

SUMMARY OF COST

**BILL OF QUANTITY OF
INDUSTRIAL TRAINING INSTITUTE (I.T.I.)
AT ITWA, SIDDHARTHANAGAR (U.P)**

SUMMARY OF COST

Sr. No.	Particular	AMOUNT (in lacs)
	Civil work, External water sewerage & Development	460.06
	Electrical work:-Internal Electrification, Fire Fighting System & H.P.M.V. Lamp	74.07
	Total	534.13



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**BILL OF QUANTITY OF
INDUSTRIAL TRAINING INSTITUTE (I.T.I.)
AT ITWA, SIDDHARTHANAGAR (U.P)**

**BILL OF QUANTITY OF CIVIL WORK- (ACADEMIC BUILDING, WORKSHOP, TYPE I
RESIDENCE (2 NOS), TYPE III RESIDENCE (1 NOS) C.C. ROAD, STROM WATER DRAIN, MAIN
GATE, BOUNDRY WALL, OVER HEAD TANK RAIN WATER HARVESTING TUBEWELL) &
WATER SUPPLY & SANITARY WORK**

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
	SUB HEAD:- CIVIL WORK				
1	EXCAVATION in foundation in ordinary Soil (Loam clay or sand) including lift upto 1.5m lead upto 30.0 m & including filling watering and ramming of excavated earth into the space between the building & sides of foundation trenches or into the plinth and removal & disposal surplus earth as directed by the engineer I/C within a lead of 30 m.from foundation trenches.	1927.94	CUM.	89.30	172165.04
2	Filling of available excavated earth in trenches, plinth, sides of foundation etc. inlayers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering including lead upto 50m & lift upto 1.50m.	1141.91	CUM.	61.75	70512.94
3	Sand filling in plinth including supply of necessary quantity of sand from a distance not exceeding 8.00Kms. From the site of work including watering, dressing etc. labour & T &P etc. required for proper completion of work saplings of girth upto 30 ground level and removal of rubbish upto a distsnce of 50m out side the periphery of area cleared. under floor Local sand.	236.62	CUM.	631.75	149484.69




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TENDER BOQ CIVIL WORK

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
4	Providing and laying Cement concrete 1:4:8 (1cement :4 coarse sand :8 graded stone ballast 40 mm. nominal size) including supply of all materials, labour and T&P etc. required for proper completion of the work and curing complete, also including cost of formwork in foundation.	402.19	CUM.	4892.50	1967714.58
5	R.C.C. work with cement approved coarse sand and 2cm Gauge approved stone ballast in the proportion of 1:1.5:3 in RCC raft foundation and footing , excluding its fixing and binding wire and including necessary centering and shuttering etc and also including S/o all materials required for proper completion of the work. Binding wire to be supplied by the contractor free of cost.	267.29	CUM.	6840.00	1828263.60
6	R.C.C. work with cement approved coarse sand and 2cm Gauge approved stone ballast in the proportion of 1:1.5:3 in COLUMN , excluding its fixing and binding wire and including necessary centering and shuttering etc and also including S/o all materials required for proper completion of the work. Binding wire to be supplied by the contractor free of cost.	102.93	CUM.	8360.00	860494.80
7	R.C.C. work with cement approved coarse sand and 2cm Gauge approved stone ballast in the proportion of 1:1.5:3 , excluding its fixing and binding wire and including necessary centering and shuttering etc and also including S/o all materials required for proper completion of the work. Binding wire to be supplied by the contractor free of cost. But in plinth beams having spans upto 6 metres.	78.99	CUM.	8930.00	705380.70




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8	R.C.C. work with cement approved coarse sand and 2cm Gauge approved stone ballast in the proportion of 1:1.5:3 in lintels of doors and windows , excluding its fixing and binding wire and including necessary centering and shuttering etc and also including S/o all materials required for proper completion of the work. Binding wire to be supplied by the contractor free of cost.	70.76	CUM.	7666.50	542481.54
9	R.C.C. work with cement approved coarse sand and 2cm Gauge approved stone ballast in the proportion of 1:1.5:3 in , excluding its fixing and binding wire and including necessary centering and shuttering etc and also including S/o all materials required for proper completion of the work. Binding wire to be supplied by the contractor free of cost. But in slab	262.23	CUM.	8265.00	2167330.95
10	R.C.C. work with cement approved coarse sand and 2cm Gauge approved stone ballast in the proportion of 1:1.5:3 in , excluding its fixing and binding wire and including necessary centering and shuttering etc and also including S/o all materials required for proper completion of the work. Binding wire to be supplied by the contractor free of cost. But in HAVIER beams having spans upto 6 metres.	174.27	CUM.	9690.00	1688676.30
11	Class-150 brick work in 1:6 cement and COARSE sand mortar in foundation and plinth including supply of all materials, labour tools and plants, etc. Required for proper completion of the work.	430.98	CUM.	4887.75	2106522.50
12	Class-150 brick work in 1:6 cement and COARSE sand mortar in SUPERSTRUCTURE including supply of all materials, labour tools and plants, etc. Required for proper completion of the work				
	G.F.	722.89	CUM.	5305.75	3835473.62
	F.F.	142.43	CUM.	5305.75	755697.97
	S.F.	124.91	CUM.	5358.81	669368.96
	TARRACE	38.18	CUM.	5411.87	206625.20




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
13	Class-150 HALF brick work in 1:4 cement and COARSE sand mortar in SUPERSTRUCTURE including supply of all materials, labour tools and plants, etc. Required for proper completion of the work.				
	G.F.	38.33	CUM.	5405.50	207192.82
	F.F.	17.25	CUM.	5405.50	93244.88
	S.F.	17.25	CUM.	5459.56	94177.41
	TARRACE	1.14	CUM.	5513.61	6285.52
14	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg 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.	180.23	S.Q.M.	125.40	22600.84
15	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and around the coloumn pitwall tench basement excavation top surface if plinth filling junction of wall and floor along the external perimer 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(Part II 1981) aldrine emulsifiable concrete or any other approved material such as hepthachlor or chlordance will be used.The rate of application of chemical emulsion shall be as follows:- (1) treatment for masonry & foundation 5 litres per sq.m. (2) back fill in immediate contract with foundation 7.5 litre per sq.m (3)treatment of top surface of plinth filling 5 liters per sq.m. (4) treatment of soil along external parameter of building 7.50 lire per sq.m.	1783.98	SQM.	125.40	223711.09




