

**Construction of building for Administrative Block and Academic Block for College of Engineering,
Wadakkanchery
TENDER SCHEDULE**

Sl.No.	Quantity	Description	Unit	Rate	Amount
1	21100 m2	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of the area cleared (SH: 2.31)	100 m2	Rs.853.55 (Rs.Eight hundred and fifty three and paise fifty five)	1,80,099
2.a	49228 m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil (SH- 2.6.1)	m3	Rs.169.80 (Rs. One Hundred and sixty nine and paise eighty)	83,58,914
b	8675 m3	Do. Do. At 2nd depth : 1.5m to 3.00m	m3	Rs.234.35 (Rs.Two hundred and thirty four and paise thirty five)	20,32,986
c	8495m3	Do. Do. At 3rd depth 3.00 m to 4.5m	m3	Rs.298.90 (Rs.Two hundred and ninety eight and paise ninety)	25,39,156
d	55 m3	Do. Do. At 4th depth from 4.5m to 6.00m	m3	Rs.363.45 (Rs.Three hundred and sixty three and paise forty five)	19,990
e	55 m3	Do. Do. At 5th depth from 6.00m to 7.5m	m3	Rs.428.00 (Rs. Four hundred and twenty eight only)	23,540
f	55 m3	Do. Do.at 6th depth from 7.5 m to 9.00m	m3	Rs.492.55 (Rs.Four hundred and ninety two and paise fifty five)	27,090
g	55 m3	Do. Do. At 7th depth from 9.00m to 10.5m	m3	Rs.557.10 (Rs.five hundred and fifty seven and paise ten)	30,641

h	55 m3	Do. Do. At 8th depth from 10.5 m to 12.00m	m3	Rs.621.65 (Rs.Six hundred and twenty one and paise sixtyfive)	34,191
i	55 m3	Do. Do. At 9th depth from 12.00m to 13.5	m3	Rs.686.20 (Rs.Six hundred and eighty six and paie twenty)	37,741
j	55 m3	Do. Do. at 10th depth from 13.5 m to 15 m	m3	Rs.750.75 (Rs.seven hundred and fifty and paise seventy five)	41,291
3.a	55 m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth ,lead upto 50m and lift upto 1.5m,disposed earth to be levelled and neatly dressed Hard rock (requiring blasting) (SH- 2.7.2) at depth from 15.00m to 16.5m	m3	Rs.1,690.00 (Rs.One thousand six hundred and ninety only)	92,950
b	55 m3	Do. Do. At depth from 16.5 m to 18.00m	m3	Rs.1,805.40 (Rs.One thousand eight hundred and five and paise forty)	99,297
c	55 m3	Do.do at depth from 18.00m to 19.5m	m3	Rs.1,920.85 (Rs.One thousand nine hundred and twenty and paie eighty five)	1,05,647
4	10375 m3	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 back filling, getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil (SH: 2.8.1)	m3	Rs.172.00 (Rs. One hundred and seventy two only)	17,84,500
5	13400	Extra for every additional lift of 1.5m or part there of in excavation/banking excavated or stacked materials All kinds of soil (SH: 2.26.1)	m3	Rs.64.55 (Rs. Sixty four and paise fifty five)	8,64,970
6	4400 m3	Extra for every additional lift of 1.5m or part there of in excavation/banking excavated or stacked materials Ordinary rock (2.26.2)	m3	Rs.115.45 (Rs.One hundred and fifteen and paise forty five)	5,07,980

7	3218 cum	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. In hard rock (requiring blasting) (SH: 2.7.2)	m3	Rs.379.90 (Rs.Three hundred and seventy nine and paise ninety)	12,22,518
8	4360 m3	Filling available excavated earth (excluding rock) in yard in layers not exceeding 20cm in depth, consolidating each deposited layers by ramming and watering, with all lead and lift etc. complete as per direction of the Engineer-in-charge	m3	Rs.127.00 (Rs.One hundred and twenty seven only)	5,53,720
9	1210 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work upto plinth level 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) (SH: 4.1.8)	m3	Rs.6077.85 (Rs. Six thousand and seventy seven and paise eighty five)	73,54,199
10	400 m2	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 40mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth (SH: 4.17)	m2	Rs.654.10 (Rs.Six hundred and fifty four and paise Ten only)	2,61,640
11	874 m3	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 window sills, fillets sunken floor etc upto floor five level, excluding cost of centering, shuttering and finishing: Cement Concrete 1:3:6 (1 cement : 3 fine sand : 6 Graded stone aggregates 40mm nominal size) (SH: 4.2.7)	m3	Rs.6,441.50 (Rs. Six thousand four hundred forty one and paise fifty)	56,29,871
12	261 m3	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 20 mm nominal size) upto plinth level with Cement mortar 1:6 (1 cement : 6 coarse sand) (SH: 7.1.1)	m3	Rs.5042.00 (Rs.Five thousand and forty two only)	13,15,962

