



# कार्यालय परियोजना प्रबन्धक, यूनिट-55

कन्स्ट्रक्शन एण्ड डिजाइन सर्विसेज, उत्तर प्रदेश जल निगम (नगरीय),

परिसर निर्माणाधीन राजकीय मेडिकल कॉलेज, ग्राम-चितौरा, एन0एच0-2, फतेहपुर-212601

(उ0प्र0 सरकार का उपक्रम)

प्रधान कार्यालय :- टी.सी.-38-वी, विभूति खण्ड, गोमती नगर, लखनऊ-226010

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पत्रांक:- 706/ई-टेण्डर/96

दिनांक- 19.05.2026

## "शुद्धि-पत्र"

इस कार्यालय के पत्रांक 629/ई-टेण्डर/68 दिनांक 13.05.2026 द्वारा जनपद फतेहपुर के राजकीय इण्टर कॉलेज अर्जुनपुरगढ़ा में रसायन प्रयोग शाला निर्माण कार्य हेतु ई-निविदा आई0डी0-2026\_UPCDS\_1148227\_1 द्वारा सी0एण्ड डी0एस0 में पंजीकृत ठेकेदारों से दिनांक 23.05.2026 के अपरान्ह 16.00 बजे तक ई-निविदाएं आमन्त्रित की गई हैं, जिसके बिड डाक्यूमेण्ट के अन्तर्गत अपरिहार्य कारणोंवश संशोधित SCHEDULE-G (B.O.Q.) अपलोड किया जा रहा है। जिसकी कुल लागत 13.60 लाख है। उक्त के अतिरिक्त समस्त शर्तें एन0आई0टी0 के अनुसार यथावत् रहेगी।

समस्त शुद्धि पत्र (corrigendum) <http://etender.up.nic.in> पर ही अपलोड किये जायेंगे, इनका पृथक से कोई प्रकाशन नहीं किया जायेगा। निविदादाताओं को सलाह दी जाती है कि वे उक्त वेबसाइट का समय-समय पर अवलोकन करते रहें।

संलग्न:- SCHEDULE-G (B.O.Q.)

