

**UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM**

**TENDER SCHEDULE FOR THE CONSTRUCTION OF SECOND AND THIRD FLOOR OF THE GOLDEN JUBILEE LIBRARY
BUILDING AT KARIAVATTOM CAMPUS**

**PART -I
APPENDIX - A - SECOND FLOOR**

Date of tender- 29-10-2013

Time of completion- 12 months

Item	Quantity		Description	Rate		Rate in words	Amount
1	20	M ³	Dismantling clearing away and carefully stacking materials useful for reuse any thickness of wall of bricks in cement mortar including disposal of debris with in a distance of 150 m etc and stacking available material in nearby site	M ³	694.00	Rs. Six hundred and Ninety four	13880.00
2	15	M ³	Demolishing concrete in cement mortar and clearing away the debris with in a distance of 150 m	M ³	1301.00	Rs. One thousand three hundred and one	19515.00
3		LS	Dismantling the existing roofing sheet and roof members and stacking materials as per departmental	LS			20000.00
4	40000	dm ³	Vibrated R.C.C 1:2:4 using 20mm broken stone for column including all form work watering curing etc complete. but excluding cost of reinforcement for II nd floor(using manufactured sand)	10 dm ³	163.66	Rs. One hundred sixty three and Ps. Sixty six only	654640.00
5	75000	dm ³	Vibrated R.C.C 1:2:4 using 20mm broken stone for roof slab including all form work watering curing etc complete. but excluding cost of reinforcement for II nd floor (using manufactured sand)	10dm ³	148.94	Rs. One hundred and Forty eight & Ps. Ninety four only	1117050.00
6	80000	dm ³	Vibrated R.C.C 1:2:4 using 20mm broken stone for beam, lintel, sunshade, stair case etc complete but excluding cost of reinforcement for II nd floor(using manufactured sand)	10 dm ³	155.86	Rs. One hundred and fifty five & Ps. Eighty six only	1246880.00
7	250	Qtl	Providing reinforcement for R.C.C works bent tied and placed in position using tor steel.	Qtl	7558.00	Rs. Seven thousand five hundred and fifty eight	1889500.00

8	140	M ³	Cement concrete blocks work in cement motor 1:6 for super structure using solid cement concrete bricks of size 40x20x15 cm for II nd floor including all scaffolding charges watering curing etc complete.	M ³	4911.00	Rs. Four thosuand nine hundred and eleven	687540.00
9	600	dm ³	Pincoda wood planed and framed work for frame of doors as per the drawings and instructions of Engineer in charge inclusive of all labour and material charges etc. complete .	10dm ³	1123.86	Rs. One thousand one hundred and twenty three and Ps. Eighty six only	67431.60
10	3000	dm ²	Supplying and fixing Pincoda wood fully paneled shutters to suit the door frame etc complete as per drawing and departmental direction including charges for fixing all fittings but excluding cost of fittings.	10 dm ²	524.83	Rs. Five hundred and twenty four& Ps. Eighty three only	157449.00
11	25	Kg	Supplying and fixing M.S flat iron hold fast using 32X6 mm flat iron bent to suitable size for doors with necessary iron screws etc. complete.	Qtl	8359.00	Rs. Eight thousand three hundred and fifty nine	2090.00
12	150	m ²	Supplying ,fabricating and fixing M.S windows and ventilators using 20x19x2mm Z section for outer frame 20x19x2 mm I or J section for middle ,using 4 mm thick plain glass shutter ,9 mm thick aluminum beading with rubber beading 12 mm square rod at 10cm C/C. one number glazing bar fixed horizontally for each shutter. box hinges, wind stays, handle etc complete including painting with zinc rich primer.	m ²	3898.00	Rs. Three thousand eight hundred and ninety eight only	584700.00
13	40	Nos.	Supplying and fixing 100mm Anodized Aluminum butt hinges with necessary steel screws.	10Nos.	358.00	Rs. Three hundred and fifty eight	1432.00
14	10	Nos.	Supplying and fixing 200mm Aluminum aldrep with necessary steel screws.	10Nos	1573.00	Rs. One thousand five hundred and seventy three	1573.00
15	20	Nos	Supplying and fixing 200mm Aluminum tower bolt with necessary steel screws.	10Nos.	514.00	Rs. Five hundred and Fourteen	1028.00
16	10	Nos.	Supplying 150 mm Anodized Aluminum tower bolt with necessary steel screws.	10Nos	460.00	Rs. Four hundred and sixty	460.00