13	325 m3	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) etc using Cement mortar 1:6 (1 cement : 6 coarse sand) (SH: 7.2.1)	m3	Rs.5,929.80 (Rs.Five thousand nine hundred and twenty nine and paise eighty)	19,27,185
14	150 m3	Providing and laying in position specified grade of reinforced cement concrete 1:2:4 (1 cement; 2 Coarse sand; 4 20mm nominal size aggregate) excluding the cost of centering, shuttering, finishing for works upto plinth level (SH : 4.1.3) for drain, waste pit etc.	m3	Rs.8,034.70 (Rs. Eight thousand and thirty four and paise seventy)	12,05,205
15	104.7 m3	Providing and laying in position specified grade of reinforced cement concrete 1:1.5:3 (1- cement; 1.5- Coarse sand; 3- 20mm nominal size aggregate) excluding the cost of centering, shuttering, finishing for works upto plinth level (SH: 4.1.2)	m3	Rs.8,341.80 (Rs.Eight thousand three hundred and forty one and paise eighty)	8,73,386
16	5715.6cum	Providing and laying in position specified grade of reinforced cement concrete 1:1.5:3 (1- cement; 1.5- Coarse sand; 3- 20mm nominal size aggregate) excluding the cost of centering, shuttering, finishing for works upto five floor level (SH: 4.2.2)	m3	Rs9,318.20 (Rs.Nine thousand three hundred and eighteen and paise twenty)	5,32,59,104
17	1600cum	Providing and laying in position specified grade of reinforced cement concrete 1:1.5:3 (1- cement; 1.5- Coarse sand; 3- 20mm nominal size aggregate) excluding the cost of centering, shuttering, finishing for works above floor 5 level for each four floors or part thereof (SH: 4.2.2)	m3	9492.40 (Rs.Nine Thousand Four hundred and Ninety Two and Paise Forty Three)	1,51,87,840

18	3283.5m3	Providing and laying in position machine batched and machine mixed design M-25 grade concrete for reinforced cement concrete works,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 the direction of engineer in chargeNote:-Cement content considered in this item is @330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately (for all work upto plinth Level) (SH: 5.33.1) for columns, septic tank, water tank, sump etc	m3	Rs.8,844.20 (Rs. Eight thousand eight hundred and forty four and paise twenty)	2,90,39,931
19	58 sqm	Honey-comb brick work 10/11.4 cm thick with common burnt clay bricks of class designation 7.5 in superstructure above plinth level upto floor V level with cement mortar 1:4(1cement:4 Coarse sand) SH 6.23	sqm	Rs.316.45 (Rupees Three hundred and Sixteen and paise forty five)	18,354
20	1524 m2	Centering and shuttering including strutting,propping etc and removal of form for: Foundations,footings,bases of columns,etc for mass concrete (SH: 5.9.1)	sqm	Rs.214.95 (Rs. Two hundred and fourteen and paise ninety five)	3,27,584
21	8330 m2	Centering and shuttering including strutting,propping etc and removal of form for: Walls (any thickness) including attached pilasters, buttresses,plinth and string courses etc (SH: 5.9.2)	sqm	Rs.424.40 (Rs.Four hundred and twenty four and paise forty)	3,53,525
22	23150 m2	Centering and shuttering including strutting,propping etc and removal of form for: Lintels,beams,plinth beams,girders,bressumers and cantilevers (SH: 5.9.5)	sqm	Rs.386.40 (Rs. Three hundred and eighty six and paise forty)	89,45,160
23	13253 m2	Centering and shuttering including strutting,propping etc and removal of form for: Columns, Pillars, Piers Abutments, Posts and struts (SH: 5.9.6)	sqm	Rs.521.20 (Rs.Five hundred and twenty one and paise twenty)	69,07,464
24	22462 m2	Centering and shuttering including strutting,propping etc and removal of form for: Suspended floor, roofs, landings, balconies and access platform (SH: 5.9.3)	sqm	Rs.476.75 (Rs.Four hundred and seventy six and paise seventy five)	1,07,08,759

