

B.O.Q FOR TENDER

(4)

NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) &
RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)

FORM - 'J'

Sl. No.	Description of Items	Qty.	Unit	Rate	Amount (Rs. In Lacs)	
1	Abstract of Cost (P-06)				1002.06	
	Total :-				1002.06	Lacs
2	LESS @5% FOR COMPETITIVE PRICE EFFICIENCY	1002.06	@	-5.00%	-50.10	
	Total				951.96	Lacs
F	LIFT WORK (P-96)	As per Detail attached			32.37	
19	SITC of Silent Type DG Sets (P-98)	63.00	KVA	8669.14	5.46	
					989.79	Lacs

[NOTE:- GST Will be Paid extra as applicable]

[TENDER VALUE]

(Signature)

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(Signature)
इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

B.O.Q of Rs. 989.79 Lacs , Checked as per T.S NO. 6807 dt. 07.05.2026

(Signature)
18.05.2026

J.E HO(GEM)

(Signature)
18.05.26
JE HO (Gem)
(Electri).

(Signature)
18.05.2026
AE

(Signature)
18.05.2026
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**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) &
RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**


ABSTRACT OF COST

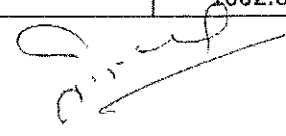
S.N.	DESCRIPTION OF ITEM	QTY	UNIT	RATE	AMOUNT (LACS)
1	ADMINISTRATIVE BLOCK				
A	CIVIL WORKS [UPTO PLINTH] (P-08)	As per Detail attached			128.87
B	CIVIL WORKS [ABOVE PLINTH] (P-18)	As per Detail attached			598.36
C	PLUMBING WORKS (P-23)	As per Detail attached			23.19
D	ELECTRICAL WORKS (P-32)	As per Detail attached			65.62
E	FIRE FIGHTING WORKS (P-40)	As per Detail attached			38.90
	TOTAL-1				854.94
	EXTERNAL SITE DEVELOPMENT				
1	SEPTIC & SOAKPIT TANK (100 users) (P-42)	1.00	NOS	318617.58	3.19
2	BOUNDARY WALL (P-43)	326.99	RMT	13365.50	43.70
3	ENTRANCE GATE 6.0 M WIDE (P-46)	1.00	NOS	167260.38	1.67
4	ENTRANCE GATE 15.0 M WIDE (P-48)	1.00	NOS	334879.50	3.35
5	STORM WATER DRAIN (300x450MM) (P-49)	150.00	RMT	2092.70	3.14
6	C.C. ROAD (P-50)	1177.19	SQM	1542.28	18.16
7	PARKING & INTERLOCKING (P-51)	192.50	SQM	1147.49	2.21
8	RAIN WATER HARVESTING (P-57)	1.00	NOS	570086.61	5.70
9	DEEP TUBEWELL (P-59)	1.00	JOB	655916.86	6.56
10	PUMP ROOM (P-60)	1.00	JOB	312000.00	3.12
11	EXTERNAL LIGHTING & TRANSFORMER (P-69)	AS PER ATTACHED			13.66
12	EXTERNAL SEWAGE SYSTEM (P-76)	1.00	JOB	315423.74	3.15
13	EXTERNAL WATER SUPPLY (P-76)	1.00	JOB	29196.46	0.29
14	HOSE WASHING LINE (P-80)	1.00	NOS	108606.51	1.09
15	U.G. TANK (100 KL) (P-82)	1.00	NOS	1290188.76	12.90
17	ELECTRICAL SUB STATION VCB ROOM (P-83)	1.00	NOS	542963.55	5.43

(अवलोकन अधिकारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

18	EARTH FILLING IN CAMPUS (P-92)	5771.06	CUM	330.00	19.04
19	DG SET PLATFORM (P-93)	1.0	NOS	36126.37	0.36
20	TRANSFORMER PLATFORM (P-94)	1.0	NOS	40000.00	0.40
	TOTAL				147.12
	G. TOTAL				1002.06


 (अल-आसिफ अंसारी)
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 निर्माण इकाई, कानपुर


 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०,
 निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITIES FOR ADMINISTRATIVE BUILDING (G+6) UPTO P.L.

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	1364.95	cum	195.21	266451.89
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing	88.97	cum	1592.65	141697.22
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	138.65	cum	5108.49	708316.32
4	RCC UPTO PL				
	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.				
	All works upto plinth level				
A	Concrete of M25 grade with minimum cement content of 330 kg /cum	590.96	cum	7127.85	4212274.24
B	(Columns)	19.33	cum	7127.85	137781.34
C	(Plinth Beam)	37.98	cum	7127.85	270715.74
D	(Lift Wall)	4.42	cum	7127.85	31505.10
5	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundations, footings, bases of columns, etc. for mass concrete	114.08	sqm	294.08	33548.65
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	38.42	sqm	631.81	24274.22
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	334.35	sqm	552.24	184641.44
	Columns, Pillars, Piers, Abutments, Posts and Struts	161.08	sqm	720.90	116122.57
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	48.02	cum	5348.65	256842.17
7	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate (25mm nominal size derived from natural sources)	59.08	sqm	308.11	18203.14

अपर अभियंता (जी)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियंता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
8	Providing & 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.	59.08	sqm	109.60	6475.17
9	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and around the column pitwall trench 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:- Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	559.42	sqm	232.51	130070.74
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	760.98	qtl	8087.94	6154760.58
11	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	79.80	sqm	308.78	24640.64
12	40 mm thick cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of size 20 mm and below) by laid over base concrete finished with floating coat of neat cement (base concrete to be paid separately) including fixing of glass strips.	104.94	sqm	460.60	48335.36
13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick	262.35	metre	68.81	18052.30
14	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)	153.21	metre	44.58	6830.57
15	Making drain along with the apron. (150X150 mm)	153.21	metre	623.87	95583.12
				TOTAL	12887122.52
				SAY IN LACS	128.87

(अले-आसिफ अंसारी)
अवर अभियन्ता (जेम)

उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Shubh

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

कैल
इकाई प्रभारी

उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITIES FOR ADMINISTRATIVE BUILDING (G+6) ABOVE P.L.

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
1	RCC ABOVE PL				
A	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.				
	All works above plinth level upto floor V level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum				
	COLUMN				
	Ground floor	26.21	cum	7,394.56	193811.49
	First floor	30.46	cum	7,394.56	225238.38
	S.F	30.46	cum	7,394.56	225238.38
	T.F	28.87	cum	7,394.56	213481.03
	F.F.	28.87	cum	7,394.56	213481.03
	FIFTH.F	28.87	cum	7,394.56	213481.03
	SIXTH .F	28.87	cum	7,661.27	221180.97
	TERRACE	12.37	cum	7,661.27	94769.96
	RCC WALL	9.52	cum	7,661.27	72935.33
B	Lintels				
	Ground floor	5.01	cum	7,394.56	37032.71
	First floor	6.12	cum	7,394.56	45264.89
	S.F	8.07	cum	7,394.56	59671.79
	T.F	8.44	cum	7,394.56	62443.72
	F.F.	6.06	cum	7,394.56	44804.69
	FIFTH.F	6.06	cum	7,394.56	44804.69
	SIXTH .F	6.06	cum	7,661.27	46420.73
	TERRACE	5.63	cum	7,661.27	43095.19
C	Slabs				
	Ground floor	51.46	cum	7,394.56	380547.48
	First floor	78.42	cum	7,394.56	579905.15
	S.F	69.84	cum	7,394.56	516420.32
	T.F	52.87	cum	7,394.56	390958.67
	F.F.	52.87	cum	7,394.56	390958.67
	FIFTH.F	52.87	cum	7,661.27	405059.96
	SIXTH .F	59.26	cum	7,661.27	454013.59
	TERRACE	23.66	cum	7,661.27	181291.36
D	Beams				
	Ground floor	31.59	cum	7,394.56	233594.24
	First floor	42.23	cum	7,394.56	312272.39
	S.F	45.41	cum	7,394.56	335787.10
	T.F	44.27	cum	7,394.56	327357.29
	F.F.	44.27	cum	7,394.56	327357.29
	FIFTH.F	44.27	cum	7,661.27	339164.59

अल-आलिक अंगरी
अवर अभियन्ता (निर्माण)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