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
16	Mild steel or iron in plain work such as in reinforced concrete or reinforced brick work (when not included in overall rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage. Bend hooks and authorized overlapping shall be measured.	1149.29	qui	5410.25	6217946.22
17	Fixing of steel or wooden Chaukhats in position.				
	Doors chaukhats above 1.5 Sqm	89.00	Nos	78.85	7017.65
	Window chaukhats more than 1.5 Sq.M.	104.00	Nos	63.65	6619.60
	ventilator chaukhats	28.00	Nos	53.20	1489.60
18	Providing and fixing SS sliding door bolts ISI marked anodised transparent or dyed to required colour or shade with nuts and screws etc. complete : 250x16 mm.	71.00	Nos	285.00	20235.00
19	Providing and fixing SS tower bolts ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete : 250x10 mm.	443.00	Nos.	237.50	105212.50
20	Providing and fixing SS handles ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete :125 mm.	443.00	Nos.	171.00	75753.00
21	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :250x16 mm	18.00	Nos	157.89	2842.02



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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
22	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : 250x10 mm.	75.00	Nos.	63.60	4770.00
23	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :125 mm.	75.00	Nos.	27.46	2059.50
24	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	157.44	K.G.	358.86	56498.92
	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	118.08	K.G.	413.96	48880.40




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TENDER BOQ CIVIL WORK

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
25	Providing and fixing glazing in aluminium door, window, ventilator etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 5.0 mm thickness shutters and partitions etc. with EPDM rubber / neoprene gasket.	13.38	SQM	1001.49	13399.94
26	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge Pre-laminated particle board with decorative lamination on both sides	4.73	SQM	1035.26	4896.78
27	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS 6315 having brand logo embossed on the body/plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide palte etc. complete as per the direction of Engineer-in-charge.				
	With stainless steel cover plate minimum 1.25 mm thickness.				
	Floor Spring	6.00	No	1937.05	11622.30




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
28	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).	45.90	K.G.	383.18	17587.96
29	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 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	130.10	Sqm	1420.25	184774.53
30	Providing and fixing T-iron frames for doors , of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	1191.53	K.G.	79.52	94750.47




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
31	Mild steel or iron work of small size and sections such as holding down bolts, hold fast, tie rods, grating etc, (when not included in an overall rates) wrought to required shape as necessary for bending etc including supply fo steel and its wastage including cost of bolts, nuts if required, welding, grinding and making holes as required for completion of work but Fabrication of Grill/Stairs case railing	5107.34	KG.	65.08	332385.69
32	Mild steel or iron work of small size and sections such as holding down bolts, hold fast, tie rods, grating etc, (when not included in an overall rates) wrought to required shape as necessary for bending etc including supply fo steel and its wastage including cost of bolts, nuts if required, welding, grinding and making holes as required for completion of work but Fabrication of Z-Section fixed steel windows, including necessary steel fitting such as handles stay etc.	7933.15	KG	65.84	522318.60
33	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with 4.0 mm thick glass panes	373.57	SQM	726.23	271297.74
34	Providing and fixing fly proof stainless steel grade 304 wire gauge , to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all omplete. With 12 mm mild steel U beading	27.37	SQM	1251.67	34258.21




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
35	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with rame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	12.70	Sqm	1302.52	16542.00
36	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness .The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady] the frame.	173.25	RMT.	458.09	79364.09




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
37	Providing and fixing to existing door frames 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	55.13	SQM	2281.09	125756.49
38	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces	55.80	Sqm	2920.16	162944.93
39	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	12.75	Sqm	5026.74	64090.94




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
40	Supplying and fixing of rolling shutters of approved make of 80 x 1.25 mm (3" x 3.5" guage) cold rolled MS laths inter locked throught out their entire length and joined together at the locks and mounted on specially designed pipe shaft with brackets side guides and arrangement for inside	43.20	SQM	1087.75	46990.80
41	Providing & fixing 27.5mm long wire spring grade 2 for rolling shutters.	18.00	NOS	490.20	8823.60
42	Providing & fixing top cover for rolling shutters.	18.00	RMT	550.05	9900.90
43	P/F Fixing Ball Bearing For Rolling Shutter	18.00	NOS	291.65	5249.70
44	Providing and fixing stainless steel (Grade 304) railing made of hallow tubes, chanells, plates etc. including welding grinding buffing, polising and making corvechare (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing railing with necessary accessories and 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 assessories such as nuts, bolts, fasteners etc.	233.28	KG	588.43	137268.95




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
45	Providing and laying "brick coba" 12 mm thick laid with M-150 class brick bat coba 7.50 cm thick with gap of 15 mm to each other, over 20 mm thick base of cement mortar 1:4 cement and coarse sand mixed with water proofing compound spreading cement slurry mixed with aerelic cement concrete water proofing compound filled gaps of coba & top of coba mortar mixed with water proofing compound in 1:4 cement and coarse sand mortar finished smooth & top mashed false square 30 x 30 cm and side wall parapet shall be monotythic plaster wall upto 30 cm higher and junction and corner shall be rounded by brick ballast cement and coarse sand masonry coba with top finished plaster mixed with acetic water proofing compound @ 2% by weight & including S/o all material, labour, T&P etc complete for proper completion of work.	897.84	SQM.	864.50	776182.68
46	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	5874.94	SQM.	150.48	884060.97
47	15 mm cement plaster on rough side of single or half brick wall of mix 1:6 (1 cement: 6 coarse sand)	5289.99	SQM.	174.28	921939.46
48	12 mm cement plaster in single coat on fair side of single or half brick wall for single or half brick wall for interior plastering upto floor two level including brick wall for interior plastering upto 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 and additive. (i) 1 cement: 3 course sand in ceiling.	1992.41	SQM.	158.65	316095.85
49	15 mm cement plaster in single coat on plinth 1 cement: 4 course sand in plinth.	371.11	SQM.	190.05	70529.46
50	20 mm cement plaster in single coat on plinth 1 cement: 4 course sand	704.00	SQM.	201.40	141785.60




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
51	Add for plaster groove in plastered surface or moulding to R.C.C. projections.	5243.88	Rmt	29.21	153173.73
52	Add for plaster drip course in plastered surface or moulding to R.C.C. projections.	287.70	Rmt	29.21	8403.72
53	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	177.96	SQM.	746.13	132781.29
54	supply and fixing 6mm thick china white glazed tiles in flooring or in skirting or dado laid with 1:3 cement and approved course sand mortar finished with white cement slurry jointing and polishing complete including supply of all material and tools and plant etc. required for proper completion of the work.	570.89	SQM.	789.45	450689.11
55	Providing and laying vitrified floor tiles Equivalent brand of super quality in different size (Thickness specified by manufacturer) with water absorption make in all colors and shade laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joint with white cement and matching pigments etc. complete (Size of Tile 600 x 600 mm double charge)	1130.75	SQM.	1202.09	1359263.27