25	612 m2	Centering and shuttering including strutting,propping etc and removal of form for: Stairs (excluding landings) except spiral staircases (SH:5.9.7)	sqm	Rs.434.60 (Rs. Four hundred nd thirty four and paise sixty)	2,65,975
26	23200 m2	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of deshuttering and decentering at all levels, over a height of 3.5m for every additional height of 1 metre or part thereof suspended floors, roofs, landing beams, and balconies (Plan area to be measured) (SH: 5.11.1)	sqm	Rs.195.05 (Rs. One hundred and ninety five and paise five)	45,25,160
27	6762 m	Centering and shuttering including strutting,propping etc and removal of form for: Edges of slab and breaks in floors and walls under 20 cm wide (SH: 5.9.16.1)	sqm	Rss.125.80 (Rs.One hundred and twentyfive and paise eighty)	8,50,660
28	26 m3	Providing and laying cement concrete in retaining wall, return walls, wall (any thickness) including attached pilasters, columns, piers, abutments, pillars posts, truts, buttresses, string or lacing courses, parapets coping, bed blocks, anchor blocks, plain windows sills, filets sunken floor etc. excluding the cost of centering, shuttering and finishing: 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size) SH : 4.2.5 (for dummy column)	m3	Rs.8,597.08 (Rs.Eight thousand Five hundred and ninety seven and paise eight only)	2,23,524
29	17319 q	Steel reinforcement for RCC work including straightening ,cutting ,bending ,placing in position and binding all complete level-(Thermo-Mechanically-Treated bars)	q	Rs.7360.00 (Rs. Seven thousand three hundred and sixty only)	12,74,67,840
30	60 m3	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 30 x 20 x15 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compressive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc upto plinth level with all lead and lift and all as per specifications and direction of Engineer-in-charge	cum	Rs.5274.50 (Rs.fivce thousand two hundred and seventy four and paise fifty)	3,16,470

31	2426 cum	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 30 x 20 x15 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compressive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc upto FLOOR LEVEL FIVE with all lead and lift and all as per specifications and direction of Engineer-in-charge	cum	Rs.5,656.20 (Rs. Five thousand six hundred and fifty six and paise twenty)	1,37,21,941
32	1050	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 30 x 20 x15 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compressive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc above floor 5 level for each four floors or part thereof with all lead and lift and all as per specifications and direction of Engineer-in-charge	cum	Rs.5926.85 (Rs.Five thousand Nine hundred and twenty six and paise Eighty five)	62,23,193
33	45m3	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 40 x 20 x10 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compressive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc upto FLOOR LEVEL FIVE with all lead and lift and all as per specifications and direction of Engineer-in-charge	m3	Rs.5534.20 (Rs.frive thousand five hundred and thirty four and paise twenty)	2,49,039

34	26cum	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 40 x 20 x10 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compressive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc above floor 5 level for each four floors or part thereof with all lead and lift and all as per specifications and direction of Engineer-in-charge		Rs.5804.85 Rs.Five thousand Eight hundred and four and paise eighty five)	1,50,926
35	1040 m2	62 mm thick cement concrete flooring with concrete hardener topping,under layer 50mm thick cement concrete 1:2:4, (1 cement,2course sand,4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2(1 cement hardener mix:2 graded stone aggregate ,6mm nominal size)by volume ,hardening compound mixed @2 lit/50 kg of cement or as per manufacturers specifications .This includes cost of cement slurry ,but excluding the cost of nosing of steps etc complete (SH: 11.5)	m2	Rs.706.80 (Rs.Seven hundred and six and paise eighty)	7,35,072
36	92.71 m3	Providing wood work(second class teak wood) 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 seperately)-(SH: 9.1.1)	m3	Rs.1,33,389.00 (Rs, One lakh thirty three thousand three hundred and eighty nine only)	1,23,66,494
37	3440 nos.	Providing 40 x 5mm flat iron hold fast 40 cm long including fixing to frame with 10mm diameter bolts ,nuts and wooden plugs and embedding in cement concrete block 30 x 10 x 15 cm ,1:3:6 mix (1 cement:3 course sand :6 graded stone aggrigate 20mm nominal size) (SH: 9.53)	Each	Rs.136.00 (Rs. One hundred and thirty six only)	4,67,840
38	42660kg	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.(SH: 9.48)	kg	Rs.127.00 (Rs.One hundred and twentyseven only)	54,17,820

39	41882 m2	Plastering(cement plaster) with CM 1:4 (1 cement,4 fine sand) ,12mm thick, to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.1.1) upto 10m height for exterior walls	m2	Rs.197.80 (Rs. One hundred and ninety seven and paise eighty)	82,84,260
40 a	910 sqm	Plastering(cement plaster) with CM 1:4 (1 cement,4 fine sand) ,12mm thick, to the external walls including all costs of materials and labour charges watering , curing etc complete) for height 10.00 to 13.00m		Rs.236.80 Rs.Two hundred and thirty six and paise eighty	2,15,488
b	910 sqm	-Do- for height 13m to 16 m		Rs.275.80 Rs.Two hundred and seventy five and paise eighty	2,50,978
c	910 sqm	-Do- for height 16m to 19 m		Rs.314.80 Rs.Three hundred and fourteen and paise eighty	2,86,468
d	1080 sqm	-Do- for height 19m to 22 m		Rs.353.80 Rs.Three hundred and fifty three and paise eighty	3,82,104
e	910 sqm	-Do- for height 22m to 25 m		Rs.392.80 Rs.Three hundred and Ninety two and paise eighty	3,57,448
f	680 sqm	-Do- for height above 25 m		Rs.431.80 Rs.Four hundred and thirty one and paise Eighty	2,93,624
41	35860 m2	Plastering(cement plaster) with CM 1:3 (1 cement, 3 fine sand) 6mm thick, to the under side of roof slab including all cost of materials and labour charges, watering, curing etc complete (SH: 13.16.1)	sqm	Rs.155.10 (Rs. One hundred and fifty five and paise ten)	55,61,886
42	11495 sqm	Plastering (cement plaster) with Cement Mortar 1:4(1 cement, 4 fine sand) finished with a floating coat of neat cement, 12 mm thick, to top of sun shade etc., including all cost of materials and labour charges etc complete (SH: 13.7.2)	m2	Rs.240.35 (Rs. Two hundred and forty and paise thirty five)	27,62,823
43	5810 m2	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturer(SH: 13.21) on the top of roof slab and sunshade etc.	m2	Rs.5.55 (Rs. Five and paise fifty five)	32,246