उद्देश्य अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
	SIXTH .F	44.27	cum	7,661.27	339164.59
	Terrace floor	14.77	cum	7,661.27	113157.01
		1028.29		-	
2	Centering and shuttering including strutting, propping etc. and removal of form for :			-	
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	95.27	sqm	631.81	60195.26
	Suspended floors, roofs, landings, balconies and access platform	3124.73	sqm	695.37	2172841.11
	Shelves (Cast in situ)	92.27	sqm	695.37	64162.73
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	3717.51	sqm	552.24	2052977.22
	Columns, Pillars, Piers, Abutments, Posts and Struts	1756.23	sqm	720.90	1266071.70
	Weather shade, Chajjas, corbels etc., including edges	165.31	sqm	713.25	117908.00
	Stairs, (excluding landings) except spiral-staircases	180.06	sqm	573.63	1,03,288.32
3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)			-	
	G.F.	62.09	cum	6,828.78	423980.17
	F.F.	79.83	cum	6,828.78	545121.84
	S.F.	87.95	cum	6,828.78	600621.66
	T.F.	109.73	cum	6,828.78	749305.56
	F.F.	90.29	cum	6,828.78	616546.56
	FIFTH.F	90.29	cum	6,828.78	616546.56
	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.			-	
	SIXTH .F	90.29	cum	6,955.89	628023.08
	TERRACE	66.04	cum	6,955.89	459334.82
4	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand)			-	
	G.F.	26.53	cum	7,007.56	185902.69
	F.F.	35.95	cum	7,007.56	251926.40
	S.F.	56.89	cum	7,007.56	398668.04
	T.F.	48.19	cum	7,007.56	337702.58
	F.F.	48.19	cum	7,007.56	337702.58
	FIFTH.F	48.19	cum	7,007.56	337702.58
				-	
	SIXTH .F	48.19	cum	7,134.71	343830.08
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	1619.33	qtl	8,087.94	13097049.78
7	Providing and fixing Stainless Steel Sliding Door Bolt of approved quality & make with necessary screws etc all complete. 250x16 mm.	185.00	each	502.55	92971.75
8	Providing and fixing Stainless Steel Tower Bolt of approved quality & make with necessary screws etc all complete.				
	250x10 mm.	185.00	each	400.25	74046.25
	150x10 mm.	185.00	each	269.65	49885.25
9	Providing and fixing Stainless Steel handles of approved quality & make with necessary screws etc all complete. 125 mm.	370.00	each	89.39	33074.70

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(अमर)
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
10	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	75.00	each	203.57	15267.54
11	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	75.00	each	737.29	55296.67
12	Providing and fixing ISI marked 25 mm cup board shutters with 60mmx40mm sal wood frame work, 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 including decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish on front face with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, also including cost of adhesive of approved quality. Including cost of Handle, Lock ISI marked & stainless steel soft closing spring with necessary screws Complete in all respect.	201.18	sqm	3412.77	686581.07
13	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:				
A	35 mm thick with both side 1.0 mm thick leminations including ISI marked Stainless Steel butt hinges with necessary screws	283.92	sqm	3,140.12	891544.13
14	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	283.92	sqm	346.73	98442.99
15	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)	4345.95	kg	146.39	636183.65
16	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) WITH FRAME AND GRILL	10956.83	kg	146.39	1603919.27
17	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with 4.0 mm thick glass panes	199.22	sqm	798.41	159054.83

(अन-आवेदन राशि)
अदर अभियन्ता (जंग)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
18	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete : 20 mm dia	320.96	Rmt.	294.95	94,665.74
19	Providing and fixing stainless steel (Grade 304) railing made of hallow tubes, chanells, plates etc. including welding grinding buffing, polishing 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.	5734.87	kg	579.24	3321879.00
20	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	199.22	sqm	850.08	169348.24
21	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :35 mm thick shutters.	89.67	sqm	3,638.86	326296.77
22	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	43.79	sqm	4,352.83	190588.60
23	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120gm/ m²) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96Kg/m³ . The frame will have a provision of G.I. Anchor fastners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter . The frame shall be finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Cost of SS ball bearing hinges is excluded)	156.00	metre	1,652.01	257713.61

(अल-असिफ अल-सयि)
अवर अभियन्ता (जेम)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
24	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m ²) duly filled mineral wool insulation having density min 96 kg/ m ³ and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-charge (panelling to be paid for seperately)	98.28	sqm	9,012.53	885751.10
25	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc. with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m ²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c, including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape kerafix 2000 of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-incharge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The glass should be manufactured in India. The manufacturer have to give test report/certification of fire glass and the glass should be toughened in nature with Bi Directional Fire Protection and have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	4.68	sqm	32,754.97	153293.27
26	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer-in-charge, all complete.	26.00	each	6,273.99	163123.66
27	Providing & Fixing Door Closer TS 71 V Std Arm 01 Nos Per Leaf	52.00	each	8918.18	463745.36
29	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.				

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उत्तर प्रदेश पुलिस आवास निगम लि०
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इकाई प्रभारी
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S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
	(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. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	631.43	sqm	1,263.32	797700.70
30	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)				
	G.F.	592.90	sqm	257.71	152798.04
	F.F.	700.97	sqm	257.71	180648.25
	S.F	1052.18	sqm	257.71	271159.85
	T.F	1061.94	sqm	257.71	273673.19
	F.F.	1014.80	sqm	257.71	261526.59
	FIFTH.F	1014.80	sqm	257.71	261526.59
	SIXTH.F.	1014.80	sqm	257.71	261526.59
	TERRACE	480.30	sqm	257.71	123778.34
31	15 mm cement plaster on rough side of single or half brick wall of mix 1:6 (1 cement: 6 coarse sand)				
	G.F.	458.41	sqm	296.48	135911.93
	F.F.	698.34	sqm	296.48	207047.08
	S.F	882.96	sqm	296.48	261783.32
	T.F	951.89	sqm	296.48	282218.85
	F.F.	912.41	sqm	296.48	270512.96
	FIFTH.F	912.41	sqm	296.48	270512.96
	SIXTH.F.	912.41	sqm	296.48	270512.96
	TERRACE	138.82	sqm	296.48	41157.02
33	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.				
	T.F	1061.94	sqm	65.32	69363.99
	F.F.	1014.80	sqm	65.32	66285.36
	FIFTH.F	1014.80	sqm	65.32	66285.36
	SIXTH.F.	1014.80	sqm	65.32	66285.36
	TERRACE	480.30	sqm	65.32	31372.31
34	Making grooves 10 to 12 mm wide x 8 mm deep in plaster the all or in ceiling vertically of horizontally as required.	3101.62	metre	58.79	182357.08
35	Add for plaster drip course in plastered surface or moulding to R.C.C. projections.	203.52	metre	58.79	11965.78

(अवर अभियन्ता निर्माण)
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सहायक अभियन्ता
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इकाई प्रभारी
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S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
36	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
	G.F.	33.34	sqm	997.40	33257.77
	F.F.	20.65	sqm	997.40	20596.20
	S.F.	35.97	sqm	997.40	35875.63
	T.F.	22.98	sqm	997.40	22919.14
	F.F.	22.98	sqm	997.40	22919.14
	FIFTH.F.	22.98	sqm	997.40	22919.14
	SIXTH.F.	22.98	sqm	997.40	22920.26
37	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.				
	G.F.	125.92	sqm	950.87	119729.46
	F.F.	91.69	sqm	950.87	87181.26
	S.F.	158.55	sqm	950.87	150760.07
	T.F.	100.30	sqm	950.87	95368.23
	F.F.	100.30	sqm	950.87	95368.23
	FIFTH.F.	100.30	sqm	950.87	95368.23
	SIXTH.F.	100.30	sqm	950.87	95368.23
38	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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm				
	G.F.	244.33	sqm	1,164.97	284642.17
	F.F.	115.96	sqm	1,164.97	135086.58
	S.F.	486.31	sqm	1,164.97	566537.44
	T.F.	450.46	sqm	1,164.97	524777.22
	F.F.	352.87	sqm	1,164.97	411085.92
	FIFTH.F.	352.87	sqm	1,164.97	411085.92
	SIXTH.F.	352.89	sqm	1,164.97	411106.74
	TERRACE	26.66	sqm	1,164.97	31058.14
39	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm				
	G.F.	14.08	sqm	1,217.17	17131.61
	F.F.	11.23	sqm	1,217.17	13669.99
	S.F.	64.33	sqm	1,217.17	78298.59
	T.F.	55.56	sqm	1,217.17	67625.75
	F.F.	42.35	sqm	1,217.17	51540.90
	FIFTH.F.	42.35	sqm	1,217.17	51540.90
	SIXTH.F.	42.35	sqm	1,217.17	51540.90
	TERRACE	2.09	sqm	1,217.17	2537.79

