Cum	171.96	Rupees One Hundred Seventy One and Ninety Six Paisas Only	One Cubic Metre	51588.00
b)	Ordinary rock /hard laterite	100	Cum	312.04	Rupees Three Hundred Twelve and Four Paisas Only	One Cubic Metre	31204.00
3	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, inlayers 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 :						
a)	All kinds of soil						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
(i)	Pipes, cables etc., exceeding 80 mm dia. but not exceeding 300 mm dia.	460	m	141.25	Rupees One Hundred Forty One and Twenty Five Paisas Only	One Running Metre	64975.00
4	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 up to 1.5 m.	27555	Cum	126.99	Rupees One Hundred Twenty Six and Ninety Nine Paisas Only	One Cubic Metre	3499209.00
5	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.						
a)	All kinds of soil.	169	Cum	64.56	Rupees Sixty Four and Fifty Six Paisas Only	One Cubic Metre	10911.00
b)	Ordinary rock/ hard laterite.	506	Cum	115.44	Rupees One Hundred Fifteen and Forty Four Paisas Only	One Cubic Metre	58413.00
6	Supplying and filling in plinth with stone dust under floors, including watering, ramming, consolidating and dressing complete.	50	Cum	2886.85	Rupees Two Thousand Eight Hundred Eighty Six and Eighty Five Paisas Only	One Cubic Metre	144343.00
7	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 disposal of rubbish up to a distance of 5.0 km outside the compound.	14400	Sqm	853.56	Rupees Eight Hundred Fifty Three and Fifty Six Paisas Only	100 Square Metre	122913.00
	Total						
	Sub-Head : Plain Cement Concrete						
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
a)	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	36	Cum	6134.43	Rupees Six Thousand One Hundred Thirty Four and Forty Three Paisas Only	One Cubic Metre	220839.00
b)	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	927	Cum	5770.71	Rupees Five Thousand Seven Hundred Seventy and Seventy One Paisas Only	One Cubic Metre	5349448.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
9	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain windowsills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :						
a)	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	102	Cum	7458.79	Rupees Seven Thousand Four Hundred Fifty Eight and Seventy Nine Paisas Only	One Cubic Metre	760797.00
10	Centering and shuttering including strutting, propping etc. and removal of form work for :						
a)	Foundations, footings, bases for columns.	99	Sqm	214.94	Rupees Two Hundred Fourteen and Ninety Four Paisas Only	One Square Metre	21279.00
b)	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc..	233	Sqm	424.41	Rupees Four Hundred Twenty Four and Forty One Paisas Only	One Square Metre	98888.00
11	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specifications	650	units	35.33	Rupees Thirty Five and Thirty Three Paisas Only	per 50 kg cement	22965.00
12	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth	191	Sqm	541.90	Rupees Five Hundred Forty One and Ninety Paisas Only	One Square Metre	103503.00
	Total						
Sub-Head : Reinforced Cement Concrete							
13	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 : Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-charge						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	50	Cum	7798.32	Rupees Seven Thousand Seven Hundred Ninety Eight and Thirty Two Paisas Only	One Cubic Metre	389916.00
14	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	5	Cum	8221.91	Rupees Eight Thousand Two Hundred Twenty One and Ninety One Paisas Only	One Cubic Metre	41110.00
15	Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete.						
a)	Foundations, footings, bases of columns, etc. for mass concrete.	1059	Sqm	214.94	Rupees Two Hundred Fourteen and Ninety Four Paisas Only	One Square Metre	227621.00
b)	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	170	Sqm	424.41	Rupees Four Hundred Twenty Four and Forty One Paisas Only	One Square Metre	72150.00
c)	Suspended floors, roofs, landings, balconies and access platform.	2641	Sqm	476.82	Rupees Four Hundred Seventy Six and Eighty Two Paisas Only	One Square Metre	1259282.00
d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	7767	Sqm	386.48	Rupees Three Hundred Eighty Six and Forty Eight Paisas Only	One Square Metre	3001790.00
e)	Columns, Pillars, Piers, Abutments, Posts and Struts.	4085	Sqm	521.23	Rupees Five Hundred Twenty One and Twenty Three Paisas Only	One Square Metre	2129225.00
f)	Stairs, (excluding landings) except spiral-staircases.	418	Sqm	435.71	Rupees Four Hundred Thirty Five and Seventy One Paisas Only	One Square Metre	182127.00
g)	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards.	100	Sqm	714.83	Rupees Seven Hundred Fourteen and Eighty Three Paisas Only	One Square Metre	71483.00
h)	Cornices and mouldings	917	Sqm	572.03	Rupees Five Hundred Seventy Two and Three Paisas Only	One Square Metre	524552.00
i)	Weather shade, Chajjas, corbels etc., including edges.	326	Sqm	545.93	Rupees Five Hundred Forty Five and Ninety Three Paisas Only	One Square Metre	177973.00
16	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 5 m, for every additional height of 5 metre (Plan area to be measured)						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
a)	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	2936	Sqm	195.04	Rupees One Hundred Ninety Five and Four Paisas Only	One Square Metre	572637.00
17	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level.						