44	2535m2	Providing and fixing panelled or panelled and glazed shutters for doors ,windows and clerestery windows ,including ISI marked MS pressed butt hinges bright finished of required size with necessary screws ,excluding panelling which will be paid for seperately ,all complete as per direction of Engineer -in-charge (Second class teakwood-35mm thick shutters)-(SH: 9.5.1.1)	m2	Rs.3607.10 (Rs. Three thousand six hundred and seven and paise ten)	91,43,999
45	512 m2	Providing and fixing panelled or panelling and glazing in panelled or panelled and glazed shutters for doors ,windows and clerestory windows(Area of opening for panel inserts excluding portion inside grooves or rebates to be measured)Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick- using 2 nd class teak wood) (SH: 9.7.1)	m2	Rs.2906.00 (Rs.Two thousand nine hundred and six only)	14,87,872
46	35 m2	Providing and fixing ornamental panelled or panelling and glazing in panelled or panelled and glazed shutters for doors ,windows and clerestory windows(Area of opening for panel inserts excluding portion inside grooves or rebates to be measured)Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick- using 2 nd class teak wood) (SH: 9.7.1)	m2	Rs.3,117.50 (Rs.Three thousand one hundred and seventeen and paise fifty)	1,09,113
47	1403 m2	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors ,windows and clerestory windows(Area of opening for panel inserts excluding portion inside grooves or rebates to be measured)Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick- (Float glass panes - 4 mm thick glass panes) (SH: 9.7.7.1) -	m2	Rs.1167.30 (Rs.One thousand one hundred and sixty seven and paise thirty)	16,37,722
48	70 m2	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors ,windows and clerestory windows(Area of opening for panel inserts excluding portion inside grooves or rebates to be measured)Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick- (Toughened glass panes - 8.00 mm thick glass panes) (SH: 9.7.7)	m2	Rs.3186.00 (Rs.Three thousand one hundred and eeighty six only)	2,23,020

49	602.5 m	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge (SH: 9.123)	m	Rs.429.70 (Rs. Four hundred and twenty nine and paise seventy)	2,58,894
50	167.5	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.(SH:9.124)	m2	Rs.2,691.40 (Rs.Two thousand six hundred and ninety one and paise forty)	4,50,810
51		Supplying and fixing furniture fittings as per details below inclusive of all labour, cost and conveyance etc complete			
a	40 nos.	Bright finished brass door latch 300 x 16 x 5 mm with necessary screws.	Each	Rs.221.60 (Rs.Two hundred and twentyone and paise sixty)	8,864
b	14 nos.	Bright finished brass handle : 125mm with screws.	Each	Rs.194.60 (Rs.One hundred and ninety four and paie sixty)	2,724

c	18 nos.	Brass barrel tower bolts with Screws - 150 x 10mm	Each	Rs.209.20 (Rs.Two hundred and nine and paise twenty)	3,766
d	32 nos.	Bright finished brass butt hinges 125 x 85x5 mm (heavy type) with necessary screws	Each	Rs.412.40 (Rs.Four hundred and twelve and paise forty)	13,197
e	204 nos.	Aluminium aldrop - 200mm size- 16 mm dia	Each	Rs.158.65 (Rs.One hundred and fifty eight and paise sixty five)	32,365
f	204 nos.	Aluminium door handle with screws	Each	Rs.36.10 (Rs.Thirty six and paise ten)	7,364
g	404 nos.	150mm long Aluminium Tower bolt with screws	Each	Rs.46.10 (Rs.Forty six and paise ten)	18,624
h	808 nos.	150mm Iron butt hinges with screws	Each	Rs.28.80 (Rs.Twenty eight and paise eighty)	23,270
i	6272 nos.	100 mm iron butt hinges with screws	Each	Rs.12.30 (Rs.Twelve and paise thirty)	77,146
j	5800 nos.	75mm size iron hooks and eyes	Each	Rs.2.90 (Rs.Two and paise ninety)	16,820
k	1976 nos	250mm size iron hooks and eyes	Each	Rs.9.75 (Rs.Nine and paise seventyfive)	19,266
l	222 nos.	65mm dia 6 lever pad lock of best quality	Each	Rs.267.15 (Rs.Two hundred and sixty seven and paise fifteen)	59,307
m	62000 nos.	25mm iron screrws	10 nos.	Rs.5.80 (Rs.Five and paise eighty)	35,960