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
56	25 mm thick Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :	1379.93	SQM.	1005.10	1386967.64
57	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	140.06	SQM.	905.35	126803.32
58	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	122.44	SQM.	366.70	44898.75
59	25 mm thick C.C. flooring with 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone ballast) :	120.00	SQM.	239.40	28728.00
60	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.	13.91	SQM.	358.39	4985.20
61	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick	1429.26	RMT.	47.55	67961.31




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
62	Distempering (two coat) with oil bound distemper of approved brand and manufacture and of required shade on undecorated wall surface to give an even shade over and including a priming coat with cement primer of approved brand and manufacture such as Berger, J&N Shalimar, Asian Paints after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even with Plaster of Paris or approved synthetic material and sand papered smooth including cost of all material.	7806.88	SQM.	63.13	492848.33
63	Distempering (two coat) with DRY distemper of approved brand and manufacture and of required shade on undecorated wall surface to give an even shade over and including a priming coat with cement primer of approved brand and manufacture such as Berger, J&N Shalimar, Asian Paints after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even with Plaster of Paris or approved synthetic material and sand papered smooth including cost of all material	231.57	SQM.	40.09	9283.64
64	Finishing walls with water proofing cement paint of approved make and quality on new work with two coat to given even shed	467.32	SQM.	62.13	29034.59
65	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)	4973.18	SQM.	90.20	448580.84




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
66	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.	10978.45	Sqm	85.17	935034.59
67	Painting two coats over priming coat on steel & other metal surface upto 10 cm width or grith or small articles not exceeding 0.10 sqmt. In areas with superior synthetic enamel such as Luxol 3Hi gloss aqcolite superlac. Dulux specified finishing	1034.70	Sqm	83.22	86107.73
68	Painting two coats over priming coat on wood & other wooden surface upto 10 cm width or grith or small articles not exceeding 0.10 sqmt. In areas with superior synthetic enamel such as Luxol 3Hi gloss aqcolite superlac. Dulux specified finishing	285.60	Sqm	83.22	23767.63
69	Providing and fixing soil, waste and vent pipes : 100 mm dia Sand cast iron S&S pipe as per IS: 1729	142.10	RMT.	816.05	115960.71
70	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. For 100 mm dia pipe	48.00	each	145.26	6972.48
71	Providing lead caulked joints to sand cast iron rain water pipes and fittings: 100 mm dia Pipe	60.00	each	262.77	15766.20
72	Providing and fixing plain bend of required degree. For 100 mm dia pipe.	13.00	each	324.47	4218.11




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
73	Providing and fixing heel rest sanitary bend. For 100 mm dia pipe.	13.00	each	302.43	3931.59
74	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	467.26	SQM.	398.34	186128.35
75	Brick edging 7cm wide 11.4cm. deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 cement : 4 fine sand)	519.17	RMT.	36.24	18814.72
76	C/O Apron drain of width 150mm and depth as per required of site but minimum 150 mm with neat finish & required slope as per apporoved by E/I.	437.47	RMT.	896.82	392331.85
77	Providing /laying of light cinder filling brick ballast under floor of toilet /sunken roofs	34.88	CUM.	1187.50	41420.00
78	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	1249.50	Sqm	590.90	738329.55




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
79	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	399.36	Kg.	70.25	28055.04
80	Providing and fixing bolts including nuts and washers complete	102.40	Kg.	93.34	9558.02
81	Mild steel or Iron in heavy sizen such as trusses build up gates, record racks, roof work gates etc. Wrought to required from including drilling holes revetting and welding where necessary & their fixing required for proper completion of work.	31237.50	Kg.	71.82	2243477.25
82	Providing and fixing sheet covering over expansion joints with iron screws as per design. Aluminium fluted strips 3.15 mm thick 150 mm wide	69.00	Sqm	313.55	21634.95
83	Steel work welded in built up sections/ framed work , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	2160.00	Kg.	85.60	184896.00
84	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.	782.00	Sqm	77.23	60393.86




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
85	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC , carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer in-Charge. With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	78.20	Cum	1425.00	111435.00
86	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant . The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer incharge.	82.80	Cum	6506.41	538730.75
87	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	1.66	Cum	5031.11	8351.64
88	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	184.00	Sqm	572.09	105264.56




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
89	Providing and filling in position, blown bitumen in expansion joints	2208.00	per cm depth per cm width per m	6.63	14639.04
90	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.				
	400 mm dia	150.00	Rmt	541.41	81211.50
91	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	200 mm nominal size dia	100.00	Rmt	834.67	83467.00
92	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, onforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
	200 mm nominal size dia	50.00	Rmt	779.76	38988.00




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
93	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	12.25	CUM	478.94	5867.02
94	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-incharge.	29.20	CUM	865.12	25261.50
95	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	12.25	CUM	809.97	9922.13
96	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineerin-charge.	29.20	CUM	938.46	27403.03




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
97	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in pproved laboratory, i/c disinfection of ubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per uirement and direction of Engineer-in-charge.	50.00	Hrs.	643.25	32162.50
98	P/F of M.S. Wall Cap.	5.00	No.	950.00	4750.00
99	P/F of M.S. Bail Plug.	5.00	No.	950.00	4750.00
100	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m 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 kinds of soil (A) Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	450.00	Rmt	121.17	54526.50




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
101	Providing, laying and jointing P.V.C.pipesincluding testing of joints etc. complete :	450.00	Rmt	712.50	320625.00
102	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :With F.P.S. bricks	25.00	EACH	3759.63	93990.75
103	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	EACH	5926.29	29631.45
104	Transportation of Camp. Shifting of rig M/c & its allied equipts.	1.00	Job	47500.00	47500.00
105	Drilling of 350mm to 450mm dia hole by direct rotary rig M/c.	155.00	Rmt	2137.50	331312.50
106	Lowering of 8" Housing Pipe Threaded	68.00	Rmt	1282.50	87210.00
107	Lowering of 6" B.P. Threaded	75.00	Rmt	1045.00	78375.00
108	Lowering of 6" slotted mtr. Pipe Threaded	40.00	Rmt	1567.50	62700.00
109	P/F of 8" M.S. Socket	14.00	No.	1187.50	16625.00
110	P/F of 6" M.S. Socket	18.00	No.	902.50	16245.00
111	P/F of 8"/ 6" M.S. Reducer	1.00	No.	1900.00	1900.00
112	P/F of 8" M.S. Wall Cap.	1.00	No.	1425.00	1425.00
113	P/F of 6" M.S. Bail Plug.	1.00	No.	1425.00	1425.00
114	Strata Sample Box or Polythene Bags.	2.00	No.	2375.00	4750.00
115	P/F of Pea Gravel .	50.00	Cum	3087.50	154375.00
116	Developments by air compr. 250 P.S.I.	60.00	Hrs.	2375.00	142500.00