a)	Thermo-Mechanically Treated bars.	448497	Kg	75.73	Rupees Seventy Five and Seventy Three Paisas Only	One Kilogram	33964678.00
18	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand)	12069	Sqm	152.10	Rupees One Hundred Fifty Two and Ten Paisas Only	One Square Metre	1835695.00
19	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	531	m	34.95	Rupees Thirty Four and Ninety Five Paisas Only	One Running Metre	18558.00
20	Providing and fixing in position copper plate as per design for expansion joints.	468	Kg	338.62	Rupees Three Hundred Thirty Eight and Sixty Two Paisas Only	One Kilogram	158474.00
21	Providing and filling in position, blown bitumen in expansion joints.	22	units	594.84	Rupees Five Hundred Ninety Four and Eighty Four Paisas Only	per cm depth per cm width per 100m	13086.00
22	Providing and filling in position bitumen mix filler of Proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of coarse sand for expansion joints.	58	units	228.22	Rupees Two Hundred Twenty Eight and Twenty Two Paisas Only	per cm depth per cm width per 100m	13237.00
23	Providing and fixing in position 12mm thick bitumen impregnated fiber board conforming to IS: 1838 including cost of primer, sealing compound in expansion joints.	4435	units	483.70	Rupees Four Hundred Eighty Three and Seventy Paisas Only	per cm depth per cm width per 100m	2145210.00
24	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.						
a)	Non-asbestos fiber cement board 6 mm thick as per IS: 14862						
(i)	200mm wide.	162	m	175.70	Rupees One Hundred Seventy Five and Seventy Paisas Only	One Running Metre	28463.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
25	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 in recommended 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 @330kg/cum. Excess/less cement used as per design mix is payable / recoverable seperately.)						
a)	All works up to plinth level.	1297	Cum	10228.07	Rupees Ten Thousand Two Hundred Twenty Eight and Seven Paisas Only	One Cubic Metre	13265807.00
b)	All works above plinth level up to floor V level.	1493	Cum	11051.29	Rupees Eleven Thousand Fifty One and Twenty Nine Paisas Only	One Cubic Metre	16499576.00
26	Extra for providing richer mixes at all floor levels. (Note: Excess/less cement over the specified cement content used is payable/recoverable seperately.)						
a)	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @340 kg/cum).	479	Cum	77.97	Rupees Seventy Seven and Ninety Seven Paisas Only	One Cubic Metre	37348.00
b)	Providing M-35 grade concrete instead of M-25 grade BMC/RMC. (Note : Cement content considered in M-35 is @350 kg/cum).	10	Cum	155.94	Rupees One Hundred Fifty Five and Ninety Four Paisas Only	One Cubic Metre	1559.00
Total							
Sub-Head : Brick Work							
27	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 75 in foundation and plinth in:						
a)	Cement mortar 1:4 (1 cement : 4 coarse sand)	75	Cum	5598.56	Rupees Five Thousand Five Hundred Ninety Eight and Fifty Six Paisas Only	One Cubic Metre	419892.00
b)	Cement mortar 1:6 (1 cement : 6 coarse sand)	16	Cum	5362.14	Rupees Five Thousand Three Hundred Sixty Two and Fourteen Paisas Only	One Cubic Metre	85794.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
28	Laterite masonry with dressed laterite stones of size 35x20x20 cm (approximately) in cement mortar 1:6 (1 cement: 6 coarse sand) for Panel walls in super structure up to floor five level.						
a)	Cement mortar 1:6 (1 cement : 6 coarse sand)	772	Cum	4401.00	Rupees Four Thousand Four Hundred One Only	One Cubic Metre	3397572.00
29	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.						
a)	Cement mortar 1:3 (1 cement :3 coarse sand)	16	Sqm	781.89	Rupees Seven Hundred Eighty One and Eighty Nine Paisas Only	One Square Metre	12510.00
b)	Cement mortar 1:4 (1 cement :4 coarse sand)	208	Sqm	755.41	Rupees Seven Hundred Fifty Five and Forty One Paisas Only	One Square Metre	157125.00
30	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	208	Sqm	76.70	Rupees Seventy Six and Seventy Paisas Only	One Square Metre	15954.00
	Total						
Sub-Head : Stone Work							
31	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) upto plinth level with :						
a)	Cement mortar 1:6 (1 cement : 6 coarse sand).	165	Cum	5578.81	Rupees Five Thousand Five Hundred Seventy Eight and Eighty One Paisas Only	One Cubic Metre	920504.00
32	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	1246	Sqm	625.99	Rupees Six Hundred Twenty Five and Ninety Nine Paisas Only	One Square Metre	779984.00
	Total						
Sub-Head : Marble Work							

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
33	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.						