17	10	Nos	Supplying and fixing 175 mm Anodized Aluminum door handle with necessary steel screws.	10Nos.	573.00	Rs. Five hundred and seventy three	573.00
18	700	m ²	Chipping and removing old cement plaster from the floor and removing the debris 150m outside the area	10m ²	109.00	Rs. One hundred and nine	7630.00
19	35000	dm ³	Cement concrete 1:3:6 using 12mm broken stone over the existing floor as leveling course 5cm average thickness including curing.	10dm ³	54.29	Rs. Fifty four & Ps. Twenty nine	190015.00
20	1400	m ²	Plastering with cement motor 1:4, 12mm thick one coat (using river sand)	10m ²	2191.00	Rs. Two thousand one hundred and Ninety one	306740.00
21	1000	m ²	Plastering with cement motor 1:3, 9mm thick one coat(using river sand)	10m ²	1872.00	Rs. One thousand Eight hundred and seventy two	187200.00
22	18	m ³	Ornamental work in the brick parapet with three grooves of brick work in cement motor 1:4 as special type architectural work including plastering with cement motor 1:4 10mm thick as per the direction of dept: Authorities including cost of materials and labour charges.	m ³	6776.00	Rs. Six thousand seven hundred and seventy six	121968.00
23	15	m	Providing teak wood hand rails of 70 mm bottom and 50mm at top having depth 120 mm and making with required shapes as directed by the dept: Authorities and the same is fixed with the balusters of 20mm MS square rods at the height of 65cm an interval of 15cm centre to centre welded with 40mm into 6mm MS flat at top, bottom and baluster welded with 8mm dia MS rods in bit in the same is fixed to the hand rails by means of screws and the whole is fixed to the staircase with cement concrete including varnishing with varnish two coats and the balusters and flat painted with synthetic enamel paint two coats over a priming coat of iron primer etc complete.	m	3011.00	Rs. Three thousand and eleven	45165.00
24	700	m ²	Flooring with joint free vitrified ceramic floor tiles (60 x60 cm) over one coat cement plaster 1:3, 9mm thick etc complete.	m ²	1233.00	Rs. One thousand two hundred and thirty three	863100.00

25	65	m ²	Flooring with ceramic floor tiles with best glazed coloured tile with 12 mm thick cement mortar 1:3, and pointing coloured cement including all cost conveyance and labour etc complete.	m ²	815.00	Rs. Eight hundred & fifteen	52975.00
26	100	m ²	Dadoing walls and floor with colored glazed tiles 7.5 mm thick or nearest size in cement motor 1:3, 12mm thick and pointing colored cement etc complete.	m ²	1441.00	Rs. One thousand four hundred and forty one	144100.00
27	1000	m ²	White washing two coats to the under side of slab, sunshade etc after cleaning the surface etc complete.	10m ²	110.00	Rs. One hundred and ten	11000.00
28	482	m ²	Painting with synthetic enamel paint two coats (over a coat of iron zinc primer already done) for steel windows etc complete.	10m ²	635.00	Rs. Six hundred and thirty five	30607.00
29	1000	m ²	Painting with Anti fungal / weather proof External Emulsion paint (Apex or Exel) two coat to new surface etc complete including priming coat	10m ²	1402.00	Rs. One thousand four hundred and two	140200.00
30	200	m ²	Painting with synthetic enamel paint of approved quality and color two coat over a priming coat of wood primer rubbing with sand paper and cleaning the surface etc complete.	10m ²	1078.00	Rs. One thousand and seventy eight	21560.00
31	1000	m ²	Painting two coat with ready mixed plastic emulsion paint including priming coat etc complete.	10m ²	838.00	Rs. Eight hundred and thirty eight	83800.00
32	7	M ²	Supplying & fixing PVC door of size 75x210cm with door frame of size 40x46x1mm hollow section with shutter frame of size 20x40x2mm hollow section (two vertical and three horizontal) with PVC shutter panel of size 17x2x1mm hollow section with necessary steel screws including all labour charges for fixing etc. complete.	M ²	2875.00	Rs. Two thousand eight hundred and seventy five	20125.00