उत्तर प्रदेश पुलिस आवास निगम लि०
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उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर ।

S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
39	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) :				
	G.F.	203.79	sqm	1,461.04	297739.76
	F.F.	251.55	sqm	1,461.04	367521.68
	S.F.	46.31	sqm	1,461.04	67666.69
	T.F.	46.31	sqm	1,461.04	67666.69
	F.F.	46.31	sqm	1,461.04	67666.69
	FIFTH.F.	46.31	sqm	1,461.04	67666.69
	SIXTH.F.	46.31	sqm	1,461.04	67666.69
		686.90			
40	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				
	G.F.	27.49	sqm	1,765.85	48545.84
	F.F.	39.17	sqm	1,765.85	69173.60
	S.F.	16.08	sqm	1,765.85	28389.55
	T.F.	16.08	sqm	1,765.85	28389.55
	F.F.	16.08	sqm	1,765.85	28389.55
	FIFTH.F.	16.08	sqm	1,765.85	28389.55
	SIXTH.F.	16.08	sqm	1,765.85	28389.55
41	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	Granite of any colour and shade				
	Area of slab over 0.50 sqm	132.57	sqm	4,059.72	538183.41
42	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. (100 mm C.C. Floor with Trimixing) (P - 19)	205.76	sqm	847.58	174401.55
43	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 : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	9459.07	sqm	139.22	1316925.78
44	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 @ 0.90 litre/10 sqm)	7012.50	sqm	128.31	899788.75
45	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.	16471.56	sqm	117.03	1927598.49
46	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.30 ltr/10 sqm of approved brand and	821.91	sqm	128.01	105214.03

(अल-आवास निगम लि०)

अवर कमिश्नर (प्रेम)

उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुरसह-प्रमुख अतिरिक्त
उत्तर प्रदेश पुलिस आवास निगम लि० उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर। निर्माण इकाई, कानपुर।

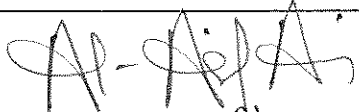
S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
47	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	201.18	sqm	132.17	26590.83
48	French spirit polishing : Two or more coats on new works including a coat of wood filler	134.51	sqm	334.65	45012.65
49	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. (The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.)	89.15	sqm	462.74	41251.68
50	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with the help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with the help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized@ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with :				
	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.	181.88	SQM	1,765.81	321165.79
51	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite work	225.80	metre	383.17	86518.84
52	P/F SELF SUPPORTING SHEET OVER OTS AREA	127.91	SQM	2,250.00	287790.75

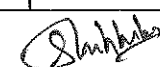
अभि. आसिफ अमर
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
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S.N.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
53	Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :	69.81	SQM	1,150.24	80297.93
				TOTAL	59835979.04
				SAY IN LACS	598.36


 (अल-आसिफ अंसारी)
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 निर्माण इकाई, कानपुर


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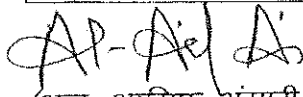
						A.R.-V
ANALYSIS RATE FOR 100.0 Sqm. C.C. FLOOR						
S.N.	DESCRIPTION OF ITEM	NO	QTY	UNIT	RATE	AMOUNT
1	Providing and laying in cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)					
		1	10.00	CUM	6436.91	64369.08
2	Trimixing of the surface of the cement concrete laid.					
		1	100.00	SQM	200.00	20000.00
3	Providing and laying in position bitumen hot sealing compound for expansion joints etc. DSR-					
	Using grade 'A' sealing compound.	6	60.00	RM	6.49	389.21
COST OF 100.00 SQM. P.C.C. FLOOR					TOTAL	84758.29
HENCE COST OF 1.00 SQM. P.C.C. FLOOR					SAY RS.	847.58

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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर ।

NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY AT BINDKI , DISTRICT FATEHPUR (U.P.)					
FIRE STATION BUILDING (G+6)					
BILL OF QUANTITY (WATER SUPPLY AND SANITARY)					
S. NO.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
1	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	16	Each	5075.04	81200.70
b	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				
	W.C. pan with ISI marked white solid plastic seat and lid	20	Each	4886.18	97723.51
2	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	20	Each	261.84	6983.00
3	Providing and fixing c.p brass Health fauset.	20	Each	1458.00	29160.00
4	Supplying, fixing, testing and commissioning of wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	36	Each	1986.44	71511.82
5	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	36	Each	1262.39	45445.92
6	One Urinal basin with 5 liter white p.v.c automatic flushing cistern.	1	Each	4693.59	4693.59
	TWO HALF STALL URINAL	4	Each	7208.58	28834.33
7	Providing & fixing stone slab table rubbed, edges rounded and polished of size 75 X 50cm deep and 1.8 cm thick fixed in urinal partitions 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 aggregate 6mm nominal size) as per Engineer-in-charge and finished smooth				
	Granite stone of approved shade	4	SQM	3038.58	12154.34
8	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				
a	Kitchen sink withOUT drain board				
	510x1040 mm bowl depth 225 mm	16	Each	3705.23	59283.69
9	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				
	Flexible Pipe				
	32mm Dia	36	Each	89.65	3227.53
	40mm Dia	16	Each	89.65	1434.46
10	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
	Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	36	each	86.47	3112.79
	Waste coupling 38 mm dia of 83 mm length and 77 mm breadth weighing not less than 60 gms	16	each	91.79	1468.65

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11					
a	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	36	Each	1205.84	43410.32
12	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.	36	Each	812.54	29251.58
13	Providing and fixing toilet paper holder : C.P. brass	20	Each	602.71	12054.30
14	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.	36	Each	126.25	4545.00
15	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	36	Each	531.66	19139.74
16	Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste, and vent, Type-B as per IS: 13592 suitable for rubber ring joints for vertical pipes and solvent cement joints for horizontal pipes, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, cowels, clamps, hangers, rubber rings, clean outs etc. fixing at wall / ceiling / floor level supported by clamp & hangers etc. inside duct / suspended from floor under false ceiling for proper completion of the work. The rubber ring shall conform to IS:5382. (Make: Supreme / Ashirvad/Finolex / Prince) (Pipe support: Intellotech / Easyflex / Chilly The Pipes will be supported by either rubber lined G.I. U strap clamps on 50x50x5 mm MS slotted angle duly painted (for a group of pipes) or G.I. rubber lined split clamp (for independent pipes). The cost will include all support arrangements. The work includes cutting holes in wall/floors/slabs and making good the same with cement concrete 1:2:4 complete as required. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site				
	110 mm dia	260.0	Rmt.	880.00	228800.00
	75 mm diameter	480.0	Rmt.	645.00	309600.00
17	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 For 75mm dia. Pipe	100 140	Each Each	272.11 269.97	27211.04 37796.23
18	Supply and fixing of UPVC SWR COWEL confirming to IS 14735 110mm	16	Each	109.09	1745.44
19	Supply and fixing of UPVC S.W.R. pipe nahni trap size 100x75,110/90 mm confirming to IS-14735 self cleaning design fixed in PCC 1:2:4 and brass jali. supply and fixing of 125 mm dia heavy duty CP	114	Each	950.00	108300.00
20	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge..				

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	Internal work - Exposed on wall				
	20 mm dia nominal bore	378	Rmt.	251.22	94963.03
	25 mm dia nominal bore	435	Rmt.	301.13	130992.63
	40 mm dia nominal bore	120	Rmt.	527.16	63259.19
	50 mm dia nominal bore	35	Rmt.	700.54	24518.99
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/e 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.				
	Concealed work, including cutting chases and making good the walls etc.				
	15 mm dia nominal bore	125	Rmt.	373.31	46664.10
	20 mm dia nominal bore	459	Rmt.	403.16	185050.35
22	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer				
	External work				
	50 mm dia, nominal bore	120	Rmt.	593.63	71475.37
23	Providing and fixing of gun metal gate valve with CI wheel of approved quality (screwed ends)				
a	20mm dia, nominal bore	18	Each	404.92	7288.60
b	25 mm dia, nominal bore	21	Each	466.73	9801.82
d	40 mm dia, nominal bore	5	Each	619.51	3097.57
e	50 mm dia, nominal bore	1	Each	769.91	769.91
24	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	206	Each	73.31	15100.87
25	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet 150 mm diameter	32	Each	166.75	5335.87
26	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931				
	15mm nominal bore	36	Each	380.06	13682.24
27	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	96	Each	599.15	57518.67
28	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931				
	15 mm nominal bore	206	Each	430.68	88720.50
29	Providing and fixing PTMT grafting of approved quality and colour				
	Circular type				
	100 mm nominal dia	114	Each	28.20	3214.48
30	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	402	each	56.09	22549.95
31	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
	50 mm nominal bore, 242 mm long, weighing not less than 1240 gms	1	each	1031.86	1031.86
32	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm nominal bore	64	each	502.79	32178.39