a)	Granite of any colour and shade						
(i)	Area of slab over 0.50 sqm.	158	Sqm	3447.31	Rupees Three Thousand Four Hundred Forty Seven and Thirty One Paisas Only	One Square Metre	544675.00
34	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.						
a)	Granite work.	378	m	313.35	Rupees Three Hundred Thirteen and Thirty Five Paisas Only	One Running Metre	118446.00
35	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per direction of Engineer-in-charge and finished smooth.						
a)	Granite Stone of approved shade.	8	Sqm	2647.95	Rupees Two Thousand Six Hundred Forty Seven and Ninety Five Paisas Only	One Square Metre	21184.00
	Total						
	Sub-Head : Wood and PVC Work						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
36	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).						
a)	Second class teak wood	3.09	Cum	133167.22	Rupees One Lakh Thirty three Thousands One Hundred and Sixty Seven and twenty two paise only	One Cubic Metre	411487.00
37	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1stclass hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters and with teak wood lipping 25 mm minimum thickness.						
a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	152	Sqm	2408.99	Rupees Two Thousand Four Hundred Eight and Ninety Nine Paisas Only	One Square Metre	5803233.00
38	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) :						
a)	Rectangular or square.	152	Sqm	209.07	Rupees Two Hundred Nine and Seven Paisas Only	One Square Metre	31779.00
39	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete.						
a)	50 mm long	246	No.	28.89	Rupees Twenty Eight and Eighty Nine Paisas Only	Each	7107.00
40	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.						
a)	Fixed to openings /wooden frames with rawl plugs screws etc.	2071	Kg	135.56	Rupees One Hundred Thirty Five and Fifty Six Paisas Only	One Kg	280745.00
41	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 :						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
a)	300x16 mm	41	No.	226.37	Rupees Two Hundred Twenty Six and Thirty Seven Paisas Only	Each	9281.00
b)	250x16 mm	53	No.	188.04	Rupees One Hundred Eighty Eight and Four Paisas Only	Each	9966.00
42	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 :						
a)	250x10 mm	94	No.	94.49	Rupees Ninety Four and Forty Nine Paisas Only	Each	8882.00
b)	150x10 mm	94	No.	64.87	Rupees Sixty Four and Eighty Seven Paisas Only	Each	6098.00
43	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 :						
a)	125 mm	90	No.	67.35	Rupees Sixty Seven and Thirty Five Paisas Only	Each	6062.00
b)	100 mm	190	No.	54.42	Rupees Fifty Four and Forty Two Paisas Only	Each	10340.00
c)	75 mm	96	No.	45.68	Rupees Forty Five and Sixty Eight Paisas Only	Each	4385.00
44	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size, complete as per manufacturers specification and direction of Engineer-in-Charge.	138	m	680.59	Rupees Six Hundred Eighty and Fifty Nine Paisas Only	One Running Metre	93921.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
45	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45 degree angle on both side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail.						
	Panelling of 5mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm(5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge. Manufacturer's specification & drawing						
a)	30 mm thick plain PVC door shutters.	45	Sqm	3365.08	Rupees three thousand three hundred and sixty five and paise eight only	One Square Metre	151429.00
	Total						
	Sub-Head : Steel Work						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
46	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.	62939	Kg	74.50	Rupees Seventy Four and Fifty Pisas Only	One Kilogram	4688956.00
47	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: (for the work of roof truss - structural design, proof checked by IIT/IISC/Govt Engg colleges of repute, to be submitted by the agency without any extra cost)	297896	Kg	82.01	Rupees Eighty Two and One Paise Only	One Kilogram	24430451.00
48	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size, with top and bottom rail of T-iron 40x40x6mm, with 40mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	86	Sqm	6098.91	Rupees Six Thousand Ninety Eight and Ninety One Pisas Only	One Square Metre	524506.00
49	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 -part 1 and M.S. top cover of required thickness for rolling shutters.						
a)	80x0.90 mm M.S. laths with 0.90 mm thick top cover.	106	Sqm	2767.98	Rupees Two Thousand Seven Hundred Sixty Seven and Ninety Eight Pisas Only	One Square Metre	293406.00
50	Providing and fixing ball bearing for rolling shutters.	16	No.	429.87	Rupees Four Hundred Twenty Nine and Eighty Seven Pisas Only	Each	6878.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
51	Extra for providing mechanical device chain and crank operation for operating rolling shutters.						
a)	Exceeding 10.00 sqm and upto 16.80 sqm in the area.	106	Sqm	627.37	Rupees Six Hundred Twenty Seven and Thirty Seven Paisas Only	One Square Metre	66501.00
52	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.						