33	20000	dm ²	Providing weld mesh shutter to the existing steel windows with 20x5mm MS flats around and an intermediate horizontal or same size on the inner face and 24x35x12gm welded to the flat over with the same flat on outer face of each shutters the same is fixed to the existing steel windows with the four Nos. special make hinges weld at the frame for hinges and welded to the frame for having the shutters and with the necessary locking arrangements as specified by the deptl. authorities and cleaning the surface thoroughly and painted with one coat zinchromate primer including all cost of material and labour charges etc. complete.	10dm ²	72.40	Rs. Seventy two and Ps. Forty Only	144800.00
34	100	m2	Supplying fabricating and fixing aluminum powder coated partition using section of size 100x44.50x1.85mm (9246 @ 1.504 kg/m0 for bottom horizontal frame and 62.50x37.1x1.50mm (9238 @ 0.855kg/m) for all-round frames vertical and horizontal except bottom frame and 62.50x37.10x1.50mm (9237 @ 0.905kg/m) for intermediate frames verticals and horizontals and providing 12mm thick prelaminated sheet for bottom panel and top and 5.50mm thick plain glass for middle panels fixed with glazing clip of size 19.70x17.60x0.90mm (4682 @ 0.113kg/m) on both side including 'L' angles at corners and steel screws, rubber beading and all cost of materials labour charges etc. complete	m2	2571.00	Rs. Two thousand five hundred and seventy one only	257100.00

35	10	m ²	Supplying fabricating and fixing aluminum powder coated door shutter using section of size 100x44.50x1.85mm for bottom horizontal frame and 50x44.5x1.50mm for vertical and 50x44.5x1.50mm for top horizontal frame 50x44.50x1.50mm for middle frames and providing 12mm thick prelaminated sheet for bottom panel and 5.50mm thick plain glass for top panels fixed with glazing clip of size 19.70x17.60x0.90mm on both side and all fittings such as 20 nos ,pivot ,2 nos door handle ,1 no door lock and 1 no door closer etc including 'L' angles at corners and steel screws, rubber beading and all cost of materials labour charges etc.	m2	5083.00	Rs. Five thousand eighty three	50830.00
36	510	m ²	Supplying and fixing false ceiling using with aluminum powder coated 'L' angle of size 25.40x25.40x1.10mm (1767) for around frame and 25x25x1.27mm (3135) T section for intermediate frames on both direction at 60mm c/c hanging with GI wire and 'L' angle in correct line and level and providing 610x610x4mm 'E' board classic tiles to the frames including all cost materials, labour charges etc and hire and labour for scaffolding etc. complete	m ²	999.00	Rs.Nine hundred & ninety nine	509490.00
37	10	Nos.	Supplying and fixing 65mm (7 lever) best quality pad lock with duplicate keys.	E	265.00	Rs. Two hundred and sixty five	2650.00
			TOTAL				9659446.60
			APPENDIX - B - Third Floor				
1	40000	dm ³	vibrated R.C.C 1:2:4 using 20mm broken stone for column including all form work watering curing etc	10dm ³	170.18	Rs. One hundred and seventy & Ps. Eighteen only	680720.00
2	75000	dm ³	vibrated R.C.C 1:2:4 using 20mm broken stone for roof slab including all form work watering curing etc complete.but excluding cost of reinforcement for IIIrd floor	10dm ³	154.72	Rs. One hundred and fifty four & Ps. Seventy two only	1160400.00