  
परियोजना प्रबन्धक

**CONSTRUCTION OF CHEMISTRY LAB GOVT. INTER COLLEGE, ARJUNPUR,GARHA, DIST.FATEHPUR (U.P.)**

**BILL OF QUANTITY**

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	RATES	AMOUNT
<b>CIVIL WORK UPTO P.L</b>					
1	Excavation in foundation in ordinary soil (loam clay or sand) including lift upto 1.50 meter and lead upto 30 meter and including filling, watering and ramming of excavated earth into the trenches or into the space between the building and sides of foundation trenches or into the plinth and removal and disposal of sur-plus earth as directed by the Engineer incharge up to a distance of 30 meters from the foundation trenches.	32.46	CUM	185.45	6019.55
2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	3.29	CUM	499.06	1641.90
3	Sand filling in plinth including supply of necessary quantity of sand from a distance not exceeding 8 kms. from the site of work and including watering, dressing etc rate to include cost of all materials labour T & P etc required for proper completion of work.	6.10	CUM	1513.02	9229.43
4	Construction of drain along apron.Size 150 X 150mm.	35.14	RM	788.27	27699.70
5	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete,including cost of form- work, in foundation and floors.	7.80	CUM	4853.07	37853.92
6	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and around the column pits wall trenches basement excavation top surface if plinth filling junction of wall and floor, along the the external perimeter of binding expansion joints, surrounding of pipes and conduits etc, complete (plinth area of the building at ground				
	floor only shall be measured as per I.S.6313(PartII 1981)Alderine emulsifiable concentrate or any other approved material such as Heptachlor or Chlordane will be used. The rate of application of chemical emulsion shall be as follows : (1)Treatment for masonry & foundation 5 liters per sqm. (2) Back fill in immediate contact with foundation 7.5 liters/sqm (3) Treatment of top surface of plinth filling 5 liters/sqm				
	(4) Treatment of soil along external perimeter of building 7.5 liters/sqm. (5) Treatment of soil under apron along external perimter 5 liters/sqm.	66.99	SQM	220.89	14796.66
7	RCC Work for the lighter beams i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete) [1 cement :1.5 coarse sand :3 stone aggregate] M-20	1.09	CUM	6444.45	7024.46
8	As in item 6 above but in R.C.C. Footing / foundation and footing with approved stone ballast.(Using 1:1.5:3 Mix concrete). M-20	1.35	CUM	6444.45	8700.01
9	As in item above but in R.C.C. columns in1:1.5:3having strength not less than M 150. (PWD-289) M-20	0.32	CUM	6444.45	2062.23
10	M-150 brick work in 1:6 (one cement and six coarse sand sand of 2.25 fineness modulus) mortar in foundation & plinth including supply of all materials, labour and T & P etc required for proper completion of the work.	18.80	CUM	5081.22	95526.96
11	Providing and laying damp-proof course 25 mm thick with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 12.5mm nominal size)	5.80	SQM	292.70	1697.67
12	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	5.80	SQM	104.12	603.90
13	P/F Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates ) wrought to required shape as necessary including bending for proper completion of the work and including supply of all steel and and over lapping & hooks.	2.00	QTL.	7683.55	15367.09
14	15mm thick plaster with cement mortar in proportion of 1:4 cement & coarse sand of 2.25 F.M.	11.96	SQM	293.34	3508.38
15	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	6.00	SQM	279.38	1676.27
(b)	Columns,Pillars, Piers, Abutments, Posts and Struts.	4.32	SQM	684.86	2958.59
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	9.58	SQM	524.63	5025.98
	<b>TOTAL</b>				<b>241392.71</b>
<b>CIVIL WORK ABOVE P.L</b>					
1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources). <b>R.C.C. work in Lintel (M-20)</b>	0.92	CUM	8196.85	7541.10
2	As in item no. 1 above but for slabs (Using 1:1.5:3 Mix concrete). [1 cement :1.5 coarse sand :3 stone aggregate] M-20	6.50	CUM	8196.85	53279.53

3	As in item 1 but for the lighter beams i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete) [1 cement :1.5 coarse sand :3 stone aggregate] M-20	1.65	CUM	8196.85	13524.81
4	As in item 3 above but in R.C.C. columns in 1:1.5:3 having strength not less than M 150. M-20	0.95	CUM	7731.96	7345.36
5	Brick work in super-structure above plinth level up to floor two level (up to two storeys) including necessary cutting and moulding of bricks as required and also including honey comb brick work thickness of wall not to be less than 1.5 brick thick. (1:6 cement & coarse sand)	17.25	CUM	6487.34	111906.66
6	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing				
	Compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep	65.25	SQM	1200.16	78310.30
7	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws 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): Rectangular or square	10.08	SQM	1846.47	18612.45
8	Mild steel or iron work				
(a)	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	7.20	KG	69.25	498.59
(b)	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	119.25	KG	139.07	16583.64
9	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
	<b>Note:</b> For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.				