a)	Hot finished welded type tubes.	1360	Kg	101.53	Rupees One Hundred One and Fifty Three Paisas Only	One Kilogram	138081.00
53	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop, all as per standard design complete.	650	No.	140.71	Rupees One Hundred Forty and Seventy One Paisas Only	Each	91462.00
54	Providing and fixing stainless steel (Grade SS 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	2140	Kg	589.88	Rupees Five Hundred Eighty Nine and Eighty Eight Paisas Only	One Kilogram	1262343.00
	Total						
	Sub-Head : Flooring						
55	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.						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
a)	40mm thick with 20mm nominal size stone aggregate.	2729	Sqm	433.55	Rupees Four Hundred Thirty Three and Fifty Five Paisas Only	One Square Metre	1183158.00
56	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement.						
a)	18 mm thick.	690	Sqm	408.51	Rupees Four Hundred Eight and Fifty One Paisas Only	One Square Metre	281872.00
57	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	2729	Sqm	41.73	Rupees Forty One and Seventy Three Paisas Only	One Square Metre	113881.00
58	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.						
a)	40 mm wide and 4 mm thick.	1819	m	41.67	Rupees Forty One and Sixty Seven Paisas Only	One Running Metre	75798.00
59	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :						
a)	25 mm thick.	264	Sqm	1264.53	Rupees One Thousand Two Hundred Sixty Four and Fifty Three Paisas Only	One Square Metre	333836.00
60	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	120	Sqm	1281.27	Rupees One Thousand Two Hundred Eighty One and Twenty Seven Paisas Only	One Square Metre	153752.00
61	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	950	m	95.82	Rupees Ninety Five and Eighty Two Paisas Only	One Running Metre	91029.00
62	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre .	384	Sqm	21.88	Rupees Twenty One and Eighty Eight Paisas Only	One Square Metre	8402.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
63	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness not less than 5mm) 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.	543	Sqm	973.77	Rupees Nine Hundred Seventy Three and Seventy Seven Paisas Only	One Square Metre	528757.00
64	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness not less than 5 mm) 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 : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	466	Sqm	981.76	Rupees Nine Hundred Eighty One and Seventy Six Paisas Only	One Square Metre	457500.00
65	Providing and laying vitrified floor tiles in different sizes (thickness nor less than 8 mm) with water absorption's 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.						
a)	Size of Tile 600x600 mm	1886	Sqm	1541.22	Rupees One Thousand Five Hundredand Forty One and twenty Two Paise only	One Square Metre	2906741.00
	Total						
	Sub-Head : Roofing						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
66	Fabrication, supply, erection and fixing of cold rolled colour coated zinalume steel (AL-55%, ZN-43.5%) profiled sheets conforming to AS 1397-AZ 150 / ASTM A 792 of 0.58mm TCT (Total coated thk) having minimum yield strength of 550 Mpa corugated to suti a purlin spacing at 1.65 m center with standing scam / clippon profile (NO penetration of he external roof surface shall be allowed except where longitudinal laps are provided) with compatibole concealed fixing clips, fasteners for fixing clips of approved amke quality and type. The sheet are to be pre-painted exterior modified weathering polyester paint system (XRW colour bond or equivalent conforming to AS 2728 cateogry or equivalent). The minium dry film thickness (DFT) of paint system shall be top coat of minimum 20 microns over 5 micron epoxy primer and back coat of 5 micron (minimum) over 5 micron primer. The quoted rates shall be inclusive of all laps corrugations, wastages, diagonal, cutting all as per drawing and site requirement.						
	The measurement shall be based on finished / covered roof area. The quoted rate shall be inclusive of supply of material, colour coating, profiling, supply of fixture / fasteners, sealants, colour cap, flashing, capping, trims, storage of material, loading, transportation, unloading, all machinery, plant, equipment, labour, testing, supervision for fixing etc.	6141	Sqm	949.00		One Square Metre	5827809.00
				LMR			
67	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i)Single socketed pipes.						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
a)	110 mm diameter	294	m	244.91	Rupees Two Hundred Forty Four and Ninety One Paisas Only	One Running Metre	72004.00
68	Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.						