3	80000	dm ³	vibrated R.C.C 1:2:4 using 20mm broken stone for beam,lintel,sunshade, stair cause etc complete. but excluding cost of reinforcement for II nd floor.	10dm ³	162.02	Rs. One hundred and sixty two & Ps. Two only	1296160.00
4	250	Qtl	Providing reinforcement for R.C.C works bent tied and placed in position using for steel.	Qtl	7692.00	Rs. Seven thousand six hundred and ninety two	1923000.00
5	140	M ³	cement concrete blocks work in cement motor 1:6 for super structure using solid cement concrete bricks of size 40x20x15 cm for II nd floor including all scaffolding charges watering curing etc complete for.	M ³	5029.00	Rs. Five thousand and twenty nine	704060.00
6	600	dm ³	Pincoda wood planed and framed work for frame of doors as per the drawings and instructions of Engineer in charge inclusive of all labour and material charges etc. complete .	10dm ³	1123.86	Rs. One thousand one hundred and twenty three and Ps. Eighty six only	67432.00
7	3000	dm ²	Supplying and fixing Pincoda wood fully paneled shutters to suit the door frame etc complete as per drawing and departmental direction including charges for fixing all fittings but excluding cost of fittings.	10dm ²	524.83	Rs. Five hundred and twenty four & Ps. Eighty three only	157449.00
8	25	Kg	Supplying and fixing M.S flat iron hold fast using 32X6 mm flat iron bent to suitable size for doors with necessary iron screws etc. complete.	Qtl	8359.00	Rs. Eight thousand three hundred and fifty nine	2090.00
9	180	m ²	Supplying ,fabricating and fixing M.S windows and ventilators using 20x19x2mm Z section for outer frame 20x19x2 mm I or J section for middle ,using 4 mm thick plain glass shutter ,9 mm thick aluminum beading with rubber beading 12 mm square rod at 10cm C/C. one number glazing bar fixed horizontally for each shutter. box hinges, wind stays, handle etc complete including painting with zinc rich primer.	m ²	3898.00	Rs. Three thousand eight hundred and ninety eight only	701640.00
10	20	Nos.	Supplying and fixing 100mm Anodised Aluminum butt hinges with necessary steel screws.	10 Nos.	358.00	Rs. Three hundred and fifty eight	716.00
11	10	Nos.	Supplying 200 mm Anodized Aluminum tower bolt with necessary screws.	10 Nos.	514.00	Rs. Five hundred and fourteen	514.00

12	20	Nos.	Supplying and fixing 200mm Aluminum aldop with necessary steel screws.	10 Nos.	1573.00	Rs. One thousand five hundred and seventy three	3146.00
13	10	Nos.	Supplying 150 mm Anodized Aluminum tower bolt with necessary screws.	10 Nos.	460.00	Rs. Four hundred and sixty	460.00
14	10	Nos.	Supplying and fixing 175 mm Anodized Aluminum door handle with necessary steel screws.	10 Nos.	573.00	Rs. Five hundred and seventy three	573.00
15	1400	M ²	Plastering with cement motor 1:4, 12mm thick one coat.	M ²	2191.00	Rs. Two thousand one hundred and ninety one	306740.00
16	1000	M ²	Plastering with cement motor 1:3, 9mm thick one coat.	10M ²	1872.00	Rs. One thousand eight hundred and seventy two	187200.00
17	1000	M ²	Plastering with cement motor 1:3, 12mm thick two coat including adding necessary water proofing compound etc.complete.	10M ²	2744.00	Rs. Two thousand seven hundred and forty four only	274400.00
18	18	m ³	Ornamental work in the brick parapet with three groves of brick work in cement motor 1:4 as special type architectural work including plastering with cement motor 1:4 10mm thick as per the direction of dept: Authorities including cost of materials and labour charges.	m ³	6859.00	Rs. Six thousand eight hundred and fifty nine only	123462.00
19	20	m	Providing teak wood hand rails of 70 mm bottom and 50mm at top having depth 120 mm and making with required shapes as directed by the dept: Authorities and the same is fixed with the balusters of 20mm MS square rods at the height of 65cm an interval of 15cm centre to centre welded with 40mm into 6mm MS flat at top, bottom and baluster welded with 8mm dia MS rods in bit in the same is fixed to the hand rails by means of screws and the whole is fixed to the staircase with cement concrete including varnishing with varnish two coats and the balusters and flat painted with synthetic enamel paint two coats over a priming coat of iron primer etc complete.	m	3011.00	Rs. Three thousand and eleven	60220.00