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
117	Development By O.P. Unit.	90.00	Hrs.	1187.50	106875.00
118	Transportaation Charges of Air Compr. & O.P. Unit.	1.00	No.	9500.00	9500.00
119	Logging Charges if required.	1.00	No.	12350.00	12350.00
120	Installation of Pump Set 17.5 H.P. K.S.B. Make with 4" M.S. Column Pipe Starter 12.5 H.P.V. Meter , A. Meter etc.	1.00	No.	213750.00	213750.00
121	Supply and laying unde ground G.I. pipe 80 mm dia from tubewell to O.H.T. (DSR18.12.8)	30.00	Rmt	605.20	18156.00
SUB HEAD:- WATER SUPPLY & SANITARY WORK					
122	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
a	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	28.00	Each	3223.16	90248.48
	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
b	W.C. pan with ISI marked white solid plastic seat and lid	2.00	Each	3151.44	6302.88
123	Providing and fixing wash basin with C.I.brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls where required :				
a	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	30.00	Each	2021.51	60645.30
124	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
b	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	12.00	Each	6849.98	82199.76
125	Providing & fixing stone slab table rubbed, edges rounded and polished of size 75 X 50cm deep and 1.8 cm thick fixed in urinal patitions by cutting chase of appropriate width with chase cutter and embedding the stone in chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregste 6mm nominal size) as per Engineer-in-charge and finished smooth				
	Granite stone of approved shade	16.00	sqm	3100.33	49605.28




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
126	Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with CI brackets and stainless steel waste with plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required.				
a	Sink without drain board				
	610X510 mm bowl depth 200mm.	3.00	Each	4126.28	12378.84
127	Providing and fixing white vitreous china laboratory sink 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	3004.61	6009.22
128	Providing & fixing PVC waste pipe for sink oncluding PVC waste fitting Complete				
	Flexible Pipe				
	32mm Dia	30.00	Each	70.73	2121.90
	40mm Dia	3.00	Each	72.91	218.73
129	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
a	Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.	36.00	Each	470.16	16925.76
b	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.(sink & urinal)	2.00	Each	492.24	984.48




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
130	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	Rectangular shape 1500x450 mm	30.00	Each	1265.83	37974.90
131	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	30.00	Each	516.61	15498.30
132	Providing and fixing toilet paper holder :				
	C.P. brass	2.00	Each	395.11	790.22
133	Providing and fixing soil, waste, vent pipes				
	Centrifugally cast (spun) iron S&S pipe				
	100mm dia cast (spun) iron S&S pipe	252.00	Rm	871.86	219708.72
134	Providing and fixing MS holder bat clamps of approved design to cast iron (spun) pipe embedded in and Including cement concrete blocks 10 x10 x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.				
	For 100mm dia. Pipe	50.00	Each	145.26	7263.00




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135	Providing and fixing heel rest sanitary bend , in Centrifugally cast (spun) iron pipe S&S				
	100mm	34.00	Each	353.16	12007.44
136	Providing and fixing bend of required degree with access door , insertion rubber washer 3mm thick, bolts and nuts complete.				
	100X100X100mm				
	Sand cast iron S&S as per IS : 3989	18.00	Each	592.61	10666.98
137	Providing and fixing PLAIN JUNCTION of required degree				
	100X100X100mm				
	Sand cast iron S&S as per IS : 3989	56.00	Each	547.39	30653.84
138	Providing and fixing terminal guard:				
	100mm				
	Sand cast iron S&S as per IS - 3989	35.00	Each	412.78	14447.30
139	Providing and fixing collar.				
	100mm				
	Sand cast iron S&S as per IS - 3989	30.00	Each	302.43	9072.90
140	Providing and lead caulked joint				
	100 Dia	174.00	Each	231.56	40291.44
141	Providing and fixing cast iron trap of self cleansing design with cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.				
	100 mm inlet and 100 mm outlet,Sand cast iron S&S as per IS: 3989	49.00	Each	933.42	45737.58
142	Painting sand cast iron / centrifugally cast iron(spun) iron soil, waste and vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc. over a coat of primer (of approval quality) for new work				
	150mm dia	250.00	Rm	36.72	9180.00




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
143	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour weighing not less than 105 gms.	30.00	Each	217.41	6522.30
144	Providing and fixing PTMT towel rail complete with brackets fixed wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	30.00	Each	514.43	15432.90
145	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall				
	15 mm nominal outer dia pipes	240.00	Rm	204.35	49044.00
	20 mm nominal outer dia pipes	150.00	Rm	236.84	35526.00
	25 mm nominal outer dia pipes	90.00	Rm	288.94	26004.60
	32 mm nominal outer dia pipes	60.00	Rm	326.04	19562.40




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S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
146	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe , including painting with anti corrosive bitumastic paint, cutting chases and making good the wall				
	15 mm nominal outer dia pipes	1960.00	Rm	290.75	569870.00
	20 mm nominal outer dia pipes	1575.00	Rm	317.16	499527.00
147	Providing and fixing G.I. pipes complete with GI fittings and clamps including cutting and making good the walls etc. External work				
	40 mm dia, nominal bore	170.00	Rm	317.44	53964.80
	50 mm dia, nominal bore	102.00	Rm	379.53	38712.06
	65 mm dia, nominal bore	68.00	Rm	498.04	33866.72
148	Providing and fixing of gun metal gate valve with CI wheel of approved quality (screwed ends)				
a	25mm dia, nominal bore	36.00	Each	407.41	14666.76
b	32 mm dia, nominal bore	26.00	Each	476.43	12387.18
c	40 mm dia, nominal bore	16.00	Each	556.23	8899.68
d	50 mm dia, nominal bore	10.00	Each	713.21	7132.10
149	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	102.00	Each	65.17	6647.34




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 उ०प्र० राजकीय निर्माण निगम लि०
 फैजाबाद-इकाई

TENDER BOQ CIVIL WORK

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
150	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet 100 mm diameter	2.00	Each	68.45	136.90
151	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work (internal work -exposed on walls)				
	15 mm nominal outer dia pipes	240.00	Rm	9.12	2188.80
	20 mm nominal outer dia pipes	150.00	Rm	10.78	1617.00
	25 mm nominal outer dia pipes	90.00	Rm	14.20	1278.00
	32 mm nominal outer dia pipes	60.00	Rm	16.82	1009.20
152	Painting GI pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality				
	40 mm dia, nominal bore	170.00	Rm	11.26	1914.20
	50 mm dia, nominal bore	102.00	Rm	13.44	1370.88
	50 mm dia, nominal bore	68.00	Rm	16.58	1127.44
153	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work				
	40 mm dia, nominal bore	170.00	Rm	68.16	11587.20
	50 mm dia, nominal bore	102.00	Rm	70.73	7214.46
	50 mm dia, nominal bore	68.00	Rm	111.63	7590.84
154	Providing and fixing G.I. union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work)				
a	15mm nominal bore	28.00	Each	156.99	4395.72
b	20mm nominal bore	19.00	Each	179.08	3402.52
c	25mm nominal bore	12.00	Each	190.10	2281.20
155	Providing and fixing C.P. brass bib cock of approved quality confirming to IS:8931				
	15mm nominal bore	30.00	Each	436.53	13095.90
156	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	7.00	Each	580.12	4060.84