a)	Coupler						
(i)	110mm	36	No.	155.81	Rupees One Hundred Fifty Five and Eighty One Paisas Only	Each	5609.00
b)	Single tee with door						
(i)	110x110x110 mm	28	No.	314.85	Rupees Three Hundred Fourteen and Eighty Five Paisas Only	Each	8816.00
c)	Single tee without door						
(i)	110x110x110 mm	18	No.	266.06	Rupees Two Hundred Sixty Six and Six Paisas Only	Each	4789.00
d)	Bend 87.5°						
(i)	110 mm bend	18	No.	205.76	Rupees Two Hundred Five and Seventy Six Paisas Only	Each	3704.00
e)	Shoe (Plain)						
(i)	110 mm Shoe	18	No.	291.71	Rupees Two Hundred Ninety One and Seventy One Paisas Only	Each	5251.00
69	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hardwood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.						
a)	110 mm	171	No.	207.27	Rupees Two Hundred Seven and Twenty Seven Paisas Only	Each	35443.00
70	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.	18	No.	122.19	Rupees One Hundred Twenty Two and Nineteen Paisas Only	Each	2199.00
Total							
Sub-Head : Finishing							
71	12 mm cement plaster of mix :						
a)	1:6 (1 cement: 6 fine sand)	1145	Sqm	178.19	Rupees One Hundred Seventy Eight and Nineteen Paisas Only	One Square Metre	204028.00
72	15 mm cement plaster on the rough side of single or half brick/laterite wall of mix :						
a)	1:4 (1 cement: 4 fine sand)	125	Sqm	223.20	Rupees Two Hundred Twenty Three and Twenty Paisas Only	One Square Metre	27900.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
b)	1:6 (1 cement: 6 fine sand)	4794	Sqm	206.93	Rupees Two Hundred Six and Ninety Three Paisas Only	One Square Metre	992022.00
73	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.						
a)	20 mm cement plaster	513	Sqm	362.20	Rupees Three Hundred Sixty Two and Twenty Paisas Only	One Square Metre	185809.00
74	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	2485	Sqm	294.36	Rupees Two Hundred Ninety Four and Thirty Six Paisas Only	One Square Metre	731485.00
75	Neat cement punning	513	Sqm	43.99	Rupees Forty Three and Ninety Nine Paisas Only	One Square Metre	22567.00
76	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	800	units	37.40	Rupees Thirty Seven and Forty Paisas Only	Per 50 kg bag of cement used in the mix	29920.00
77	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	621	Sqm	39.01	Rupees Thirty Nine and One Paisa Only	One Square Metre	24225.00
78	White washing with lime to give an even shade:						
a)	New work (three or more coats)	1117	Sqm	15.39	Rupees Fifteen and Thirty Nine Paisas Only	One Square Metre	17191.00
79	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.						
a)	Two or more coats on new work.	3949	Sqm	55.04	Rupees Fifty Five and Four Paisas Only	One Square Metre	217353.00
80	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :						
a)	Water thinnable cement primer.	13163	Sqm	36.29	Rupees Thirty Six and Twenty Nine Paisas Only	One Square Metre	477685.00
81	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
a)	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	3728	Sqm	100.06	Rupees One Hundred and Six Paisas Only	One Square Metre	373024.00
82	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:						
a)	Two or more coats on new work.	9214	Sqm	82.03	Rupees Eighty Two and Three Paisas Only	One Square Metre	755824.00
83	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :						
a)	Two or more coats on new work.	4257	Sqm	74.04	Rupees Seventy Four and Four Paisas Only	One Square Metre	315188.00
	Total						
Sub-Head : Sanitary Installations							
84	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 :						
a)	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	18	No.	4472.01	Rupees Four Thousand Four Hundred Seventy Two and One Paisa Only	Each	80496.00
85	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :						
a)	W.C. pan with ISI marked white solid plastic seat and lid	16	No.	4312.88	Rupees Four Thousand Three Hundred Twelve and Eighty Eight Paisas Only	Each	69006.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
86	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 :						
a)	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	27	No.	2078.79	Rupees Two Thousand Seventy Eight and Seventy Nine Paisas Only	Each	56127.00
b)	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.	4	No.	1838.36	Rupees One Thousand Eight Hundred Thirty Eight and Thirty Six Paisas Only	Each	7353.00
87	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :						
a)	Kitchen sink with drain board						
(i)	510x1040 mm bowl depth 225mm.	2	No.	6861.06	Rupees Six Thousand Eight Hundred Sixty One and Six Paisas Only	Each	13722.00
88	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	2	No.	1008.18	Rupees One Thousand Eight and Eighteen Paisas Only	Each	2016.00
89	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm or 340x410x265mm sizes respectively.	11	No.	985.41	Rupees Nine Hundred Eighty Five and Forty One Paisas Only	Each	10840.00
90	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
a)	Semi rigid pipe						
(i)	32 mm dia	44	No.	59.49	Rupees Fifty Nine and Forty Nine Paisas Only	Each	2618.00
91	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	42	No.	1092.98	Rupees One Thousand Ninety Two and Ninety Eight Paisas Only	Each	45905.00
92	Providing and fixing toilet paper holder :						
a)	C.P. brass	2	No.	329.09	Rupees Three Hundred Twenty Nine and Nine Paisas Only	Each	658.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
93	Cutting chases in brick/laterite masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :						
a)	100 mm dia.	9	m	418.31	Rupees Four Hundred Eighteen and Thirty One Paisas Only	One Running Metre	3765.00
b)	75 mm dia.	9	m	298.94	Rupees Two Hundred Ninety Eight and Ninety Four Paisas Only	One Running Metre	2690.00
94	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing& fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	2	No.	10208.64	Rupees Ten Thousand Two Hundred Eight and Sixty Four Paisas Only	Each	20417.00
95	Providing and fixing in position PVC soil waste and vent pipe with sockets (working pressure 4kg/sqcm conforming to IS 4985-1988 including jointing with solvent cement etc. complete.						