20	700	M ²	Flooring with joint free vitrified ceramic floor tiles (60 x60 cm) over one coat cement plaster 1:3, 9mm thick etc complete.	M ²	1233.00	Rs. One thousand two hundred and thirty three	863100.00
21	65	M ²	Flooring with ceramic floor tiles with best glazed colored tile with 12 mm thick cement mortar 1:3, and pointing colored cement including all cost conveyance	M ²	815.00	Rs. Eight hundred and fifteen	52975.00
22	100	M ²	Dadoing walls and floor with finishing colored tiles 7.5 mm thick or nearest size in cement motor 1:4 ,12mm thick and pointing colored cement etc complete.	M ²	1441.00	Rs. One Thousand four hundred and forty One Only	144100.00
23	1000	M ²	White washing two coats to the under side of slab ,sunshade etc after cleaning the surface etc complete.	10M ²	110.00	Rs. One hundred and ten	11000.00
24	450	M ²	Painting with synthetic enamel paint of approved quality and color two coat over a priming coat of iron primer for steel windows etc complete.	10m ²	635.00	Rs. Six hundred and thirty five	28575.00
25	1000	M ²	Painting with Anti fungal / weather proof External Emulsion paint (Apex or Exel) two coat to neat surface	10M ²	1402	Rs. One thousand four hundred and two	140200.00
26	1000	M ²	Painting two coat with ready mixed plastic emulsion paint including priming coat etc complete.	10m ²	838.00	Rs. Eight hundred and thirty eight	83800.00
27	200	M ²	Painting with synthetic enamel paint of approved quality and color two coat over priming coat of wood	10M ²	1078.00	Rs. One thousand and seventy eight	21560.00
28	10	Nos.	Supplying and fixing 65mm (7 lever) best quality pad lock with duplicate keys.	E	265.00	Rs. Two hundred and sixty five	2650.00
29	7	M ²	Supplying & fixing PVC door of size 75x210cm with door frame of size 40x46x1mm hollow section with shutter frame of size 20x40x2mm hollow section (two vertical and three horizontal) with PVC shutter panel of size 17x2x1mm hollow section with necessary steel screws including all labour charges for fixing etc. complete.	M ²	2875.00	Rs. Two thousand eight hundred and seventy five	20125.00

30	20000	dm ²	Providing weld mesh shutter to the existing steel windows with 20x5mm MS flats around and an intermediate horizontal or same size on the inner face and 24x35x12gm welded to the flat over with the same flat on outer face of each shutters the same is fixed to the existing steel windows with the four Nos. special make hinges weld at the frame for hinges and welded to the frame for having the shutters and with the necessary locking arrangements as specified by the deptl. authorities and cleaning the surface thoroughly and painted with one coat zinchromate primer including all cost of material and labour charges etc. complete.	10dm ²	72.40	Rs. Seventy two and Ps. Forty Only	144800.00
31	100	m ²	Supplying fabricating and fixing aluminum powder coated partition using section of size 100x44.50x1.85mm (9246 @ 1.504 kg/m ⁰ for bottom horizontal frame and 62.50x37.1x1.50mm (9238 @ 0.855kg/m) for all-round frames vertical and horizontal except bottom frame and 62.50x37.10x1.50mm (9237 @ 0.905kg/m) for intermediate frames verticals and horizontals and providing 12mm thick prelaminated sheet for bottom panel and top and 5.50mm thick plain glass for middle panels fixed with glazing clip of size 19.70x17.60x0.90mm (4682 @ 0.113kg/m) on both side including 'L' angles at corners and steel screws, rubber beading and all cost of materials labour charges etc. complete	m ²	2571.00	Rs Two thousand five hundred and seventy one only	257100.00