	AVentilator Casement window single panel with or without fixed panel with S.S. 304 friction hinges as per size and weight of sash, single point locking zinc alloy (zamak) powder coated handles 9.147.D1.2 Using R2 series with frame (39 mm & above) x (39 mm & above) & sash /mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre)	9.90	SQM	8730.75	86434.38
10	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading	9.90	SQM	807.57	7994.98
11	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	69.30	SQM	454.78	31516.19
12	Float glass panes mm thick glass pane (weight not less than 10 kg/sqm).	10.98	SQM	1597.12	17536.41
13	P/F Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates ) wrought to required shape as necessary including bending for proper completion of the work and including supply of all steel and and over lapping & hooks.	13.21	QTL.	7683.55	101499.65
14	15 mm cement plaster in single coat on rough side of single or half brick wall for interior plastering up to floor two level including internal rounded angles not exceeding 80 mm in girth and finished even and smooth. (1) 1 cement : 6 coarse sand.	195.79	SQM	281.66	55145.98
15	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. (1) 1 cement : 6 Coarse sand 2.25 F.M.	113.11	SQM	244.83	27692.29
16	12mm thick plaster in 1:3 cement & coarse sand on ceiling and soffits of stairs upto floor two level.				
17	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.	43.43	SQM	1106.72	48064.97
18	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 15mm thick cement mortar 1:3 (1 cement : 3 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.	4.01	SQM	1156.31	4636.79
19	Supply and fixing of Kota Stone in flooring 25mm thick and joint filled 1:2 cement and coarse sand with approved colouring materials to be given an even shade with 12mm base coat (bedding) of 1:2 cement & coarse sand mortar and polished by hand or machine and finally finished with french manson polish or other approved polish including supply of all materials, labour, tools & plants etc required for proper completion of the work. <b>25mm thick</b>	17.37	SQM	1387.99	24109.38
20	Supply and fixing 10 to 12mm thick Kota Stone tiles in skirting or dado laid with 1:2 cement and approved coarse sand mortar finished with in its cement colour slurry, jointing and polished or approved quality complete, including supply of all materials, labour tools & plants etc required for proper completion of teh work. <b>25mm thick</b>	9.92	SQM	1677.56	16641.36
21	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12-20mm nominal size laid in one layer neat cement (40 mm thick floor).	31.63	SQM	437.57	13840.46
22	Painting 1st coat over priming coat (but excluding cost of priming coat) on steel and other metal surfaces up to 10 cm.width or girth or small articles not exceeding 0.10sqm in area white superior synthetic enamel such as LUXOL3,Hi-gloss apcolite superlac, DULUX specified brushing to give an even shade and including cleaning the surface of all dirt,dust and other foreign matter sand papering and stoping including cost of all materials, labour tools and plants etc. required for proper completion of the work. <b>(M.S. works)</b>	3.67	SQM	161.19	591.56
23	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : 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) with base	195.79	SQM	121.90	23866.13
24	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour (Inner walls) .	113.11	SQM	132.26	14960.20
25	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour (Ceiling) .	62.83	SQM	132.26	8310.05

26	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	371.73	SQM	111.17	41326.91
27	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 250x16 mm	2.00	NOS	138.00	275.99
28	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	(a) 250 mm x 10mm	4.00	NOS	59.77	239.09
29	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 125 mm	4.00	NOS	28.46	113.85
30	Providing and laying in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) and curing complete,including cost of form- work, in foundation and floors.	0.70	CUM	5612.87	3922.72
31	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
(a)	Suspended floors, roofs, landings, balconies and access platform.	71.95	SQM	660.60	47530.15
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	29.47	SQM	524.63	15458.77
(c)	Columns,Pillars, Piers, Abutments, Posts and Struts.	16.80	SQM	684.86	11505.61
	<b>TOTAL</b>				<b>910816.34</b>
	<b>INTERNAL PLUMBING WORKS</b>				
	<b>SUB HEAD-I-SANITARY INSTALLATIONS</b>				
1	Providing and fixing CP Brass <b>32mm size Bottle Trap</b> of approved quality & make and as per the direction of Engineer-in-charge.	2.00	Each	737.22	1474.44
2	Providing and fixing <b>C.P. brass angle valve for basin mixer and geyser</b> points of approved quality conforming to IS 8931 ( <b>including angle valve for WC flushing cistern &amp; jet</b> )				
	15 mm nominal bore	2.00	Each	409.15	818.30
3	Providing and fixing <b>uplasticised PVC connection pipe</b> with brass unions :				
	15 mm nominal bore	2.00	Each	69.64	139.28
4	Providing & fixing PVC waste pipe for <b>sink</b> including PVC waste fittings Complete				
	32mm Dia	2.00	Each	85.17	170.34
5	Providing and fixing <b>C.P. brass long body bib cock</b> of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	2.00	Each	569.20	1138.40
6	Providing and fixing <b>C.P. Brass extension nipple</b> (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	2.00	Each	53.29	106.58
7	Providing and fixing white vitreous china <b>laboratory sink</b> with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :				
	Size 600x450x200 mm	2.00	Each	4691.91	9383.82
	<b>TOTAL OF SUBHEAD-I</b>				<b>13231.16</b>
	<b>SUB HEAD-II-WATER SUPPLY</b>				
1	Providing and fixing <b>Chlorinated Polyvinyl Chloride (CPVC) pipes</b> , having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC 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.				
	<b>Concealed work</b> , including cutting chases and making good the walls etc.				
	<b>For Internal Toilet</b>				
	15 mm nominal outer dia Pipes	5.00	Metre	354.65	1773.24
	20 mm nominal outer dia Pipes	10.00	Metre	383.00	3830.02
	25 mm nominal outer dia Pipes	5.00	Metre	446.87	2234.36
2	Providing and fixing <b>GI pipes complete with GI fittings</b> and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on Wall				
	<b>Terrace loop &amp; Tank Filling Pipe</b>				
	25 mm nominal bore	25.00	Metre	393.05	9826.25
3	Painting G.I. pipes and fittings with two coats of <b>anti-corrosive bitumastic paint</b> of approved quality :				
	25mm diameter pipe	25.00	Metre	13.07	326.75
4	Providing and fixing <b>G.I. Union in G.I. pipe</b> including cutting and threading the pipe and making long screws etc. complete (New work) :				
	25mm diameter pipe	8.00	Each	312.93	2503.44
5	Providing and fixing <b>gun metal gate valve</b> with C.I. wheel of approved quality (screwed end) :				
	<b>For vertical pipe connection with terrace ringmain</b>				
	25mm nominal bore	1.00	Each	443.42	443.42