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TENDER BOQ CIVIL WORK

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
157	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 a) 15 mm nominal bore.				
	15 mm nominal bore	102.00	Each	482.32	49196.64
158	Providing and fixing PTMT grating of approved quality and colour				
	Circular type				
	100 mm nominal dia	49.00	Each	46.79	2292.71
159	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1800.00	per litre	6.89	12402.00
160	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layers by ramming, watering etc. stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50m :				
	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	287.00	meter	427.79	122775.73
161	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
	150 mm diameter	117.00	meter	298.63	34939.71




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TENDER BOQ CIVIL WORK

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
162	Providing and laying cement concrete 1:5:10 (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 :				
	150 mm diameter S.W. pipe	567.00	meter	688.47	390362.49
163	Providing and fixing square-mouth S.W. gully trap grade 'A' 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				
	100x100 mm size P type				
	With F.P.S. Bricks class designation 75	18.00	each	1492.69	26868.42
164	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	250 mm dia rcc pipe	70.00	meter	445.17	31161.90




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TENDER BOQ CIVIL WORK

S.N.	DESCRIPTION OF ITEM OF WORK	TOTAL QTY	UNIT	RATE	AMOUNT Rs
165	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 grade				
	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
	With F.P.S. bricks with class designation 150	12.00	each	8081.65	96979.80
166	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
	With F.P.S. bricks class designation 150	3.00	each	17389.23	52167.69
167	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design With 20x20 mm square bar	7.00	Nos	261.73	1832.11
168	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg	2.00	Nos.	2607.89	5215.78
				TOTAL	46005866.41
			SAY	460.06	LACS




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**BILL OF QUANTITY OF
INDUSTRIAL TRAINING INSTITUTE (I.T.I.)
AT ITWA, SIDDHARTHANAGAR (U.P)**

**BILL OF QUANTITY OF ELECTRICAL WORK- (INTERNAL ELECTRICAL, FIRE
FIGHTING & HPMV LAMP)**

S No	Description of Item	Unit	Qty	Rate	Amount (Rs)
	SUB HEAD:- INTERNAL ELECTRICAL WORK				
1	Supply and fixing of Industrial bulk head fitting of cast aluminium body ,having heat resistance glass cover and MS galvanized wire guard suitable for and with single 9 watt CFL with mounting assembly, Complete in all respect.	each	30	722.95	21688.5
2	Supply and fixing of factory wired Box type Decorative mirror light fitting with electronic ballast suitable for 1 no.18 watt tube lamp with 1x18 w Tube lamp, Complete in all respect.	each	12	1062.1	12745.2
3	Supply and fixing of recess/surface/pendent mounting round 12 W LED Down lightit having powder coated die cast aluminium housing with heat shink,diffuser/reflector and driver set.	each	15	1900	28500
4	Supply and fixing of factory wired Box/channel type T-5 energy saver without reflector and end cover suitable for 1 no.28 watt T-5 lamp with 1x28 watt T-5 lamp. Complete in all respect.	each	73	1422.15	103816.95
5	Supply & fixing of Batton/Angle holder including making connection etc. as required.	each	17	28.5	484.5
6	Supply & fixing of single wall light bracket made of brass on matching polished MDFEG board brass including connection etc. as required.	each	3	820.8	2462.4
7	Supply and fixing of 40 Watt surface mounting LED Square light Fitting having powder coated die cast aluminium housing with heat sink and diffuser/reflector of polycarbonate material and driver set, Complete in all respect.	each	106	5225	553850



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8	Supply and fixing of 55 Watt surface mounting LED Square light Fitting having powder coated die cast aluminium housing with heat sink and diffuser/reflector of polycarbonate material and driver set, Complete in all respect.	each	39	4750	185250
9	Supply of AC 1200mm Sweep, 230/250 Volts, 50 Hz ceiling fan without regulator, standar down rod, blades etc. complete as required 3 star Rating	each	95	1482	140790
10	Supply of AC 1400mm Sweep, 230/250 Volts, 50 Hz ceiling fan without regulator, standar down rod, blades etc. complete as required 3 star Rating	each	26	1767	45942
11	SITC of AC 230 mm Sweep, 230/250 Volts, 50 Hz fresh air/ ex fan with blades,cover etc. complete as required	each	4	3705	14820
12	SITC of AC 300 mm Sweep, 230/250 Volts, 50 Hz exhaust fan (light Duty) with blades,cover etc. complete as required	each	33	3705	122265
13	Supply of AC 450 mm Sweep, 230/250 Volts, 50 Hz heavy duty exhaust fan with blades,cover etc. complete as required	each	1	4275	4275
14	Supply & fixing of call Bell of approved make on polished MDFEG/Teak ply board including making connection etc. as required.	each	3	107.35	322.05
15	Wiring point for light with 1.0 sq.mm FR PVC insulated multistrand single core copper conductor cable in heavy gauge rigid steel conduit pipe Partly concealed in the wall and partly Laid in slab ,complete with 1.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit , piano type switch & ceiling rose /angle/batten holder on 3mm thick , phenolic laminated backelite sheet,etc.complete in all respect,as directed, including matching colour wash.	each	167	570	95190




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16	Wiring point for fan/fresh air fan (light duty exhaust fan) with 1.0 sq.mm FR PVC insulated multistrand single core copper conductor cable in heavy gauge rigid steel conduit pipe Partly concealed in the wall and partly Laid in slab ,complete with 1.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit , piano type switch & ceiling rose /angle/batten holder on 3mm thick , phenolic laminated backelite sheet,etc. complete in all respect,as directed, including matching colour wash.	each	70	669.75	46882.5
17	Wiring point for plug with 1.0 sq.mm FR PVC insulated multistrand single core copper conductor cable,with 5 amp flush type switch and 3 pin socket on existing board ,complete with 1.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire.etc.complete in all respect,as directed, including matching colour wash.	each	48	133	6384
18	Wiring point for plug with 1.0 sq.mm FR PVC insulated multistrand single core copper conductor cable in riggid steel conduit pipe Partly concealed in the wall and partly Laid in slab ,complete with 1.0 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit ,piano type switch & socket etc.complete in all respect,as directed, including matching colour wash.	each	132	293.55	38748.6
19	Wiring point for call bell with 1.0 sq.mm FR PVC insulated multistrand single core copper conductor cable in PVC conduit pipe Partly concealed in the wall and partly Laid in slab ,complete with 1.0 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit ,piano type bell push switch or two pin socket etc.complete in all respect,as directed, including matching colour wash.	each	8	547.2	4377.6
20	Wiring point for two ways light point with 1.0 sq.mm FR PVC insulated multistrand single core copper conductor cable in heavy gauge rigid steel conduit pipe Partly concealed in the wall and partly Laid in slab ,complete with 1.0 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit ,two number two ways piano type switch & ceiling rose/angle/batten holder on 3mm thick , phenolic laminated backelite sheet,etc.complete in all respect,as directed, including matching colour wash.	each	6	691.6	4149.6