a)	110 mm dia	122	Mtr	250.00	Rupees Two Hundred Fifty Only	One Mtr	30500.00
				LMR			
b)	75 mm dia	204	Mtr	200.00	Rupees Two Hundred Only	One Mtr	40800.00
				LMR			
96	Providing and fixing unplasticised rigid PVC fittings/accessories of pressure class 4kg/sqcm including jointing the pipe with solvent cement etc. complete :-						
a)	Door bend of required degree						
(i)	110 mm or nearest dia	10	Nos.	190.00	Rupees One Hundred Ninety Only	Each	1900.00
				LMR			
(ii)	75 mm or nearest dia	12	Nos.	160.00	Rupees One Hundred Sixty Only	Each	1920.00
				LMR			
b)	"T" junction with access door						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
(i)	110 x110 x110 mm	10	Nos.	220.00	Rupees Two Hundred Twenty Only	Each	2200.00
				LMR			
(ii)	75x75x75 mm	13	Nos.	200.00	Rupees Two Hundred Only	Each	2600.00
c)	Plain bend			LMR			
(i)	110 mm or nearest dia	10	Nos.	170.00	Rupees One Hundred Seventy Only	Each	1700.00
				LMR			
(ii)	75 mm or nearest dia	13	Nos.	140.00	Rupees One Hundred Forty Only	Each	1820.00
d)	Terminal guard			LMR			
(i)	110 mm	10	Nos.	105.00	Rupees One Hundred Five Only	Each	1050.00
				LMR			
(ii)	75 mm	14	Nos.	85.00	Rupees Eighty Five Only	Each	1190.00
				LMR			
97	Providing and fixing PVC floor trap of self cleansing design with PVC screwed down or hinged grating with or with-out vent arm complete including cost of cutting and making good the walls and floors.						
	100 mm inlet and 75 mm outlet.	75	Nos.	420.00	Rupees Four Hundred Twenty Only	Each	31500.00
				LMR			
98	Providing and fixing on wall face unplasticised PVC pipe clips of approved design to unplasticised rigid PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with MS screws of required length including cutting brick work and fixing in cemet mortar 1:4 (1cement : 4coarse sand) and making good the wall etc. complete.						
a)	110mm dia.	25	Nos.	207.27	Rupees Two Hundred Seven and Twenty Seven Paisas Only	Each	5182.00
b)	75 mm dia	25	Nos.	191.01	Rupees One Hundred Ninety One and One Paisa Only	Each	4775.00
	Total						
	Sub-Head : Water Supply						
99	Providing and fixing PVC pipes of pressure class of 10kg/sqcm complete fittings and clamps including cutting and making good the walls etc complete (Internal work)						
a)	40 mm outer dia.	240	Mtr	135.00	Rupees One Hundred Thirty Five Only	One Mtr	32400.00
				LMR			
b)	32 mm outer dia	510	Mtr	103.00	Rupees One Hundred Three Only	One Mtr	52530.00
				LMR			

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
c)	25 mm outer dia	87	Mtr	83.00	Rupees Eighty Three Only	One Mtr	7221.00
				LMR			
d)	20 mm outer dia	228	Mtr	73.00	Rupees Seventy Three Only	One Mtr	16644.00
				LMR			
100	Providing and fixing rigid unplasticised PVC pipe (pressure class of 10Kg/Sq.cm) complete with fittings and clamps, including trenching and refilling etc. Complete 40mm outer dia.	400	Mtrs	185.00	Rupees One Hundred Eighty Five Only	One Rmt	74000
				LMR			
101	Providing and fixing unplasticised PVC connection pipe with brass unions						
a)	30 cm length						
(i)	15 mm nominal bore	80	No.	55.99	Rupees Fifty Five and Ninety Nine Paisas Only	Each	4479.00
b)	45 cm length						
(i)	15 mm nominal bore	42	No.	65.21	Rupees Sixty Five and Twenty One Paisas Only	Each	2739.00
102	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :						
b)	150 mm diameter	6	No.	77.83	Rupees Seventy Seven and Eighty Three Paisas Only	Each	467.00
103	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)						
a)	32 mm nominal	4	No.	237.74	Rupees Two Hundred Thirty Seven and Seventy Four Paisas Only	Each	951.00
b)	40 mm nominal bore	3	No.	278.39	Rupees Two Hundred Seventy Eight and Thirty Nine Paisas Only	Each	835.00
104	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	35000	Ltr	5.58	Rupees Five and Fifty Eight Paisas Only	One Litre	195300.00
105	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931						
a)	15 mm nominal bore.	12	No.	414.93	Rupees Four Hundred Fourteen and Ninety Three Paisas Only	Each	4979.00
106	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810gms.						