6	Making connection of <b>G.I. distribution branch with G.I. main</b> of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
	25 to 40 mm nominal bore	1.00	Each	649.66	649.66
<b>TOTAL OF SUBHEAD-II</b>					<b>21587.13</b>
<b>SUB HEAD : III - ROOFING</b>					
1	Providing and fixing on wall face <b>unplasticised Rigid PVC rain water pipes</b> 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 dia (for rain water)	10.00	Metre	268.87	2688.70
2	Providing and fixing on wall face <b>unplasticised - PVC moulded fittings/ accessories</b> 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.				
	Single Push Fit Coupler				
	110 mm dia	3.00	Each	90.91	272.73
	Single tee with door				
	110x110x110 mm	1.00	Each	166.82	166.82
	Plain bend 87.5 deg				
	110 mm dia	2.00	Each	107.11	214.22
3	Providing and fixing <b>unplasticised -PVC pipe clips</b> of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 mm dia	5.00	Each	264.52	1322.60
4	<b>Making khurras 45x45 cm</b> with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	1.00	Each	212.48	212.48
5	<b>Excavating trenches</b> by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers 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.				
	All kind of soil				
	Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	5.00	Metre	250.88	1254.40
	Providing and laying <b>cement concrete 1:5:10</b> (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	100mm dia SW pipe	5.00	Metre	687.32	3436.60
<b>TOTAL OF SUBHEAD-III</b>					<b>9568.55</b>
<b>SUB HEAD : IV - INTERNAL DRAINAGE</b>					
1	Providing, fixing, jointing and testing, <b>uPVC SWR pipes, - type B conforming to IS : 13592</b> to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes.				
	<b>Internal Toilet (Soil &amp; Waste Pipe)</b>				
	75 mm	10.00	Metre	479.75	4797.50
2	Providing and fixing on wall face <b>unplasticised - PVC moulded fittings/accessories</b> for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion.				
	<b>Bend without door (45°)</b>				
	75mm	4.00	Each	128.25	513.00
	<b>Bend without door (87.5°)</b>				
	75mm bend	2.00	Each	142.50	285.00
	<b>Y' Fitting without door</b>				
	75mm	1.00	Each	218.50	218.50
	<b>Single Tee without door</b>				
	75mm	1.00	Each	213.75	213.75
	<b>Single Tee with door</b>				
	75mm	4.00	Each	242.25	969.00
	<b>Bend with door (87.5°)</b>				
	75mm	4.00	Each	175.75	703.00
	<b>Reduced Tee with door</b>				
	110mm x 75mm	4.00	Each	351.50	1406.00
	<b>Coupler</b>				
	75mm	3.33	Each	133.00	443.33