52	17324 kg	Providing and fixing stainless steel (Grade 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.). (SH : 10.28)	kg	Rs.592.30 (Rs. Five hundred and twenty nine and paise thirty)	1,02,61,005
53	1350 m	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. 110 mm diameter (SH: 12.41.2)	m	Rs.244.90 (Rs.Twohundred and forty four and paise ninety)	3,30,615
54	148 nos.	Providing and fixing and embedding sand cast iron accessories for rain water pipe in the masonry surrounded with 12mm thick cement mortar of the same mix as that of masonry 150mm diameter (SH: 12.40.1)	Each	Rs.407.85 (Rs.Four hundred and seven and paise eightyfive)	60,362
55	148 nos.	Providing and fixing to the inlet mouth of rainwater pipe cast iron grating 15cm diameter and weighing not less than 440 grams. (SH: 12.44)	Each	Rs.32.75 (Rs. Thirty two and paise seventy five)	4,847
56	50 Nos	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. 110 mm bend (SH : 12.42.5.2)	Each	Rs.205.75 (Rs. Two hundred and five and paise seventy five)	10,288
57	24 nos.	Providing and fixing on wall face unplasticised - PVCmoulded fittings/accessories for unplasticised Rigid PVC rain water pipes conformingto IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, 110mm shoe (SH: 12.42.6.2)	Each	Rs.291.70 (Rs.Two hundred and ninety one and paise seventy)	7,001

58	1200 Nos.	Providing and fixing on wall face unplasticised - PVC pipes clips of approved design to unplastic ised 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 cement mortar 1:4 and making good the wall etc. complete. size: 110mm (SH: 12.43.2)	Each	Rs.207.25 (Rs.Two hundred and seven and paise twentyfive)	2,48,700
59	81850 m2	Providing white cement wash one coat to newly plaster surface as priming coat including duting and cleaning the suraface,scaffolding charges etc complete	m2	Rs.20.45 (Rs.Twenty and paise fortyfive)	16,73,833
60	81850 m2	Wall painting with acrylic emulsion paint of interior grade two coats, having VOC contents less than 50 grams/litre, of approved brand and manufacture, iincluding applying additional coats wherever required, to achieve even shade and colour (SH: 13.83.2)	m2	Rs.79.40 (Rs.Seventy nine and paise forty)	64,98,890
61	14432 m2	Finishing walls with textured exterior paint of required shade - New work - two or more coats applied @ 3.28 lit/10 sqm over priming coat applied already done etc. as per the direction of the Engineer-in-charge (Based on SH: 13.45)	m2	Rs.139.90 (Rs. One hundred and thirty nine paise ninety)	20,19,037
62	6700 m2	Polishing on wood work with Ready mixed wax polish of approved brand and manufacture -New work-in the teak wood door including all cost of materials and labour etc. complete (SH: 13.69.1)	m2	Rs.84.00 (Rs. Eighty four only)	5,62,800
63	1000 m2	Painting with synthetic enamel paint two coats having VOC content less than 150 grams/litre of approved braaaaaaand and manufacture, including applying additional coats whjerever required to achieve even shade and colour	m2	Rs.71.25 (Rs.Seventy one and paise twenty five)	71,250
64	700 m2	Providing and laying granite flooring using 18 mm thick granite , flooring laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), 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. Black granite area of slab upto 0.50sqm (SH: 8.2.1.1.)	m2	Rs.3,457.30 (Rs.Three thousand four hundred and fifty seven and paise thirty)	24,20,110
65	510 m	Extra for pre finished nosing to treads of steps of granite stone (SH: 8.3.2)	m	Rs.313.35 (Rs.Three hundred and thirteen and paise thirty five)	1,59,809

66	19300 m2	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 course sand), including grouting the joints with white cement and matching pigments etc, complete (Size of tile 600 x 600 mm) (SH:11.41.2)	m2	Rs.1,551.25 (Rs. One thousand five hundred and fifty one and paise twentyfive))	2,99,39,125
67	557.5 m2	Providing and laying Ceramic glazed floor tiles of size 300 x 300mm (thickness to be specified by the manufacturer), of 1st quality confirming to IS :15622, of approved make, in colours such except Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 cement:4 course sand), including pointing the joints with white cement and matching pigment, etc complete	m2	Rs.1132.50 (Rs. One thousand one hundred and thirty two and paise fifty)	6,31,369
68	1800 m2	Providing and fixing 1st quality ceramic glazed wall tiles confirming to IS :15622 (thickness to be specified by 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 or steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement :3 course sand) and jointing with grey cement slurry @3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (SH: 11.36)	m2	Rs.979.60 (Rs. Nine hundred and seventy nine and paise sixty)	17,63,280
69	300 m2	Providing and laying interlocking cobbles 75mm thick (standard) minimum strength 4 kg sqm over sand bed 30mm including all labour, materials etc as per direction of engineer-in-charge	m2	Rs.842.00 (Rs. Eight hundred and forty two only)	2,52,600
70		Providing and fixing poly vinyl chloride (PVC) pipes, having thermal stability for hot & cold water supply, including all PVC plain & brass threaded fittings. This includes jointing of pipes & fittings, with one step PVC solvent cement, trenching, re-filling & testing of joints complete as per direction of Engineer-in-charge, internal work - exposed on walls			
a	100 m	15 mm nominal outer dia PVC pipe (12 kgf/cm2)	m	Rs.118.30 (Rs. One hundred and eighteen and paise thirty)	11,830