32	10	m ²	Supplying fabricating and fixing aluminum powder coated door shutter using section of size 100x44.50x1.85mm for bottom horizontal frame and 50x44.5x1.50mm for vertical and 50x44.5x1.50mm for top horizontal frame 50x44.50x1.50mm for middle frames and providing 12mm thick prelaminated sheet for bottom panel and 5.50mm thick plain glass for top panels fixed with glazing clip of size 19.70x17.60x0.90mm on both side and all fittings such as 20 nos ,pivot ,2 nos door handle ,1 no door lock and 1 no door closer etc including 'L' angles at corners and steel screws, rubber beading and all cost of materials labour charges etc	m ²	5083.00	Rs. Five thousand eighty three	50830.00
33	510	m ²	Supplying and fixing false ceiling using with aluminum powder coated 'L' angle of size 25.40x25.40x1.10mm (1767) for around frame and 25x25x1.27mm (3135) T section for intermediate frames on both direction at 60mm c/c hanging with GI wire and 'L' angle in correct line and level and providing 610x610x4mm 'E' board classic tiles to the frames including all cost materials, labour charges etc and hire and labour for scaffolding etc. complete	m ²	999.00	Rs.Nine hundred & ninety nine	509490.00
			TOTAL				9980687.00
			APPENDIX - C - HEAD ROOM (IVth Floor)				
1	13500	dm ³	Vibrated R.C.C 1:4:8 using 20 mm broken stone for dummy column including all form work watering curing etc. complete	10 dm ³	157.52	Rs. One hundred and fifty seven and Ps. Fifty two only	212652.00
2	3500	dm ³	vibrated R.C.C 1:2:4 using 20mm broken stone for column including all form work watering curing etc complete. but excluding cost of reinforcement for II nd floor.	10dm ³	176.71	Rs. One hundred and seventy six & Ps. Seventy one only	61848.50
3	2000	dm ³	Vibrated RCC for beam, lintel, sunshade, staircase etc. complete for 4th floor including all form work watering curing etc. complete.	10dm ³	168.17	Rs. One hundred and sixty eight & Ps. Seventeen only	33634.00

4	30	Qtl	Providing reinforcement for R.C.C works bent tied and placed in position using tor steel.	Qtl	7826.00	Rs. Seven thousand eight hundred	234780.00
5	10	M ³	Cement concrete block work in cement motor 1:6 for super structure using Ist class country bricks including all scaffolding charges watering curing etc complete for II nd floor.	M ³	5147.00	Rs. Five thousand one hundred and forty seven	51470.00
6	20	dm ³	Pincoda wood planed and framed work for frame of doors as per the drawings and instructions of Engineer in charge inclusive of all labour and material charges etc. complete .	10dm ³	1123.86	Rs. One thousand one hundred and twenty three and Ps. Eighty six only	2247.72
7	500	dm ²	Supplying and fixing Pincoda wood fully paneled shutters to suit the door frame etc complete as per drawing and departmental direction including charges for fixing all fittings but excluding cost of fittings.	10dm ²	524.83	Rs. Five hundred and twenty four & Ps. Eighty three only	26241.50
8	5	Kg	Supplying and fixing M.S flat iron hold fast using 32X6 mm flat iron bent to suitable size for doors with necessary iron screws etc. complete.	Qtl	8359.00	Rs. Eight thousand three hundred and fifty nine	418.00
9	10	Nos.	Supplying 100mm Anodized Aluminum but hinges with necessary screws.	10 Nos.	358.00	Rs. Three hundred and fifty eight	358.00
10	3	Nos.	Supplying 200 mm Anodized Aluminum tower bolt with necessary screws.	10 Nos.	514.00	Rs. Five hundred and fourteen	154.20
11	1	No.	Supplying 200 mm Aluminum aldop with necessary screws.	10 Nos.	1573.00	Rs. One thousand five hundred and seventy three	157.30
12	2	Nos.	Supplying and fixing 175 mm Anodized Aluminum door handle with necessary steel screws.	10 Nos.	573.00	Rs. Five hundred and seventy three	115.00
13	10	m ²	Supplying ,fabricating and fixing M.S windows and ventilators using 20x19x2mm Z section for outer frame 20x19x2 mm I or J section for middle ,using 4 mm thick plain glass shutter ,9 mm thick aluminum beading with rubber beading 12 mm square rod at 10cm C/C. one number glazing bar fixed horizontally for each shutter. box hinges, wind stays, handle etc complete including painting with zinc rich primer.	m ²	3898.00	Rs. Three thousand eight hundred and ninety eight only	38980.00