3	Providing, fixing, jointing and testing, <b>unplasticized PVC pipes - 10 kg/cm<sup>2</sup> confirming to IS : 4985</b> to wall, ceiling and floor, approved quality, complete, for waste water drain including jointing with rubbering/solvent/solution and airtight joints, etc.				
	<b>For Wash basin &amp; Urinal</b>				
	32mm dia. Pipe	2.00	Metre	175.75	351.50
	<b>Elbow (45°)</b>				
	32mm	2.00	Each	42.75	85.50
	<b>Elbow (90°)</b>				
	32mm	2.00	Each	38.00	76.00
	<b>T fitting</b>				
	32mm	2.00	Each	42.75	85.50
	<b>Coupler</b>				
	32mm	0.67	Each	33.25	22.17
4	Providing, fixing, jointing and testing , of <b>PVC Multi Floor Trap without jali</b> of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.				
	110mm x 75mm x 50mm/40mm (Toilet)	2.00	Each	1159.00	2318.00
5	Providing and fixing square-mouth <b>S.W. gully trap</b> 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 :				
	150 x 100mm size P-type				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	Each	1947.92	1947.92
6	Providing, laying and jointing <b>glazed stoneware pipes class SP-1</b> with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:				
	100 mm diameter	2.00	Metre	316.03	632.07
	150 mm. dia. RCC Pipes	13.00	Metre	396.43	5153.60
7	<b>Excavating trenches</b> by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers 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.				
	All kind of soil				
	Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	15.00	Metre	250.88	3763.23
8	Providing and laying <b>cement concrete 1:5:10</b> (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	100mm dia SW pipe	2.00	Metre	687.32	1374.63
	150mm dia SW pipe	7.00	Metre	840.56	5883.92
9	Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) RCC top slab with 1:2:4 mix (1 cement :2 coarse sand :4 graded stone aggregate 20mm 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 fo neat cement and making channels in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20mm nminal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90x80cms and 45cms deep including CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg).				
	With common burnt clay FPS (non modular) bricks of class designation 7.5				
	(i) For Sewer Line	1.00	Each	9098.11	9098.11
	Extra for depth for manholes:				
	Size 90x80cm with With common burnt clay FPS (non modular) bricks of class designation 7.5	0.50	Metre	6287.47	3143.74

10	Providing orange colour safety <b>foot rests</b> of minimum 6 mm thick plastic encapsulated as per IS:10910 on 12 mm dia steel bar conforming to IS:1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm thread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	2.00	Each	394.47	788.94
<b>TOTAL OF SUBHEAD-IV</b>					<b>44273.91</b>
<b>INTERNAL ELECTRICAL WORKS</b>					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
Group - C		13.00	Point	1222.19	15888.47
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	185.00	Metre	191.51	35429.35
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	50.00	Metre	223.06	11153.00
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	70.00	Metre	267.53	18727.10
3	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	4.00	Each	390.90	1563.60
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	2.00	Each	472.67	945.34
5	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	3.00	Each	33.71	101.13
6	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	4.00	Each	74.59	298.36
7	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	12.00	Each	108.30	1299.60
8	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	3.00	Each	209.62	628.86
9	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	3.00	Each	38.00	114.00
<b>TOTAL</b>					<b>86148.81</b>
<b>SUB-HEAD II - FANS &amp; LIGHT FIXTURES:</b>					
1	<b>LED Batten light (System lumen efficacy &gt;135 lm/Watt)</b>				

	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm)				
	18- 22 Watt	6.00	Each	564.48	3386.88
	40 watt	6.00	Each	600.34	3602.04
11	<b>Brush Less Direct Current (BLDC) Fan with Remote</b> Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.	3.00	Each	1932.99	5798.97
	<b>TOTAL</b>				<b>12787.89</b>
	<b>SUBHEAD- III: DISTRIBUTION BOARD</b>				
12	Supplying and fixing following way ,single pole and neutral,sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	12 way, Double Door	1.00	Nos	2059.22	2059.22
13	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required				
	40 amps SP MCB	5.00	Each	679.25	3396.25
	40 amps DP MCB	1.00	Each	874.00	874.00
14	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	3.00	Each	10.04	30.12
	<b>TOTAL</b>				<b>6359.59</b>
	<b>GRAND TOTAL</b>				<b>1346166.09</b>
	<b>ADD LABOUR CESS @ 1% ON GRAND TOTAL</b>				<b>13461.66</b>
	<b>TOTAL IN RS.</b>				<b>1359627.75</b>
	<b>SAY IN RS. LACS</b>				<b>13.60</b>