b	1125 m	20 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.129.30 (Rs.One hundred and twenty nine and paise thirty)	1,45,463
c	800 m	25 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.142.70 (Rs. One hundred and forty two and paise seventy)	1,14,160
d	100 m	40 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.226.65 (Rs.Two hundred and twentysix and paise sixtyfive)	22,665
e	70 m	50 mm nominal outer dia PVCpipe	m	Rs.262.70 (Rs. Two hundred and sixty two and paise seventy)	18,389
71		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for hot & cold water supply, including all PVC plain&brass threaded fittings i/c fixing the pipe with clamps at 1m spacing.This includes jointing of pipes & fittings,with one step PVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer- in- charge,concealed work ,including cutting chases and making good the wall etc (Concealed work)			
a	100 m	15 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.220.80 (Rs.Two hundred and twenty and paise eighty)	22,080
b	300 m	20 mm nominal outer dia PVCpipe(12 kgf/cm2)	m	Rs.223.50 (Rs. Two hundred and twenty three and paise fifty)	67,050
c	100m	25 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.236.85 (Rs. Two hundred and thirty six and paise eighty five)	23,685
72		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for hot & cold water supply, including all PVC plain&brass threaded fittings .This includes jointing of pipes & fittings,with one step PVC solvent cement ,trenching,re-filling & testing of joints complete as per direction of Engineer-in-charge, external work			
a	200 m	50 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.172.00 (Rs. One hundred and seventy two only)	34,400

b	330 m	62.5 mm nominal inner dia pipes (10kgf/cm ²)	m	Rs.231.40 (Rs. Two hundred and thirty one and paise forty)	76,362
73	60 nos.	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make coforming to IS:8931- (15mm nominal bore)	Each	Rs.502.00 (Rs. Five hundred and two only)	30,120
74	220 nos.	Providing and fixing CP brass Angle valve for basin mixer and geyser points of approved quality conforming to IS :8931 - (15mm nominal bore)	Each	Rs.519.00 (Rs. Five hundred and nineteen only)	1,14,180
75	40 nos.	Providing and fixing CP brass long body bib cock of approved quality coforming to IS standards and weighing not less than 690gms- 15mm nominal bore	Each	Rs.506.10 (Rs. Five hundred and six and paise ten)	20,244
76	16 nos	Constructing brick masonry manhole in cement mortar 1:4,(1 cement,4 course sand) with RCC top slab with 1:2:4 mix (1cemnt,2 course sand,4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement,4 course sand,8 graded stone aggregate 40mm nominal size) - slab thickness-15cm, inside plastering 12 mm thick with cement mortar 1:3,(1 cement :3 course sand) finished with neat cement flushing coat and making channels in cement concrete 1:2:4'(1 cement:2coarse sand :4 graded stone aggregate 20 mm nominal size)finished with neat cemeent flushing coat etc. complete as per standared design:Inside size 90 x 80cm and 45 cm deep including CI cover with frame (light duty) 455 x 610 mm intenal 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 FPS (non modular) bricks of class designation 7.5	Each	Rs.10,346.90 (Rs.Ten thousand three hundred and fortysix and paise ninety)	1,65,550
77	10 nos.	Providing and fixing CP brass bib cock of approved quality coforming to IS::8931-(15 mm nominal bore) (SH: 18.49.1)	Each	Rs502.00 Rs.Five hundred and two only)	5,020
78		Providing and fixing gun metal gate valve with CI wheeel of approved quality (screwed end):as per the direction of Engineer - in-charge			
a	10 nos.	a. 25mm size bore	Each	Rs.600.80 (Rs.Six hundred and paise eighty)	6,008
b	8 nos.	b. 40mm size bore	Each	Rs.1158.20 (Rs.One thousand one hundredand fiftyeight and paise twenty)	9,266