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33	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
	110 mm diameter	219.00	metre	283.02	61981.77
34	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	Coupler				
	110 mm	36.00	each	102.10	3675.68
	Bend 87.5°				
	110 mm bend	10.00	each	112.75	1127.51
	Shoe (Plain)				
	110 mm Shoe	10.00	each	98.88	988.78
35	Providing and fixing unplasticised -PVC pipe clips 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	144.00	each	278.45	40096.40
36	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	10.00	each	41.02	410.21
37	Making khurras 45x45 cm 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 x 1 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.	10.00	each	223.67	2236.65
38	Providing and fixing Forged Brass Compacted Pressure Reducing Valve (Screwed) Complete				
	40mm	4.00	each	5681.82	22727.28
39	Providing, fixing, testing & commissioning of motorised butterfly valve (with by pass line) with float type sensors suitable for 240 volts with working pressure rating of not less than 5 kg/cm ² with control panel and sensors to open valve when water level is low in tanks and to close when water level is high in water tanks including necessary cables, conduits, upto junction box, pipe, butter fly / ball valves etc. complete				
	50 MM DIA	1.00	each	40909.09	40909.09
			TOTAL	TOTAL	2319455.75
			SAY IN LACS	23.19	LACS

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**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI, DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITY OF FIRE STATION

INTERNAL ELECTRIFICATION WORK

S.No.	Description of Items	Unit	Qty.	RATE	Amount
	Point Wiring				
1	Wiring point for Light with 1.5sq. mm. FR PVC insulated multistrand single core copper cable in PVC conduit with 1.5 sq.mm. FR PVC-insulated multistrand Copper conductor cable as earth wire drawn in side the conduit. Add for light/fans with modular type switch.	each	382	897.70	342919.5
2	Wiring point for two ways light point with 1.5 sq.mm. FRLSH PVC insulated multistrand single core copper conductor cable in Surface/Recessed medium class PVC conduit 2 way modular switch modular plate suitable G.I. Box and earthing the point with 1.5 sq. mm FRLS PVC insulated Copper conductor Single core cable etc. as required.	each	14	1361.27	19057.7
3	Wiring point for Fan/light duty exhaust fan with 1.5sq. mm. FR PVC insulated multistrand single core copper cable in PVC conduit with 1.5 sq. mm. FR PVC-insulated multistrand Copper conductor cable as earth wire drawn in side the conduit. Add for light/fans with modular type switch.	each	121	897.70	108621.1
4	Wiring point for plug with 1.5 sq.mm FRLSH PVC insulated multistrand single core copper conductor cable in PVC conduit pipe Partly concealed in the wall and partly Laid in slab along with the reinforcement before concreting ,complete with 1.5sqmm. FRLSH PVC insulated multistrand single core copper conductor cable as earth continuity wire , GP box, piano type switch & socket etc.complete in all respect,as directed, including matching colour wash.	each	180	483.96	87111.9
5	Wiring point for Exhaust fan with 1.5 sq.mm FRLSH PVC insulated multistrand single core copper conductor cable in heavy gauge PVC conduit pipe Partly concealed in the wall and partly Laid in slab along with the reinforcement before concreting complete with 1.5sqmm. FRLSH PVC insulated multistrand single core copper conductor cable as earth continuity wire , GP box and 15 amp piano type switch & ceiling rose /angle/batten holder on 3mm thick , phenolic laminated bakelite sheet etc.complete in all respect,as directed, including matching colour wash.	each	53	897.70	47577.8
6	Supply fixing & concealing of PVC 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.				
A	Size 20 mm dia 16SWG (2 mm)thick	MTR	1386	114.01	158010.9
B	Size 25 mm dia 16SWG (2 mm)thick	MTR	504	126.84	63927.4
C	Size 32 mm dia 16SWG (2 mm)thick	MTR	315	157.80	49705.4
	Submains				

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Shukla
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निर्माण इकाई-क

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7	Supply & wiring of submains with 2 nos.1.5 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 1.5 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	1571	201.59	316690.0
8	Supply & wiring of submains with 2 nos.2.5 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 1.5 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	2361.6	234.81	554515.5
9	Supply & wiring of submains with 2 nos.4 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 2.5 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	1524.6	281.62	429350.2
10	Supply & wiring of submains with 2 nos.6 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 25 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 4 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	1159	363.91	421844.5
11	Supply & wiring of submains with 2 nos.10 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 25 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 6 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	403	468.86	189042.3
12	Supply & wiring of submains with 4 nos. 6 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 32 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 2 no. 4 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	378	613.82	232022.1
13	Supply & wiring of submains with 4 nos.10 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 40 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 2 no. 6 sqmm, FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	rmt	612	813.89	498100.7
	Switches				
14	Supply and fixing of 63 amp DP 30 mA ELCB/ RCCB of Din Rail mounting in DB complete in all respect with connections as required.	each	8	2163.83	17310.6

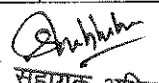
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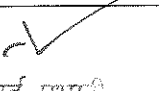
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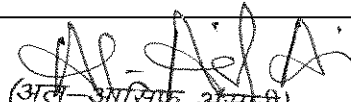
15	Supply & fixing and making connection of 63 amp. 4P 30 mA ELCB/ RCCB of Din Rail mounting in complete in all respect as per direction and satisfaction to the Engineer in Charge.	each	30	2715.74	81472.1
	Light & Fan Fixture				
16	Supply & fixing of Batton/Angle holder including making connection etc. as required.	each	185	116.27	21510.0
17	Supply and fixing of recess mounting round 15 to 18 Watt LED Down lighter having powder coated die cast aluminium housing with heat sink, diffuser/reflector and driver set. Complete in all respect. CAT. - AAA	each	64	758.02	48513.3
18	Supply and fixing of LED Tube Light with Metal heavy duty Box type batten Light fitting 1X22 watt suitable for upto 1X22 watt LED Polycarbonate tube light complete including tube suitable for both surface & suspended complete in all respect. CAT. - AAA	each	133	594.19	79026.6
19	Supply of ceiling fans with fan motor of A.C. Permanent insulation, capacitor rating conforming BEE 5 Star rating and IS:374/79 and also comply with IS:1709/1984 with latest amendment. The rated voltage 220/240 volts, 50 Hz, 1-Ph AC the fan assemble should consists of down rod blades, shackle canopies etc and with double ball bearing system.				
	BEE 5 Star rated-1200 mm sweep	each	82	2034.73	166847.5
20	Supply & Fixing of AC 230mm Sweep, 230/250 Volts, 50 Hz exhaust fan (Light Duty) with blades, cover etc. complete as required	each	39	1979.20	77188.8
21	Supply & Fixing of AC 300mm Sweep, 230/250 Volts, 50 Hz exhaust fan (Heavy Duty) with blades, cover etc. complete as required	each	14	3376.90	47276.6
22	Supplying and laying of aluminium conductor PVC insulated armoured served sheathed cable 1100 volts grade at the depth of 750 mm below 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. Following size				
	size 35 sq mm x 3-1/2core	mt	80	392.00	31360.0
	size 120 sq mm x 3-1/2core	mt	130	794.00	103220.0
	size 240 sq mm x 3-1/2core	mt	85	1329.00	112965.0
23	Supply and fixing of brass nickel plated compression gland for pvc insulated & armoured served sheathed underground cable including rubber ring etc. complete in all respect. The armouring of the cable shall be properly connected with the earth as per direction of engineer-incharge. for cable				
	size 35 sq mm x 3-1/2core	each	3	160.20	480.6
	size 120 sq mm x 3-1/2core	each	4	218.70	874.8
	size 240 sq mm x 3-1/2core	each	3	425.70	1277.1
24	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. for cable				
	size 35 sq mm	each	9	27.90	251.1
	size 120 sq mm	each	12	105.30	1263.6
	size 240 sq mm	each	9	244.80	2203.2