a)	15 mm nominal bore.	18	No.	463.68	Rupees Four Hundred Sixty Three and Sixty Eight Paisas Only	Each	8346.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
107	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms.						
a)	15 mm nominal bore	12	No.	506.10	Rupees Five Hundred Six and Ten Paisas Only	Each	6073.00
108	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.						
a)	15 mm nominal bore.	38	No.	502.04	Rupees Five Hundred Two and Four Paisas Only	Each	19078.00
109	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore						
a)	15mm nominal bore	44	No.	519.02	Rupees Five Hundred Nineteen and Two Paisas Only	Each	22837.00
110	Cutting holes up to 15x15cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.						
		10	No.	230.70	Rupees Two Hundred Thirty and Seventy Paisas Only	Each	2307.00
	Total						
Sub-Head : Drainage							
111	Providing and fixing unplasticised Rigid PVC pipes conforming to IS :13592, Type A including jointing with seal ring conforming to IS :5382 with Single socketed pipes. a) 110 mm outer dia.						
		460	mtr	244.91	Rupees Two Hundred Forty Four and Ninety One Paisas Only	One mtr	112659.00
112	Supplying and fixing PVC plain Tee 100 mm diameter in septic tank with cement mortar 1:3 (1cement : 3 fine sand) and finishing smooth.						
		44	No	266.06	Rupees Two Hundred Sixty Six and Six Paisas Only	One No	11707.00
113	Providing and laying cement concrete 1:5:10 (1cement: 5 coarse sand : 10 graded stone aggregate 40mm nominal size) all round PVC pipe including bed concrete as per standard design a) 100mm diameter P V C pipe						
		460	mtr	811.00	Rupees Eight Hundred Eleven Only	One mtr	373060.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
114	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 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 :						
a)	150 x 100 mm size P type.						
(i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	18	No.	1752.01	Rupees One Thousand Seven Hundred Fifty Two and One Paisa Only	Each	31536.00
115	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 : 2coarse 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 (1cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :						
a)	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) :						
(i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	26	No.	10009.82	Rupees Ten Thousand Nine and Eighty Two Paisas Only	Each	260255.00
116	Extra for depth for manholes						
a)	Size 90x80 cm						
(i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.6	m	6446.49	Rupees Six Thousand Four Hundred Forty Six and Forty Nine Paisas Only	One Running Metre	23207.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
117	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :						
b)	With 20 mm diameter round bar	40	No.	290.22	Rupees Two Hundred Ninety and Twenty Two Paisas Only	Each	11609.00
118	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5kg.	20	No.	253.38	Rupees Two Hundred Fifty Three and Thirty Eight Paisas Only	Each	5068.00
119	Supplying and fixing CI cover with frame for sump, septic tank, manholes etc.455X 610mm rectangular CI cover (light duty), weight of cover and frame not to be less than 38kg (weight of cover 23kg and frame 23kg)	8	Nos.	1800.00	Rupees One Thousand Eight Hundred Only	Each	14400.00
				LMR			
120	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :						
a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	No.	4599.10	Rupees Four Thousand Five Hundred Ninety Nine and Ten Paisas Only	Each	45991.00
121	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.						
a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4	No.	20105.07	Rupees Twenty Thousand One Hundred Five and Seven Paisas Only	Each	80420.00
122	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.	4	No.	2264.91	Rupees Two Thousand Two Hundred Sixty Four and Ninety One Paisas Only	Each	9060.00
	Total						
Sub-Head : Aluminium Work							

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
123	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) :						
a)	For fixed portion						
(i)	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	462	Kg	328.88	Rupees Three Hundred Twenty Eight and Eighty Eight Paisas Only	One Kilogram	151943.00
b)	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).						