c	12 nos	c. 50mm size bore	Each	Rs.1,784.15 (Rs.One thousand seven hundred and eighty four and paise fifteen)	21,410
78	77 nos.	Providing and fixing white vitreous china pedestal type water closet(European type) with seat and lid ,10 litre low level white vetreous china flushing cistern &Cpflush bend with fittings &CI brackets,40mm flush bend overflow arrangement with specials of standared make and mosquito proof coupl,ing of approved municipal design complete ,including painting of fittings and brackets,cutting and making good the walls and floors wherever required - WCpan with ISI marked white solid plastic seat and lid (SH: 17.2.2)	Each	Rs.4,313.00 (Rs.Four thousand three hundred and thirteen only)	3,32,101
79	136 nos	Providing and fixing wash basin with CI brackets ,15 mm CP brass pillar taps,32mm CP brass waste of standared pattern ,including painting of fittings and brackets ,cuttings and making good the walls wherever require - White vetreous china wash basin size 550x400mm with 15 mm CP brass pillar tap (SH: 17.7.1)	Each	Rs.2,053.25 (Rs.Two thousand and fifty three and paise twenty five))	2,79,242
80	60NOS.	Providing and fixing white vitreous china flat or wall corner type lipped front urinal basin of 430x260x350 mm with flushing cistern with standard flush pipe and C.P.Brass spreaded with brass union and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required: One urinal with 5 litre white PVC flushing cistern (H: 17.4)	Each	Rs.3,622.00 (Rs.Three thousand six hundred and twenty two only)	2,17,320
81	140 nos.	Providing and fixing PVC waste pipe for sink or wash basinincluding PVC waste fittings - flexible pipe-32 mm dia. (SH: 17.28.2.1)	Each	Rs.50.20 (Rs.fifty and paise twenty)	7,028
82	10 nos.	Providing and fixing 100mm sand cast iron grating for Gully trap (SH: 17.29)	Each	Rs.24.60 (Rs.Twenty four and paise sixty)	246
83	10 Nos.	Providing and fixing ball valve (brass) of approved quality,High or low pressure,with plastic floats complete: 15mm nominal bore (SH: 18.18.1)	Each	Rs.309.00 (Rs.Three hundred and nine only)	3,090
84	15 nos,	Providing and fixing ball valve (brass) of approved quality,High or low pressure,with plastic floats complete: 25mm nominal bore (SH: 18.18.	Each	Rs.520.40 (Rs.Fivwe hundred and twenty and paise forty)	7,806

85	80 Nos.	Providing and fixing 100 mm PVC multi floor trap of approved quality in the toilet room	Each	Rs.112.90 (Rs.One hundred and twelve and paise ninety)	9,032
86	33 nos.	Supplying and fixing PTMT 600 mm Towel rod of approved quality including all cost of materials and labour charges for fixing etc complete (SH:17.73.2)	Each	Rs.327.65 (Rs.Three hundred and twentyseven and paise sixty five)	10,812
87	33 nos.	Supplying and fixing PTMT 138 x 102 x 75 mm soap dish of approved quality in the toilet room including all cost of materials and labour charges for fixing etc complete (SH.18.65)	Each	Rs.183.60 (Rs.One hundred and eightythree and paise sixty)	6,059
88	136 nos.	Supplying and fixing mirror of superior qualityand of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing - Reectangular shape 453 x 357mm (SH: 17.32.2)	Each	Rs.805.45 (Rs.eight hundred and five and paie fortyfive)	1,09,541
89	4 nos	Providing and fixing stainless steel A ISI 304 (18/8) kitchen sink as per IS13893 with C.I.Brackets and stainless steel plug 40mm, includinmg painmtng of iftings and brackets, cuttting and making good the walls, wherevere required: Kitchen sink with drain board - 510 x 1040 mm bowl depth 250mm(SH: 17.10.1)	Each	Rs.7,135.20 (Rs.Seven thousand one hundred and thirty five and paise twenty)	28,541
90	40000 ltr.	Providing and placing on terrace (at all floor levels)polyethlene water storage tank ISI ; 12701 marked ,with cover and suitable locking arrangements and making necessary holes for inlet ,outlet and over flow pipes but without fittings and the base support for tank.750 litre capacity (SH: 18.48)	Litre	Rs.5.60 (Rs.five and paise sixty)	2,24,000
91	10 Nos.	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 30 x 300 mm size (inside) the weight of cover to be not less than 4.5kg aand frame to be not less than 2.7 kg a per standard design 100 x 100 mm size P type - with common burnt clay F.P.S (non-modular) bricks of class designation 7.5 (SH: 19.4.1.1)	Each	Rs.1,995.40 (Rs.One thouand nine hundred and ninetyfive and paise forty)	19,954
92	127.5 cum	Supplying and stacking 36 mm nominal size broken stone for waste water pit	cum	Rs.1324.10 Rs.One thousand three hundred and twenty four and paise ten)	1,68,823