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TENDER BOQ ELECTRICAL WORK

21	Wiring point for Street Light /heavy duty exhaust fan /In-Line Fan with 1.5 sq.mm FR PVC insulated multistrand single core copper conductor cable in heavy gauge rigid steel conduit pipe Partly concealed in the wall and partly Laid in slab complete with 1.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit ,15 amp piano type switch & ceiling rose on 3 mm thick phenolic laminated bakelite sheet etc.complete in all respect,as directed, including matching colour wash.	each	13	855.95	11127.35
22	Supply and fixing of power plug with 20A/250V flush type Moduler switch and 5 Pin 20A/250V flush type universal Moduler socket in suitable Conceled MS Box including supply of all material, labour,T&P etc.required for proper completion of work.	each	62	524.4	32512.8
23	Supply and fixing of 240 volts 'C' series 40-63amp DP miniature circuit breaker (10 K A) in with sheet steel encloser box, complete with connections as required.for Air conditioning/Main incoming.	each	1	1425	1425
24	Supply and fixing Telephone socket outlet on the existing switch box/ cover including connection as required.(on existing moduler plate)	each	17	87.4	1485.8
25	Supply and fixing Lan socket outlet on the existing switch box/ cover including connection as required. (on existing moduler plate)	each	40	87.4	3496
26	Supply & wiring of submains with 2 nos.1.5 sq.mm FR PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge rigid steel conduit concealed in wall, complete,with 1 no, 1.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit,complete in all respects including maching colour wash etc.complete in all respect.	rmt	1091	150.1	163759.1
27	Supply & wiring of submains with 2 nos.2.5 sq.mm FR PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge rigid steel conduit concealed in wall, complete,with 1 no, 1.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit,complete in all respects including maching colour wash etc.complete in all respect.	rmt	1905	166.25	316706.25




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TENDER BOQ ELECTRICAL WORK

28	Supply & wiring of submains with 2 nos.4 sq.mm FR PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy guage PVC conduit concealed in wall, complete,with 1 no, 2.5 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit,complete in all respects including machining colour wash etc.complete in all respect.	rmt	1465	191.9	281133.5
29	Supply & wiring of submains with 2 nos.6 sq.mm FR PVC insulated 1100 V grade multistrand single core copper conductor cable in 25 mm dia heavy gauge rigid steel conduit concealed in wall, complete,with 1 no, 4.0 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit,complete in all respects including machining colour wash etc.complete in all respect.	rmt	135	218.5	29497.5
30	Supply & wiring of submains with 4 nos.10 sq.mm FR PVC insulated 1100 V grade multistrand single core copper conductor cable in 32 mm dia heavy guage rigid steel conduit concealed in wall, complete,with 2 no, 6 sq mm FR PVC insulated multistrand copper conductor cable as earth wire drawn in side the conduit,complete in all respects including machining colour wash etc.complete in all respect.	rmt	850	599.45	509532.5
31	Supply fixing & concealing of 20 mm dia 16SWG (1.5mm)thick rigid steel conduit in the wall including cutting of brick laying of conduit & fixing it with MS hooks & then plastering.with cement, sand,mortar finished to the level,with matching colour wash including cost of proper threading of conduit and providing necessary socket ,bend & chucknuts,as directed by engineer incharge with the supply of material labour and T&P required for proper completion of work.	MTR	655	92.15	60358.25
32	Supply fixing & concealing of 25 mm dia 16SWG (1.5mm)thick rigid steel conduit in the wall including cutting of brick laying of conduit & fixing it with MS hooks & then plastering.with cement, sand,mortar finished to the level,with matching colour wash including cost of proper threading of conduit and providing necessary socket ,bend & chucknuts,as directed by engineer incharge with the supply of material labour and T&P required for proper completion of work.	MTR	1470	105.45	155011.5




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TENDER BOQ ELECTRICAL WORK

33	Supply and fixing of flush/surface mounting 4ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge	each	3	1900	5700
34	Supply and fixing of flush/surface mounting 6ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge	each	8	3325	26600
35	Supply and fixing of flush/surface mounting 8 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge	each	2	1316.7	2633.4
36	Supply and fixing of 240 volts 'C' series 40-63amp TPN miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required.	each	13	1910.45	24835.85
37	Supply and fixing of 240 volts 'C' series 40-63amp DP miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required.	each	2	968.05	1936.1
38	Supply and fixing of 240 volts 'L' series 6-32 amp SP miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required.	each	196	199.5	39102
39	Supply and burying of 600mm x 600 mmx 6mm G.I. plate, vertically for earthing with its top atleast 3 mts. below ground level complete with 20mm G.I.pipe and funnel for watering and two earthing leads of No.8to10SWG G.I.wire in 15mm diaG.I. pipe upto switch board (from apron to switch board the cost of G.I. pipe and G.I. wire will be extra) 30cm. square C.I. frame with hinged cover, masonry housing, alternate layers/of charcoal/ coke and salt at least 150mm thick around etc. complete in all respects.	each	8	4122.05	32976.4




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TENDER BOQ ELECTRICAL WORK

40	Supply and laying of 25mm x 3mm G.I. strip from earth electrode directly in the ground as required complete in all respects.	rmt	800	71.25	57000
41	Supply and fixing of two number 8 SWG G.I. wire in 15mm dia. G.I. pipe for earthing, laid in ground or in wall duly concealed including the cost of cement, sand, labour, T&P other material required for proper completion of work as directed at side.	rmt	600	146.3	87780
42	Supply and fixing of 50 mm dia G.I. pipe laid in ground or in wall duly concealed including the cost of cement, sand, labour, T&P other material required for proper completion of work as directed at side.	rmt	40	427.5	17100
43	Supply and fixing of 100 mm dia G.I. pipe laid in ground or in wall duly concealed including the cost of cement, sand, labour, T&P other material required for proper completion of work as directed at side.	rmt	40	895.85	35834
44	Supplying and drawing 4 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmoured telephone/PAS cable in the existing surface/recessed steel/PVC conduit as required.	rmt	830	25.65	21289.5
45	Supplying and drawing UTP 4 pair CAT 6 LAN cable in the existing surface/recessed steel/PVC conduit as required.	rmt	1850	31.35	57997.5
46	Supplying and drawing Co axial T V cable, RG-6 grade, 0.7mm solid copper conductor, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/recessed steel/PVC conduit as required.	rmt	300	21.85	6555
47	Supply and fixing Two module G.I box awlong with moduler base with cover plate for telephone & T.V outlet	each	53	157.7	8358.1