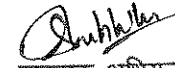

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	Lighting Conductor				
25	Supply and burying earth electrode for lighting conductor of 600mm x 600mm x 3mm Copper plate vertically with its top at least 3 metres below ground level complete with 20mm dia G.I. pipe for watering funnel, 30cm square C.I. frame with hinged cover masonry housing alternate layers of charcoal/coke and salt at least 150mm thick around etc. as per directions of Engineer-in-charge complete in all respect.	each	1	11328.02	11328.0
26	Supply and fixing of horizontal air termination (roof conductor) of 25mm x 3mm copper strip, on G.I. clamps on surface complete in all respects as approved by Engineer-in-charge.	Metre	50	485.00	24250.0
27	Supply and fixing of vertical air termination final rod comprising of 300mm long x 25mm dia. Copper rod with one pointed prong and 100mm dia x 3 mm thick base plate etc. complete in all respect.	each	1	1197.00	1197.0
28	Supply and fixing of vertical down conductor of 32mm x 6mm G.I. strip etc. on approved clamps on surface for lightning conductor complete in all respects (for two storeyed Buildings).	each	1	279.00	279.0
29	Supply and fixing of vertical down conductor of 32mm x 6mm copper strip etc. on approved clamps on surface for lightning conductor complete in all respects (For two storeyed buildings).	Metre	50	1370.00	68500.0
30	Supply and laying of 32 mm x 6 mm copper strip from earth electrode directly in the ground as required complete in all respects.	Metre	50	139.68	6983.8
31	Supply and fixing of testing joint of copper strip 32mm x 6mm and 150mm long with tinned of brass bolts and nut etc. complete in all respect.	each	50	91.36	4567.8
	Earthing System				
32	Supply and burying of 600mm x 600mm x 6mm G.I. plate vertically for earthing with its top at least 3 metres below ground level complete with 20mm dia G.I. pipe and funnel for watering and one earthing lead of one no. 8 to 10 SWG GI wire in 15mm dia G.I. pipe up to 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. as per directions of Engineer in-charge complete in all respects as per drawing (This will apply for earthing of poles also).	each	4	5350.00	21400.0
33	Supply and laying of 25mm x 3 mm G.I. strip from earth electrode directly in the ground as required complete in all respects.	mt	80	90.00	7200.0
34	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 site.	mt	80	210.00	16800.0
35	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required.				
	50 mm dia	mt	40	428.79	17151.5
	L.T. Switch Panel Board				


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36	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreis Electrical control panel with TPN MCCB'S(36 KA,4Pole with thermal magnetic release) Switches and instrument chamber etc.complete in all respects. The instrument chamber shall be separate and shall comprise of flush type/digital metering system for phase to phase voltagee and other parameters (KVA,P.F,KW etc.) in each phase with toch type selector switches for diffrent readings , instruments phases, current transformer etc.The panel board shall have suitable capacity electrolitic al.bus bars as per IS 8623 or above insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/BMC support with deteachable side covers and shall be suitable for extension on the sides.The MCCB's shall becomplete with suitable cable and boxes, compression glands and indicating lamp on incoming etc. The job includes the grouting of the board as per directions of Engineer-in-charge. All outgoings of 100 amp and above shall have an Ammeter. The Panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6 mm /2 mm cuibical type switch board shall be of CAT A & B only.				
	CAT. B Cubicle Type				
	Incoming -	each	1	102800.00	102800.0
	200Amp / 415 Volt MCCB-1 No				
	Outgoing -				
	100 Amp MCCB- 0 Nos.				
	63 Amp FP MCB-5 Nos				
	63 Amp FP MCB- 4 Nos				
	40 Amp FP MCB - SPARE				
	(or As per requirment directed by Project Manager.)				
37	SUB FLOOR PANELS 1 TO 7				
	INCOMER (I1) :				
	100A FP 25kA Adjustable Thermal(O/C) & Adjustable Magnetic(S/C) Based MCCB with Extended RHOM, Spreaded Terminals, Shunt Trip.	1 No			
	R,Y,B LED Indication Lamps.	1 Set			
	6Amps SP "C" Curve MCB for Control Circuit.	3 Nos			
	96Sq.mm, Digital Multi Data Meter.	1 No			
	160A/5A Class 1 5VA Resin Cast CT's.	3 Nos			
	(0.3-12A), 96Sq.mm, Digital Earth Leakage Relay with CBCT.	1 No			
	(0-500V) 96Sq.mm, Digital Voltmeter with Built-in Selector Switch.	1 No			
	Set		6.00	92,000.00	552000.0

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	DBs & MCBs				
38	Supply and fixing of 240 volts C Curve 6-32 amp SP miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required. CAT A	each	366	215.18	78754.1
39	Supply and fixing of 240 volts C Curve 40-63amp DP miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required. CAT A	each	2	1180.00	2360.0
40	Supply and fixing of 240 volts C Curve 63 amp 4P miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required. CAT A	each	34	841.83	28622.1
41	Supply and fixing of 80-100 amp 4 pole MCCB (16 KA) thermal magnetic release. CAT A	each	1	6300.00	6300.0
42	Supply and fixing of flush/surface mounting 4 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	15	1590.00	23850.0
43	Supply and fixing of flush/surface mounting 6 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge	each	17	1804.45	30675.7
44	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. CAT A	each	25	2093.62	52340.4
45	Supply and fixing of flush/surface mounting 12 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	22	2167.61	47687.3
46	Supply and fixing of flush/surface mounting 12 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	18	7740.00	139320.0
47	Supply and fixing of flush/surface mounting 8 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	14	4784.44	66982.1
48	Supply and fixing of flush/surface mounting 6 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	1	4000.75	4000.7
49	Supply and fixing of flush/surface mounting 4 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	1	3304.64	3304.6
50	Supply and fixing of flush/surface mounting 4 ways V TPN distribution board without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	3	6003.01	18009.0
51	Supply & Fixing of MCB blanking plate for DB.	each	155	10.57	1638.4
	Miscellaneous Items				
52	Supply and Fixing of Danger Board fabricated from 10 gauge M.S. Sheet as per I.E. Rules	each	2	85.00	170.0
53	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	82	140.00	11480.0
54	Erection and testing of exhaust fan on the existing hole with suitable size rag bolt nut & washer etc. complete in all respects.	each	53	175.00	9275.0

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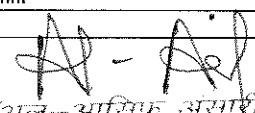
55	Supply and fixing of 16 gauge MS drum duly painted including making hole in the wall for exhaust fan and finishing properly complete in all respect.	each	53	810.00	42930.0
56	Supply and Fixing of shock treatment chart, prescribed as per I.E. Rules, duly framed with glass and supported from back with hard board or soft board with supply of all material, labour, T&P for proper completion of work.	each	4	305.00	1220.0
57	Supply and Laying of 1800*900*12mm thick chequered rubber matting of tested quality. complete in all respect. as per I.E. Rules	each	6	2550.00	15300.0
58	Supply and fixing of power plug with 20A/250V flush type Modular switch and 5 Pin 20A/250V flush type universal Modular socket in suitable Concealed MS Box including supply of all material, labour, T&P etc. required for proper completion of work.	each	116	650.00	75400.0
59	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required. (for Air conditioning/Main incoming.)	each	56	609.29	34120.0
60	Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top along with 30 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	each	4	3290.29	13161.2
61	Supply & Fixing of Modular switch blanking plate for Modular switch board.	each	304	35.49	10787.4
62	Supply and fixing One/Two module G.I box awlong with modular base with cover plate.				
	1 or 2 Module (75mmX75mm)	each	55	267.27	14699.9
	3 Module (100mmX75mm)	each	116	289.92	33630.7
	4 Module (125mmX75mm)	each	120	302.76	36330.6
	6 Module (200mmX75mm)	each	90	348.81	31392.9
	8 Module (125mmX125mm)	each	110	390.34	42936.9
	12 Module (200mmX150mm)	each	74	463.57	34304.2
	Electronic Items				
63	Supply fixing of electronic fan regulator 120-280 V. ISI marked, on the existing switch board including making connection, required material, labour T/P etc for proper completion of work to the satisfaction of Engineer in charge of work.	each	82.00	303.51	24887.8
64	Supply and fixing of Three phase multifunctional electronic energy meter 10 to 60 Amp. Capacity fitted in integral box on wall complete in all respect.	each	7	6200.00	43400.0
	RISING MAINS				

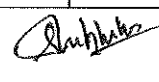
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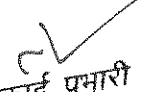
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65	Supplying, installing on wall, testing and commissioning of following capacity Air Insulated Compact Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints & expansion joints, fire barrier at each floor, provision of tapping at every metre, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.				
	200 A, Isc = 15kA for 1 second	Mtr	28	6375.98	178527.3
66	Supplying, installation, testing & commissioning of following capacity End Feed Unit for the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.				
	200 A, Isc = 15kA for 1 second	each	1	6718.75	6718.7
67	Supplying, installation, testing & commissioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete etc. as required.				
	125 A 15kA SC for 1 sec	each	6	6718.75	40312.5
68	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	125 A, 16 KA, TPMCCB	each	6	3852.77	23116.6
69	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
	600 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	60.00	1205.74	72344.1
70	Supplying and fixing ladder type prefabricated CRCA sheet steel Stove enameled cable tray complete with bend/tee joints, coupling plate and nut bolts washers etc. with side runner 20 x 100 x 2.5mm and centre rungs of size 15 x 30 x 2.5mm c/c 250mm, including providing and fixing of hangers etc. as required.				
	900mm	Metre	50.00	1,550.00	77500.0


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FIRE FIGHTING WORK

NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY

AT BINDKI , DISTRICT FATEHPUR (U.P.)