14	250	M ²	Plastering with cement mortar 1:4, 12mm thick one coat.	10M ²	2191.00	Rs. Two thousand one hundred and ninety one	54775.00
15	100	M ²	Plastering with cement motor 1:3, 9mm thick one coat.	10M ²	1872.00	Rs. One thousand eight hundred and seventy two	18720.00
16	25	M ²	Painting with synthetic enamel paint, 2 coat over a coat of iron primer, for steel windows etc. complete.	10M ²	635.00	Rs. Six hundred and thirty five	1587.50
17	100	M ²	Flooring with joint free vitrified ceramic floor tiles (60 x60 cm) over one coat cement plaster 1:3, 9mm thick etc complete.	M ²	1233.00	Rs. One thousand two hundred and thirty three	123300.00
18	200	M ²	Painting with Anti fungal / weather proof External Emulsion paint (Apex or Exel) two coat to neat surface etc complete.	10M ²	1402.00	Rs. One thousand four hundred and two	28040.00
19	200	M ²	Painting two coat with ready mixed plastic emulsion paint including priming coat etc complete.	10m ²	838.00	Rs. Eight hundred and thirty eight	16760.00
20	25	M ²	Painting with synthetic enamel paint, approved quality and color 2 coat over a coat of iron primer, rubbing with sand paper and cleaning the surface etc. complete.	10M ²	1078.00	Rs. One thousand and seventy eight	2695.00
21	1	No	Supplying 65mm (7 levers) best quality pad lock with duplicate keys	E	265.00	Rs. Two hundred and sixty five	265.00
22			Refixing the departmental roof members and re - fixing the same to the 4th floor including necessary G.I pipe if required etc complete.	LS			35000.00
23	250	M ²	Roofing with galvanized iron corrugated sheet 1mm thick or nearest available thickness with overlap of 150mm and end and GI hooks or crank bolt and nut including plane washers and bitumen washers etc.	10M ²	6718.00	Rs. Six thousand seven hundred and eighteen	167950.00
			TOTAL				1112148.72
			Appendix-D- Water Supply and Sanitary work				

1	6	Nos.	Supplying and fixing European type water closet (Earthenware white best Quality) with Por S trap with duroplastic seat cover and CP brass hinges with rubber buffers and pvc low level flushing cistern with cp angle valve fittings and brackets including cutting and making good the walls and floors.	E	3323.00	Rs. Three thousand three hundred and twenty three	19938.00
2	8	Nos.	Supplying fixing 550 x400mm or nearest size wash hand basin of white glazed earthenware (Indian make best quality) with the CI bracket painted white one central pillar tap, 1No 15mm pvc connector 1No.15mm cp angle valve rubber plug and cp brass waste 32mm standard pattern 32mm dia pvc waste including cutting and making good the walls etc.	E	2941.00	Rs. Two thousand nine hundred and forty one	23528.00
3	100	m	Supplying clamping & jointing 25mm PVC pipe (10 kgf/cm2) with fittings such as tees bends elbows coupling etc. including cutting and making good the walls etc complete etc.	m	81.00	Rs. Eighty one	8100.00
4	30	m	Supplying clamping & jointing 32mm PVC pipe (10 kgf/cm2) with fittings such as tees bends elbows coupling etc. including cutting and making good the walls etc complete etc.	M	108.00	Rs One hundred and eight only	3240.00
5	120	m	Supplying clamping & jointing 20mm PVC pipe (10 kgf/cm2) with fittings such as tees bends elbows coupling etc. including cutting and making good the walls etc complete etc.	m	65.00	Rs Sixty five Only	7800
6	80	M	Supply fixing and jointing with 75mm dia PVC pipe (4 kgf/cm2) including cutting masonry or concrete floor sun shade etc for waste line fixing the pipe to the walls with clamp and screws etc complete.	m	107.00	Rs. one hundred and seven one	8560.00
7	10 nos	E	Supplying and fixing 75 mm PVC door elbow	E	120.00	Rs. One hundred and twenty only	1200.00
8	10 Nos	E	Supplying and fixing 75 mm PVC elbow	E	78.00	Rs. Seventy eight Only	780.00
9	5 N0s	E	Supplying and fixing 75 mm PVC door tee	E	139.00	Rs One hundred and thirty nine only	695.00
10	10 nos	E	Supplying and fixing 75 mm PVC offset	E	86.00	Rs. Eighty six Only	860.00