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TENDER BOQ ELECTRICAL WORK

48	Four module	each	121	185.25	22415.25
49	Six module	each	48	235.6	11308.8
50	Eight module	each	45	272.65	12269.25
51	Twelve module	each	80	317.3	25384
52	Supply and Fixing of Danger Board fabricated from 10 gauge M.S. Sheet as per I.E. Rules	each	5	58.9	294.5
53	Supply & Fixing of MCB blanking plate for DB	each	30	6.65	199.5
54	Supply & Fixing of Moduler switch blanking plate for Moduler switch board	each	70	21.85	1529.5
55	Supply Installation testing & commissioning of Floor L.T. Control Panel, indoor cubical type, dust & vermine proof, floor mounting, free standing, dead front construction, made of 16 SWG CRCA sheet steel, duly Powder Coated having separate instrument chamber comprising of flush type voltmeter, amperemeter, selector switches CTs, indicating lights, toggle switch, protection fuses on incoming & all outgoing of 100 A, & above shall have amperemeter, selector switches & CTs, suitable rating PVC sleeved aluminium bus bars and complete with the following switchgears, including connections & interconnections etc. Incoming- 100 amp FP MCCB Outgoing-63 amp MCB- 2no, 32 amp MCB- 2no	each	3	221146	663437.25




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TENDER BOQ ELECTRICAL WORK

56	Supply and Laying of 1800*900*12mm thick chequerd rubber matting of tested quality. complete in all respect. as per I.E. Rules	each	3	2203.05	6609.15
57	Supplying and laying of aluminium conductor PVC insulated armoured served sheathed cable 1100 volts grade at the depth of 750 mm bellow ground level over a cushion of 75 mm thick sand all around and protected with burnt bricks on side and on top .On surface the cable run shall be fixed on MS clamps etc.of suitable size or as directed by the Engineer-Incharge ,complete in all respect.The armouring of the cable shall be properly connected with the earth conductor by clamps etc.		0		
	size 70 sq mm x 3-1/2core	rmt	800	693.5	554800
	size 16 sq mm x 4 core	rmt	300	327.75	98325
	size 16 sq mm x 2 core	rmt	300	264.1	79230
	size 6 sq mm x 2 core	rmt	200	227.05	45410
58	Supply and fixing of brass nickle plated compression gland for pvc insulated & armoured served sheaththd ,underground cable including rubber ring etc. complete in all respect. Thearmouring of the cable shall be properly connected with the earth as per direction of engineer -incharge.		0		




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TENDER BOQ ELECTRICAL WORK

	size 70 sq mm	each	24	143.45	3442.8
	size 16 sq mm	each	24	85.5	2052
	size 6 sq mm	each	8	61.75	494
59	Supply and fixing of plain or pin type copper tin plated cable socket (lug) to cable leads for pvc insulated & armoured cable insulating with tape and making connection. complete in all respect as per direction of engineer -incharge.				
	size 70 sq mm	each	96	76	7296
	size 16 sq mm	each	96	18.05	1732.8
	size 6 sq mm	each	32	14.25	456
60	Erection and testing of ceiling fan and regulator for room height upto 3.5mts. including supply of 3mm thick G.I. down rod 19mm dia duly painted, complete in all respects.	each	121	112.1	13564.1
61	S/F of hexagonal fan box with hexagonal side of approx 80mm in length fabricated from 16SWG.M.S. sheet incorporating 10mm dia, M.S. round barduly bent for supporting fan hanger dully painted withred oxide and screwing arrangement with wiring conduit laid in the R.C.C. roof before concreting along with supply of all materials, labour T & P etc., for proper completion of work.	each	121	106.4	12874.4
62	Supply fixing of electronic fan regulator 120-280 V. ISI marked, on the existing switch board including making connetion, required material, labour T/P etc for proper completion of work to the satisfaction of Engineer in charge of work.	each	121	271.7	32875.7
63	Add for light /fan point with moduler type switch in place of piano type switch.	each	96	103.55	9940.8
64	Add for 2 way light point with moduler type switch in place of piano type switch.	each	7	188.1	1316.7
65	Add for plug point with moduler type switch in place of piano type switch.	each	126	178.6	22503.6




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66	Add for HPMV/Exhaust Fan point with moduler type switch in place of piano type switch.	each	104	104.5	10868
67	Add for call bell point with moduler type switch in place of piano type switch.	each	5	115.9	579.5
68	Erection and testing of exhaust fan on the existing hole with suitable size rag bolt nut & washer etc. complete in all respects.	each	3	102.6	307.8
69	Making hole in the wall for exhaust fan and finishing properly. complete in all respects.	each	3	102.6	307.8
70	Supply and fixing of 16 gauge MS drum duly painted including macking hole in the wall for exhaust fan and finishing propely complete in all respect.	each	3	592.8	1778.4
71	Supply and fixing of single phase multifuntional electronic energy meter 10 to 60 Amp. Capacity fitting in integral box on wall complete in all respect.	each	2	2351.25	4702.5
72	Supply and fixing of Three phase multifuntional electronic energy meter 10 to 60 Amp. Capacity fitting in integral box on wall complete in all respect.	each	1	4275	4275
73	Supplying, installation & testing of 7.0 m high octagonal GI pole with single arm as per approved sample made from 3 mm sheet steel (Grade S 355 J0) with top diameter as 75mm and bottom dia as 150mm and base plate of 240x240x16 mm with suitable slot shaped holes for mounting the same on a shallow foundation, GI weather proof junction box with 16A SP MCB, loop-in-loop out terminals for 2nos. 4Cx16 sq.mm YWY cables and 3x2.5 sq.mm copper conductor from junction box to fitting and connected accessories as required etc. Contractor to include the cost of RCC foundation for pole as per structural detail.	Nos.	28	18905	529340
74	Supply, installation & testing of LED street light fixture having sealed optics with vibration resistant design including 70 W lamp & IP-65 degree of protection complete with controlgear box, including all accessories and PF improvement capacitors equivalent to Philips Cat Ref. BRP410LED PW 072 MR SG S1 PSU GR	Set	28	12967.5	363090