93	12 cum	Supplying and stacking 12-15 mm nominal size broken stone for waste water pit	cum	Rs.2577.75 Rs.Two thousand five hundred and seventy seven and paise seventy five	30,933
94	5 nos.	Making soak pit 2.5m diameter 3.0metre deep with 45x45 cm dry brick honey comb shaft with bricks and S.W.drain pipe 100mm diameter,1.8m long complete as per standard design (SH: 19.32.1.)	Each	Rs.17,815.50 (Rs.Seventeen thousand eight hundred and fifteen and paise fifty)	89,078
95	1252m	Providing and fixing poly vinyl chloride(PVC) pipes of dia 110 mm having thermal stability for hot & cold water supply, including all PVC plain&brass threaded fittings .This includes jointing of pipes & fittings,with one step PVC solvent cement ,trenching,re-filling & testing of joints complete as per direction of Engineer-in-charge. - external work 110mm dia pipe (4 kgf/cm2 - for sewage line)	m	Rs.225.00 (Rs.Two hundred and twentyfive only)	2,81,700
96		Supplying and providng 110mm dia PVC Specials for line work			
a	100 nos.	110 mm dia bend	Each	Rs.157.60 (Rs.One hundred and fiftyseven and paise sixty)	15,760
b	235 nos	110 mm dia PVC Tee.		Rs.197.45 (Rs.One hundred and Ninety Seven and forty five paise)	46,401
c	231 nos.	110 mm dia Door bend	Each	Rs.211.00 (Rs.Two hundred and eleven Only)	48,741
d	231 nos.	110 mm dia Door Tee.	Each	Rs.234.60 (Rs.Two hundred and Thirty four and paise Sixty)	54,193
e	16 nos	d. 110 mm dia Vent cowl	Each	Rs.89.10 (Rs.Eightynine and paise ten)	1,426
97	34 nos.	Providing M.S.foot rests including fixing in position with 20x20x10mm cement concrete block 1:3:6 (1 cement: 3 Coarse sand : 6 graded stone aggregate 20 mm nominal ize) as per standard design as per direction of engineer-in-charge (SH: 19.15.1) with 20 x 20mm square bar	Each	Rs.323.90 (Rs.Three hundred and twentythree and paise ninety)	11,013

98	14 nos.	Supplying and fixing C.I.Cover without frame for man hole/water tank: 455 x 610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	Rs,1,216.30 (Rs.One thousand two hundred and sixteen and paise thirty)	17,028
99	2600 sqm	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth dressing to camber and consolidating with road roller including making good the undulations etc and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres	sqm	Rs.92.95 (Rs.Ninety Two and Paise Ninety Five Only)	2,41,670
100	520 cum	Supplying graded Metal (70% 60 mm 30% 36 mmm)	cum	Rs.1215.15 (Rs.One Thousand Two hundred and Fifteen and paise fifteen)	6,31,878
101	310 cum	Supplying red earth for binding	cum	Rs.451.80 (Rs.Four hundred and fifty one and Eighty paise)	1,40,058
102	2600 sqm	Metalling road way 100mm spread thickness compacted to 75 mm using 60 mm depatl.broken stone etc as per specification daily out turn of roller 840 sqm for soiling (IRC)	10 sqm	Rs.852.90 (Rs.Eighty hundred and fifty two and Paise Ninety)	2,21,754
103	2600 sqm	Metalling road way 100mm spread thickness compacted to 75 mm using depatl.broken stone etc as per specification daily out turn of roller 840 sqm for two layer metalling (IRC)	10 sqm	Rs.852.90 (Rs.Eighty hundred and fifty two and Paise Ninety)	2,21,754

104	2600 sqm	Providing 20mm pre mixed chipping carpet over W.B.M surface with deptl.broken after thoroughly cleaning the base with wire brushes bass brooms and applying a priming coat of 7.5 kg of bitumen/10 sqm and spreading the hot premix(formed of 0.27 cum of deptl broken stone) Providing 20mm pre mixed chipping carpet over W.B.M surface with deptl broken after thoroughly cleaning the base with wire brushes bass rooms and applying a priming coat of 7.5 kg of bitumen/10sqm and spreading the hot premix (formed of 0.27 cum pf deptl. 12mm metal and 12.96 kg of betumen/10sqm) rolling to dense surface then spreading the seal coat (comprising of hot premix of 0.09 cum of 6mm dept metal and 8.64 kg of bitumen/10sqm) again rolling including the cost of betumen,oils and fuel,hire of bass brooms,camberboard,roller and other machineries watching, lighting and all other charges etc complete (total usage of betumen is 29.10 kg/10sqm)(Daily outturn of roller -840 sqm	10 sqm	Rs.11686.20 (Rupees Eleven Thousand six hundred and Eighty Six and paise Twenty Only)	30,38,412
105	12.6sqm	Streel work in bult up tubular (round,square, or rectangular hollow tubes etc)including cutting ,hoisting , fixing in position and applying a priming coat of approved steel primer,including welding and bolted with special shaped washers etc complete.(Hot finished welded type tubes)-For the front gate as per drawing	m2	Rs.4147.50 Rs.Four thousand one hundred and fortyseven and paise fifty	52259
		Total			43,13,02,228