S.No.	Description of Item	Unit	Qty.	RATE	Amount
	Fire Alarm & Fire Fighting System .				
	Fire Alarm System :				
1	Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5% V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications.				
	Two Loop Panel	NOS	1.00	1,89,067.10	189067.10
2	Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required.	NOS	1	1,58,749.32	158749.32
3	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal (Smoke) detector complete with mounting base complete as required.	NOS	40.00	2,268.02	90720.80
4	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	NOS	4	231.03	924.12
5	Supplying, installation, testing & commissioning of fault isolator complete with base as required.	NOS	4	2,592.67	10370.68
6	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.	NOS	5	2,163.83	10819.15
7	Supplying, installation, testing & commissioning of addressable fire control module complete as required.	NOS	2	2,382.78	4765.56
8	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	NOS	14	3,067.57	42945.91
9	Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.	NOS	14	2,779.91	38918.74
10	Supplying, installation, testing & commissioning of fire fighter telephone handset complete as required.	NOS	14	4,542.08	63589.12
11	Supplying, installation, testing & commissioning of fire fighter phone jack complete as required.	NOS	14	1,275.20	17852.73
	Public Addressable System :				
12	Supplying, installation, testing & commissioning of 6 inches dia, 2 watts, 70/100 volts ceiling speaker complete as required.	NOS	14.00	1,463.95	20495.23

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S.No.	Description of Item	Unit	Qty.	RATE	Amount
13	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.	metre	600	291.43	174858.00
14	Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	metre	600	45.30	27180.00
	Fire Fighting System :			-	-
15	Providing & fixing carbon steel Fire Man Axe with rubber insulated handle tested to 20000 volts.	Each	14	675.00	9450.00
	1200x900 mm (Indoor Cabinet) Only Frame	Each	14	6500.00	91000.00
16	Providing and Fixing of Self illuminated /Auto Glow Exit Signs printed on photo-luminescent sheet containing self illuminated base chemical, of appropriate size not less than 400x150mm, suspended from ceiling or fixed to the walls with accessories as required and as directed at site.	Each	20	1136.36	22727.20
17	Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required : Terrace Pump			-	-
	Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520			-	-
	Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.			-	-
	M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required.			-	-
	Suitable cement concrete foundation duly plastered and with anti vibration pads.			-	-
18	PUMPS			-	-
18.1	Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required :			-	-
	Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.			-	-
	Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.			-	-
	M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.			-	-
	Suitable cement concrete foundation duly plastered with anti vibration pads.			-	-
	2280 lpm at 70 m Head		1	2,93,076.66	293076.66
	Note: *The head of the pump is selected in a manner so as to give a minimum 3.5kgf/cm ² pressure at the highest / farthest point.			-	-
18.2	Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump)			-	-
	Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.			-	-

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Shukla
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S.No.	Description of Item	Unit	Qty.	RATE	Amount
	Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.			-	
	M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.			-	
	Suitable cement concrete foundation duly plastered with anti vibration pads.			-	
	2280 lpm at 70 m Head		1	4,84,794.56	484794.56
	Note: *The head of the pump is selected in a manner so as to give a minimum 3.5kgf/cm ² pressure at the highest / farthest point.			-	
18.3	Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump)			-	
	Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.			-	
	Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.			-	
	M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.			-	
	Suitable cement concrete foundation duly plastered with anti vibration pads.			-	
	180 lpm at 70 m Head		1	82,486.77	82486.77
19	CONTROL PANELS			-	
	Fabrication, supply, Installation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :			-	
	INCOMING			-	
	250A, 50kA 4 Pole MCCB, lcs=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-630 A) with selector switch & CTs etc.			-	
	LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps			-	
	Set of Copper Bus Bar 800Amps			-	
	OUTGOING (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)			-	
	Main Fire Pump 200 Amp, 50kA TPN MCCB, lcs=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets			-	

(अल-आसिफ अहमदी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.No.	Description of Item	Unit	Qty.	RATE	Amount
	Jockey Pump 100 Amp, 50kA TPN MCCB, lcs=100% lcu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets			-	
	Diesel Engine Control			-	
	Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode			-	
	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication			-	
	Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0- 20 A DC Ammeter			-	
	All standard relays and accessories for automatic operation of diesel engine			-	
	System Controller			-	
20	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification.		1	1,93,871.17	193871.17
				-	
21	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required. (Underground)			-	
	150 mm. Dia	metre	24	3,853.52	92484.48
				-	
22	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :			-	
22.1	25 mm dia	R/M	6	694.60	4167.60
22.2	80 mm dia	R/M	6	1,719.14	10314.81
22.3	100 mm dia	R/M	60	2,323.14	139388.10
				-	

AP-AP
(अल-आसिक अंसेमरी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.No.	Description of Item	Unit	Qty.	RATE	Amount
	Pipes & Accessories			-	
23	Providing, fixing, testing & commissioning of C.I. Butterfly valve conforming to IS : 13095 with flanges, nuts, bolts and washers complete for following sizes :- [PN 16 rating (16 kg/cm ² pressure rating)]. Make: Kalpana/Kartar/Firejeet.			-	
23.1	80 mm dia	Each	4	4,081.53	16326.12
23.2	100 mm dia	Each	2	5,489.61	10979.21
23.3	150 mm dia	Each	2	7,351.44	14702.87
25	Providing, fixing, testing & commissioning of C.I. dual plate Non-Return Valve [PN 1.6 Rating (16 kg/cm ² pressure rating)] complete with 2 nos. matching flanges, rubber insertion, with nuts, bolts and washers etc of following sizes . Make: Kalpana/Kartar/Firejeet.			-	
25.2	100 mm dia	Each	1	8,949.02	8949.02
25.3	150 mm dia	Each	1	14,257.42	14257.42
26	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	Each	2	1,260.85	2521.70
	FIRE HYDRANT SYSTEM (INTERNAL) :			-	
27	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
27.1	25 mm dia	R/M	12	694.60	8335.20
27.2	80 mm dia	R/M	12	1,719.14	20629.62
27.3	100 mm dia	R/M	84	2,323.14	195143.34
28	Providing, fixing, testing & commissioning of C.I. Butterfly valve conforming to IS : 13095 with flanges, nuts, bolts and washers complete for following sizes :- [PN 16 rating (16 kg/cm ² pressure rating)]. Make: Kalpana/Kartar/Firejeet.			-	
28.2	100 mm dia	Each	2	5,489.61	10979.21
29	Providing, fixing, testing & commissioning of C.I. dual plate Non-Return Valve [PN 1.6 Rating (16 kg/cm ² pressure rating)] complete with 2 nos. matching flanges, rubber insertion, with nuts, bolts and washers etc of following sizes . Make: Kalpana/Kartar/Firejeet.			-	
29.2	100 mm dia	Each	1	8,949.02	8949.02
30	Supplying and fixing single headed Internal Hydrant Valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required : Single headed Stainless steel	Each	14.00	5,007.16	70100.24
31	Supplying and fixing 63 mm dia, 15 m long RRL Hose Pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required : Make: Firejeet / Minimax / Newage. Stainless Steel (Grade 304)	Each	28.00	3,523.59	98660.38
32	Supplying & fixing 63 mm dia gun metal short Branch Pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required : Stainless Steel (Grade 304)	Each	14.00	2,568.51	35959.14

(अल-आवास निगम लि०)
अवर अभियन्ता (जेम)

उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(सहायक अभियन्ता)

उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी

उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

S.No.	Description of Item	Unit	Qty.	RATE	Amount
33	Supplying and fixing First-Aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.				
	30 m	Each	14.00	7,127.20	99780.80
34	Providing & fixing cast iron air release valve of 25 mm dia including 25 mm dia Ball valve with fittings etc. as per the requirement.	Each	1	4272.73	4272.73
35	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	Each	1.00	14,648.51	14648.51
36	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.	Each	1.00	5,488.85	5488.85
	100 mm dia				
	FIRE HYDRANT SYSTEM (EXTERNAL) :				
37	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
37.1	25 mm dia	R/M	12	694.60	8335.20
37.2	80 mm dia	R/M	12	1,719.14	20629.62
37.3	100 mm dia	R/M	48	2,323.14	111510.48
38	Providing, fixing, testing & commissioning of C.I. Butterfly valve conforming to IS : 13095 with flanges, nuts, bolts and washers complete for following sizes :- [PN 16 rating (16 kg/cm ² pressure rating)]. Make: Kalpana/Kartar/Firejeet.				
38.2	100 mm dia	Each	2	5,489.61	10979.21
39	Providing, fixing, testing & commissioning of C.I. dual plate Non-Return Valve [PN 1.6 Rating (16 kg/cm ² pressure rating)] complete with 2 nos. matching flanges, rubber insertion, with nuts, bolts and washers etc of following sizes . Make: Kalpana/Kartar/Firejeet.				
39.2	100 mm dia	Each	1	8,949.02	8949.02
40	Supplying and fixing single headed Hydrant Valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :				
	Single headed Stainless steel	Each	2.00	5,007.16	10014.32
41	Supplying and fixing 63 mm dia, 15 m long RRL Hose Pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required : Make: Firejeet / Minimax / Newage.				
	Stainless Steel (Grade 304)	Each	4.00	3,523.59	14094.34

(अल-आसिफ अंसारी)

अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(शुभम)

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

S.No.	Description of Item	Unit	Qty.	RATE	Amount
42	Supplying & fixing 63 mm dia gun metal short Branch Pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :				
	Stainless Steel (Grade 304)	Each	2.00	2,568.51	5137.02
43	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required :				
43.1	2 way-100 mm dia M.S. Pipe	Each	1.00	5,482.81	5482.81
43.2	4 way - 150 mm dia M.S. Pipe	Each	1.00	11,189.10	11189.10
44	Providing/Fixing of Fire Hose cabinet box made out of 18 gauge MS sheet including two coats of post office red paint over one coat of primer with 4 mm, thick glass door in front painted "FIRE" in red luminous paint. The size of the box should be 750 mm X 600 mm X 250 mm size capable of accommodating a pair of hose with coupling and nozzle. The box should be floor mounted type with railway coach lock arrangement and lever for opening the door after breaking the glass complete. Make : Standard/Lifeguard or E.Q.	Each	3.00	6000.00	18000.00
	SPRINKLER SYSTEM:				
45	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :				
45.1	25 mm dia	R/M	200	694.60	138920.00
45.2	32 mm dia	R/M	12	784.45	9413.34
45.3	40 mm dia	R/M	6	950.55	5703.27
45.4	50 mm dia	R/M	6	1,175.54	7053.21
45.5	80 mm dia	R/M	6	1,719.14	10314.81
45.6	100 mm dia	R/M	60	2,323.14	139388.10
45.7	150 mm dia	R/M	30	3,245.75	97372.35
46	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 0C with required accessories :				
46.1	Pendent Sprinkler	No	50	376.75	18837.25
46.2	Horizontal side wall sprinkler	No	12	527.75	6332.94
47	Providing & fixing flow switch in following sizes M.S.pipe including connection etc as required.				
47.1	100mm dia	No	1	6,092.10	6092.10
47.2	150 mm dia	No	1	6,828.22	6828.22
48	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes as required :				
	150mm dia	Set	1	38,357.78	38357.78
49	Providing, fixing, testing & commissioning of C.I. Butterfly valve conforming to IS : 13095 with flanges, nuts, bolts and washers complete for following sizes :- [PN 16 rating (16 kg/cm2 pressure rating)]. Make: Kalpana/Kartar/Firejeet.				
49.2	100 mm dia	Each	1	5,489.61	5489.61
49.3	150 mm dia	Each	1	7,351.44	7351.44
	FIRE EXTINGUISHERS				

(अति-आसिफ इकाई)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.No.	Description of Item	Unit	Qty.	RATE	Amount
50	Supply and fixing of fire extinguisher, ABC Type (ISI Marked IS : 15683 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.			-	
	4.0 kg. capacity	Each	14.00	7145.45	100036.30
51	Supply and fixing of C02 type fire extinguisher (ISI Marked IS : 2878 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.			-	
	4.5 kg. capacity	Each	14.00	10800.00	151200.00
				-	
52	Supply and fixing of fire bucket 9-11 litres capacity with river sand fill supply of all materials and labour for proper completion of work.	Each	2.00	445.45	890.90
				-	
				TOTAL	3889603.89
		SAY IN LACS		38.90	LACS

Al-Al

(अल-आसिफ अंसारी)

अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Sankar

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निर्माण निगम लि०
निर्माण इकाई-कानपुर ।

✓
काई प्रभारी

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्याण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)
SEPTIC TANK WITH SOAK PIT (100 USERS)**


S.N.	Description	Qty.	Unit	RATE	Amount
	Size :- Length = 7.50 M. Width = 2.65M Total Depth =2.10M				
1	Earth work in excavation in trenches for foundations and pipes cables etc in ordinary soil (loan clay or sand) including lift upto 1.5 m, lead upto 50 m and dressing of sides and ramming of bottom and disposal of surplus excavated earth as directed by the Engineer- in- charge with in a lead of 50m .				
	In all kind of soil upto 1.5m depth	81.67	Cum	195.21	15942.80
	In all kind of soil upto 1.5m to 3.0m. depth	48.00	Cum	290.30	13934.40
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	5.13	Cum	5108.49	26206.55
3	Class-150 (Non Modular) 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.	18.36	Cum	5348.65	98201.21
4	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 20 mm cement plaster	63.00	SQM	440.36	27742.68
5	40 mm thick cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.	20.60	SQM	460.60	9488.36
6	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). Slabs	3.83	Cum	8628.26	33046.24
6A	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform	25.53	Sqm	695.37	17755.11
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	3.01	QTL	8087.94	24344.70
8	Providing M.S. foot rest including fixing with 20x20x10 cm. cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded aggregate of nominal size 20mm) as per standard design with 20x20mm sq bars.	14.00	Nos.	408.48	5718.72
9	Providing and fixing C.I. tee at the inlet and outlet of septic tank.	2.00	Nos.	621.00	1242.00
10	Providing & fixing 75mm dia vent pipes.	1.00	Rm.	889.41	889.41
11	Providing & fixing of 75mm dia cast iron terminal guard.	1.00	No.	303.53	303.53

(अल-सोलाफ विभाग)
अवर अभियन्ता (निर्माण)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर


(सहायक अभियन्ता)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

S.N.	Description	Qty.	Unit	RATE	Amount
12	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				
	M.D. -10- Circular shape 500mm internal diameter	2.00	No.	879.36	1758.72
	L.D. -2.5- Circular shape 450mm internal diameter	2.00	No.	877.15	1754.30
13	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8m long complete as per standard design.				
	With F.P.S. bricks	2.00	No.	20144.42	40288.83
				TOTAL	318617.58
			SAY IN	3.19	LACS


 (अल-आसिफ अंसारी)
 अवर अभियन्ता (जिम्मे)
 उ० प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर

सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।

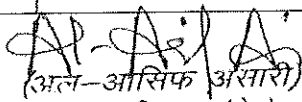

 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०,
 निर्माण इकाई, कानपुर।


NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY

AT BINDKI , DISTRICT FATEHPUR (U.P.)