संस्था प्रमुख/प्रमुख निमित्त
सिन्धुवाट-बुधवार

TENDER BOQ ELECTRICAL WORK

75	supply and fixing of 40 amp TPN automatic street light cubicle control pannel with anti corrosive alkali and acid proof paint consisting of time switch TSO 100 seeries with contactors ,HRC fuse,isolating switch,metering instrument,and instrument box with CTs etc.complete in all respect.	Set	2	30050.4	60100.8
	SUB HEAD:- FIRE FIGHTING WORKS				
	Hand Appliances				
76	Supplying and fixing ABC powder based MAP Fire Extinguishers 9.0 Kg. Capacity with 5 years warranty,which will works for A,B&C classes of fire, easy snap safty seal ,state of -the- art magnetic pressure gauge,Instalart,controllable discharge mechanism,EPDM rubber hosepipe.Conforms to ISI standards,CE certified and ISO 9001certified. Make: Cease Fire/Equivalent.	Nos	8	8664	69312
77	Supplying and fixing co2 type Fire Extinguishers 4.5 Kg. Capacity with 5 years warranty,which will work for all classes of fire, easy snap safty seal ,state of the art magnetic pressure gauge, Instalart,controllable discharge mechanism,EPDM rubber hosepipe. Conforms to ISI standards,CE certified and ISO 9001certified. Make: Cease Fire/Equivalent.	Nos	4	9380.3	37521.2
78	Hose Cabinet (External)				
	Supplying, erecting, testing and commissioning hose cabinet (size of cabinet shall be as per NBC/TAC norms) suitable for outdoor installation made out of 14 SWG MS sheet, glass fronted door, sloping canopy on top (with 150 mm extension on all sides) including painting with scarlet red enamel paintetc. consisting of:				
	2 Nos. 15 Mtrs. length 63 mm dia RRL hose with couplings on either end.				
	1 No. 63 mm dia instantaneous type gun metal branch pipe and 16 mm dia nozzle.	Each	4	28614	114456

पञ्जाब राज्य सरकार
पञ्जाब-इलाहाबाद

TENDER BOQ ELECTRICAL WORK

79	External Hydrant				
	Supplying, erecting testing & commissioning external hydrants consisting of:				
	80 mm dia MS pipe of 2.2 Mtr. length (1 Mtr. below ground & 1.2 mtr above ground).				
	1 No. 63 mm dia oblique female instantaneous pattern gun metal landing valve with blank cap and chain.				
	Brick pedastal of 550mm above ground and 230mm below ground including 100mm 1:2 PCC at the bottom.	Each	4	14650.9	58603.6
	Pumps				
80	Installation, testing & commissioning of electric driven fire pumps suitable for automatic operation consisting of the following (as per specification).				
	Horizontal split casing single/ multistage, single/ multioutlet pumping set complete with bronze impeller with C.I. body, SS shaft / CS shaft and sleeve and connected by a flexible coupling to a totally enclosed fan cooled squirrel cage induction motor Mounted on common bed plate of fabricated mild steel channel with cushy foot mounting with all pump accessories complete as per specification including pressure gauges, mechanical seal, lubricated grease bearing, gun metal isolation valves etc.				
	Motor to be suitable for 415V, 50Hz, AC supply of required H.P (or as per pump efficiency) rating for the above pumps. Motor shall accept +/- 10% variation in voltage and +/- 3% variation in frequency.				
	Suitable reinforcement cement concrete pump foundation of 1:2:4 ratio (1 cement: 2 fine aggregate: 4 coarse sand) complete as per requirements including foundation bolts, washers as required. foundation shall be finished with a coat of neat cement with 50x50x3 mm thick M.S. angle edging and foundation shall be painted with enamel paint.				




सहायक अभियंता विभाग
राजमहल-बनारस

TENDER BOQ ELECTRICAL WORK

a)	Capacity 2850 LPM at 7 Kg/cm ² delivery pressure for Fire Hydrant Network.	Each	1	237500	237500
	Type : Horizontal Split casing centrifugal suction type				
	Speed (rpm) : 2900				
	Capacity : 2850 lpm				
	Head : 70 m				
b)	Capacity 180 LPM at 7 Kg/cm ² (Jockey Pump).	Each	1	76000	76000
	Type : End suction type.				
	Speed (rpm) : 2900				
	Capacity : 180 lpm				
	Head : 70 m				
81	Providing and fixing drainage provision for the Down comer with necessary 40mm dia pipe, ball valve etc. as required, maximum length of pipe shall be 6 Mtr.	No.	4	6686.1	26744.4
82	External Hydrant				
	Supplying, erecting testing & commissioning external hydrants consisting of:				
a)	80 mm dia MS pipe of 2.2 Mtr. length (1 Mtr. below ground & 1.2 mtr above ground).				
b)	1 No. 63 mm dia oblique female instantaneous pattern gun metal landing valve with blank cap and chain.				
c)	Brick pedestal of 550mm above ground and 230mm below ground including 100mm 1:2 PCC at the bottom.	Each	4	11400	45600
83	Constructing masonry chamber 90 x 90 x100 cm. inside with 75 class designation brickwork in cement mortar 1:5 (1 cement : 5 fine sand) for sluice valve with CI surface box 100 mm top dia. 180 mm bottom dia. And 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1 :5 :10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size and inside plastering with 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with FPS bricks	Each	1	11849.4	11849.35
	Piping				




आर.डी. राजकीय विद्यालय, विना, वि.
विजयवाड-इकाई

TENDER BOQ ELECTRICAL WORK

84	Supplying, laying, fixing, testing and commissioning class C MS pipe including all necessary pipe fittings including excavation of trenches at 750 mm depth (minimum) providing CC bedding/ pedestals back filling of trench etc. complete in all respects. The exposed piping will be provided with necessary steel brackets and hardware for fixing on walls/slabs. The exposed piping shall be painted with scarlet red enamel paint. The pipes buried in ground shall be painted with anticorrosive primer, two coats of hot enamel paint and 4mm thk polycote.				
	INTERNAL PIPING (ABOVE GROUND)				
a)	150 mm dia	Mtr	200	2185	437000
b)	100 mm dia	Mtr	40	1710	68400
c)	80 mm dia	Mtr	40	1425	57000
d)	65 mm dia	Mtr	40	1140	45600
	Piping Specials				
85	Supplying, erecting, testing and commissioning CI double flanged gate valves non return valves stainers of following sizes confirming to IS specifications.				
a)	150 mm dia Sluice valve	Nos	2	14250	28500
b)	100 mm ø Gunmetal Non Return valve	Nos	2	12350	24700
c)	80mm dia butterfly valve	Nos	4	3800	15200
d)	65mm dia butterfly valve	Nos	8	2850	22800

G.Total 7406584.75

Say Rs. 74.07 Lacs




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