11	100	m	Supply fixing and jointing with 110mm dia PVC pipe (4 kgf/cm ²) including cutting masonry or concrete floor sun shade etc for waste line fixing the pipe to the walls with clamp and screws etc complete.	M	224.00	Rs Two hundred and twenty four only	22400.00
12	10	Nos	Supplying and fixing 110 mm PVC door elbow	E	193.00	Rs. One hundred and ninety three only	1930.00
13	10	Nos	Supplying and fixing 110 mm PVC elbow	E	159.00	Rs One hundred and fifty nine only	1590.00
14	10	Nos	Supplying and fixing 110 mm PVC offset	E	143.00	Rs. One hundred and forty three only	1430.00
15	10	Nos	Supplying and fixing 110 mm PVC door tee	E	249.00	Rs Two hundred and forty nine only	2490.00
16	5	Nos	Supplying and fixing 110 mm PVC vent cowl	E	87.00	Rs. Eighty seven only	435.00
17		Ls	Dismantling the existing water tank carefully and fixing in the roof floor inclusive of all necessary fittings, labour charge and material charges etc complete	LS			10000.00
18	2000	Lr	Supplying and fixing PVC water tank of approved make and quality with all fittings	Lr	6.78	Rs. Six and Ps seventy Eight only	13560.00
19	2 Nos	E	Supplying and fixing 25 mm GM ball valve with polythene float	E	456.00	Rs. Four hundred and fifty six only	912.00
20	2	Nos	Supplying and fixing 25 mm GM full way wheel valve of approved make	E	581.00	Rs. Five hundred and eighty one only	1162.00
21	2	Nos	Supplying and fixing 32 mm GM full way wheel valve of approved make	E	1001.00	Rs One thousand and one only	2002.00
22	8	Nos	Supplying and fixing 15 mm CP long body tap	E	674.00	Rs. Six hundred and seventy four only	5392.00
23	6	Nos	Supplying and fixing 15 mm CP health facet with flexible hose, wall clip etc	E	618.00	Rs. Six hundred and eighteen only	3708.00
24	6	Nos	Supplying and fixing CP towel rod 600 mm or nearest available size of approved make	E	265.00	Rs. Two hundred and sixty five	1590.00
25	6	Nos	Supplying and fixing mirror with PVC frame alround 400mm or nearest available size	E	582.00	Rs. Five hundred and eighty two only	3492.00
26	8	Nos	Supplying and fixing 90 mm or nearest size PVC floor trap	E	235.00	Rs Two hundred and thirty five only	1880.00

27	8	nos	providing and fixing 110 mm or nearest size pvc gratings	E	60.00	Rs. Sixty Only	480.00
28	8	Nos	Supplying and fixing 20X 15 mm PN 16 PVC reducer socket	E	65.00	Rs. Sixty five only	520.00
			TOTAL				149674.00
			GRAND TOTAL- A+B+C+D				20901956.32
		ESTIMATED PAC - Rs.2,09,01,957/- (Rupees Two crore nine lakh One thousand nine hundred & fifty seven only)					
		I /We agreed to execute the work.					
		1. At the estimate rate.					
		2.percentage below the estimate rate.					
		3.percentage above the estimate rate.					
UNIVERSITY ENGINEER				CONTRACTOR.			

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