(i)	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1191	Kg	393.28	Rupees Three Hundred Ninety Three and Twenty Eight Paisas Only	One Kilogram	468396.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
124	Providing and fixing 12mm 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.						
a)	Pre-laminated particle board with decorative lamination on both sides.	5	Sqm	1155.53	Rupees One Thousand One Hundred Fifty Five and Fifty Three Paisas Only	One Square Metre	5778.00
125	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):						
a)	With float glass panes of 4.0 mm thickness	186	Sqm	891.11	Rupees Eight Hundred Ninety One and Eleven Paise Only	One Square Metre	165746.00
b)	With float glass panes of 5.00 mm thickness	24	Sqm	1129.05	Rupees One Thousand One Hundred Twenty Nine and Five Paisas Only	One Square Metre	27097.00
c)	With toughened glass panes of 12 mm thickness	36.4	Sqm	2828.32	Rupees Two Thousand Eight Hundred Twenty Eight and Thirty Two Paisas Only	One Square Metre	102951.00
126	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 doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing 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.						
a)	With stainless steel cover plate minimum 1.25 mm thickness.	4	No.	2041.28	Rupees Two Thousand Forty One and Twenty Eight Paisas Only	Each	8165.00

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
127	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.						
a)	255 X 19 mm	212	No.	227.17	Rupees Two Hundred Twenty Seven and Seventeen Paisas Only	Each	48160.00
128	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	47	No.	1187.54	Rupees One Thousand One Hundred Eighty Seven and Fifty Four Paisas Only	Each	55814.00
129	Providing fabricating supplying and fixing in position structural glazing to external face of the building straight in plan with openable pannels at required locations as per drawing, required hinges special sections & hardware, consisting main pannel work of verticals & horizontal made out of specially designed extruded 38 X 63mm anodised aluminum asections, anchore to R.C.C. elements through adequately designed Galvenised MS clamps, brackets using 5mm thick one way reflective glass using structural and weather silicon sealant of approved grade. Material used. :- Mullian section 63X38mm, 2.50 Kg. for 12'0" 1.20mm thick Transom section 63mm x 38mm (2.50 Kg. for 12') Specer tape silicon sealant, SSG 4000 Ultra galazed / 995 Dow croning, Siliproof / 789, Glass 5.00mm thick one way reflective of Saint Gobain or equivalant in blue, green or bronze colour. (All aluminum sections should be 40 miron powder coated sections)	1293	Sqm	4613.00	Rupees Four Thousand Six Hundred Thirteen Only	One Square Metre	5964609.00
				LMR			

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
130	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).	72	Sqm	4714.38	Rupees Four Thousand Seven Hundred Fourteen and Thirty Eight Paisas Only	One Square Metre	339435.00
131	Designing, Providing, fabricating, installing, of aluminium composite pannel of exterior grade with approved make of ACP - 4mm thick (0.5mm thick aluminium sheet on top and bottom sandwiched with 3mm thick core material of anti-toxic low density polyethylene)in any shape like round, bending, louvers etc. in combination with solid and metallic colour panels, PVDF coating by using pre-assembled extruded aluminium sections / brackets and aluminium composite panel to with stand design wind pressure of 100 kg/sqm (Testing pressure shall be 1.5 times of the design wind pressure of 100 kg/ Sqm) conforming to IS 875-Part 3. Skin material / aluminium coil shall be manufactured by processor adopting Direct casting method to ensure that the skin aluminium will withstand the specified compressive strength.						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
	The system shall be designed to accommodate thermal movement of the aluminium framing system including supporting arrangements, fastening devices and to accommodate horizontal building movement of maximum 10mm per bay and vertical movement 20mm between floors and conforming that no aluminium members shall be visible from outside. the system shall be designed as per design wind pressure with self - bearing modular elements of floor to floor height, with approved make EPDM gaskets, backer rod, sealent, supporting arrangements (i.e. resistance to design wind pressure, seperator gaskets for bimetallic corrosion, built-in-adjustability for thermal movement,thermal barrier, etc. as described elsewhere in the technical specification and BOQ description.Make: ALUKBOND/EUROBOND/ALSTRONG.	400	Sqm	3409.00		One Square Metre	1363600.00
				LMR			
	Total						

Sl.No.	Description of Item	Quantity		Rate (Rs)	Rate in words	Unit	Amount(Rs)
Sub-Head : Water Proofing							
132	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/ltr and viscosity 70 -160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :						
a)	3 mm thick	130	Sqm	527.87	Rupees Five Hundred Twenty Seven and Eighty Seven Paisas Only	One Square Metre	68623.00
	Total						
SUB TOTAL(Part A)							165675891