BILL OF QUANTITY FOR BOUNDRY WALL 2.10 MTR HIGH

S.N.	Item	Qty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	15.39	CUM	195.21	3004.28
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	1.51	CUM	5108.49	7713.82
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 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) (Plinth Beam)	2.98	CUM.	6783.64	20215.25
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :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)	4.38	CUM	6783.64	29712.34
5	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 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)	2.30	CUM.	8138.90	18719.47
6	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundations, footings, bases of columns, etc. for mass concrete	15.99	SQM	294.08	4702.34
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	30.89	SQM	552.24	17058.69
	Columns, Pillars, Piers, Abutments, Posts and Struts	30.62	SQM	720.90	22073.96
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	13.09	QTL	8087.94	105871.13


 (अनिल-आसिफ अंसारी)
 अवर अभियन्ता (जेम)
 उ०प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर


 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०,
 निर्माण इकाई, कानपुर।

S.N.	Item	Qty.	Unit	Rate	Amount
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	2.04	CUM.	6828.78	13930.71
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	3.48	CUM.	7007.56	24386.31
10	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on smooth side of single or half brick wall.	37.37	SQM.	257.71	9630.62
11	15 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on rough side of single or half brick wall.	40.13	SQM.	296.48	11897.74
12	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 @ 0.90 litre/10 sqm)	77.50	SQM.	128.31	9944.20
	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.	77.50	SQM.	117.03	9069.50
13	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	4.80	Rmt.	283.02	1358.50
14	MAKING VERTICAL SLITS. (0.45 X 0.15)	24.00	sqm	100.00	2400.00
15	Add for plaster drip course in plastered surface or moulding to R.C.C. projections.	65.60	Rmt.	58.79	3856.90
16	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	30.84	Kg	88.00	2714.03
17	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5 mm thick) wire of high tensile strength of 165 kg/ sq. mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	24.33	Rmt.	281.82	6856.73
	Cost of boundary wall for	24.325	M		325116.53
	Cost of boundary wall PER RMT			13365.50	

AP-AR/A
(अल-आरिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY

AT BINDKI , DISTRICT FATEHPUR (U.P.)

49

BILL OF QUANTITY FOR BOUNDARY WALL 2.10 MTR HIGH

S.N.	Item	Qty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	15.39	CUM	195.21	3004.28
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	1.51	CUM	5108.49	7713.82
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 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) (Plinth Beam)	2.98	CUM.	6783.64	20215.25
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :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)	4.38	CUM	6783.64	29712.34
5	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 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)	2.30	CUM.	8138.90	18719.47
6	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundations, footings, bases of columns, etc. for mass concrete	15.99	SQM	294.08	4702.34
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	30.89	SQM	552.24	17058.69
	Columns, Pillars, Piers, Abutments, Posts and Struts	30.62	SQM	720.90	22073.96
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	13.09	QTL	8087.94	105871.13

AP - Arif
(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)

उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITY OF GATE (6.0 M WIDE)

S.N.	DESCRIPTION OF ITEM	Qty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	7.18	CUM.	195.21	1401.61
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	0.83	CUM.	5108.49	4240.05
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :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)	1.75	CUM.	6783.64	11871.37
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 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)	1.46	CUM.	8138.90	11882.79
5	Centering and shuttering including strutting,propping etc.removal of from for				
	Foundations, footings, bases of columns, etc. for mass concrete	5.40	SQM	294.08	1588.03
	Columns, Pillars, Piers, Abutments, Posts and Struts	16.56	SQM	720.90	11938.10
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	4.75	Qtl.	8087.94	38417.72
7	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	1.76	CUM.	5348.65	9413.62
7	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	540.00	KG.	129.44	69897.60
8	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on smooth side of single or half brick wall.	11.75	SQM.	257.71	3028.09
9	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 @ 0.90 litre/10 sqm)	11.75	SQM.	128.31	1507.64

(अल-आसिफ अहमद)
अवर अभियन्ता (लेफ्ट)

उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(शुभ)
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

(इरफ़ात प्रमोदी)
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर ।

S.N.	DESCRIPTION OF ITEM	Qty.	Unit	Rate	Amount
10	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	16.20	SQM.	128.01	2073.76
				TOTAL	167260.38
	COST FOR ONE GATE		SAY IN	1.67	LACS

Al-Arif

Shubhan

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

Prakash
इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITY OF GATE (15M WIDE)


S.N.	DESCRIPTION OF ITEM	Qty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	14.88	CUM.	195.21	2904.72
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	1.80	CUM.	5108.49	9195.28
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :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)	4.14	CUM.	6783.64	28084.27
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 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)	1.46	CUM.	8138.90	11882.79
5	Centering and shuttering including strutting,propping etc.removal of from for Foundations, footings, bases of columns, etc. for mass concrete	8.46	SQM	294.08	2487.92
	Columns, Pillars, Piers, Abutments, Posts and Struts	16.56	SQM	720.90	11938.10
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	7.44	Qtl.	8087.94	60174.27
7	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	4.44	CUM.	5348.65	23748.01
8	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	1350.00	KG.	129.44	174744.00
9	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on smooth side of single or half brick wall.	11.75	SQM.	257.71	3028.09
10	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 @ 0.90 litre/10 sqm)	11.75	SQM.	128.31	1507.64

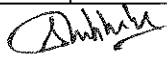
जिल्हा आवास निर्माण
अवर अभियंता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर


सहायक अभियंता
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

इकाई प्रमारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	Qty.	Unit	Rate	Amount
11	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	40.50	SQM.	128.01	5184.41
				TOTAL	334879.50
	COST FOR ONE GATE		SAY IN	3.35	LACS


 (अल-आसिफ अंसारी)
 अवर अभियन्ता (जेम)
 उ० प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर


 सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।


 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर ।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

DRAIN 300 MM X 450 MM

BILL OF QUANTITY

S. No.	DESCRIPTION	QTY	UNIT	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	4.78	Cum	195.21	933.10
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	0.68	Cum	5108.49	3473.77
3	Class-150 (Non Modular) 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.	2.07	Cum	5348.65	11071.71
4	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	13.60	Sqm	337.13	4584.97
5	25 mm thick cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of size 20 mm and below) by laid over base concrete finished with floating coat of neat cement (base concrete to be paid separately) including fixing of glass strips. (Excluding cost of glass strips).	3.00	Sqm	287.88	863.64
				TOTAL	20927.19
	Rate Per Mtr = Rs	20927.19	/	10.00	2092.70

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेन)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(अम्बिका)
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

(इकाई प्रभारी)
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

50

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

6.0 M WIDE C.C. ROAD

S.No.	DESCRIPTION OF ITEM	QTY	UNIT	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	9.80	CUM	195.21	1913.06
3	Class-150 (Non Modular) brick work in 1:4 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.	1.38	CUM	5348.65	7381.14
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	0.50	CUM	5108.49	2554.25
5	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	8.31	CUM	2193.42	18227.32
6	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-in charge. (The panel shuttering work shall be paid for separately).	8.31	CUM	7367.04	61220.10
7	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	149.58	per cm depth per cm width per m length	3.97	593.83
8	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge. Using grade 'A' sealing compound conforming to IS: 1834.	99.72	per cm depth per cm width per m length	6.49	647.18
	COST FOR 60 SQM.			Total	92536.88
	COST FOR PER SQM.				1542.28

(अन-आसिक अंशदात्री)
अवर अभियन्ता (जम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

अभियन्ता
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

**INTERLOCKING ROAD
BILL OF QUANTITY**

S. No.	DISCRIPTION	QTY.	UNIT	Rate	Amount
1	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	6.75	CUM	2,192.97	14,802.55
2	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding/ laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer in-Charge. 80mm thick Cement concrete paver block of M-30 grade with approved colour, design & pattern.	45.00	Sqm	818.54	36,834.30
		45.00 Sqm		Total	51636.85
	HENCE COST OF 1.00 SQM, Interlocking Road.			SAY RS.	1147.49

(अल-आमिर अहमद)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

अल-आमिर अहमद
अवर अभियन्ता
उ०प्र० पुलिस आवास निगम लि०
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इकाई प्रभारी
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निर्माण इकाई, कानपुर।

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**NAME OF WORK:- NON RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI,DISTRICT FATEHPUR
(EXTERNAL RAIN WATER HARVESTING WORKS)**


S.N.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
I	RAIN WATER HARVESTING				
	RECHARGE PITS				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
(A)	All kinds of soil	38.13	Cum	195.21	7,442.32
(B)	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.	20.23	Cum	95.09	1,923.74
(C)	In all kind of soil upto 3.0m to 4.5m. depth	22.59	Cum	190.18	4,296.12
(D)	In all kind of soil upto 4.5 m to 6.0m. depth	10.54	Cum	285.27	3,007.28
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	0.97	Cum	5,908.29	5,742.14
3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:4 (1 cement : 4 coarse sand)	17.28	Cum	5,527.44	95,524.99
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	1.31	Cum	6,255.01	8,220.59
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	103.17	KG	80.88	8,344.16
6	12 mm cement plaster of mix :				
	1:4 (1 cement: 4 coarse sand)	30.50	Sqm	267.91	8,171.28
7	Centering and shuttering including strutting, propping etc. and removal of form for :				

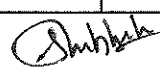
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निर्माण इकाई, कानपुर

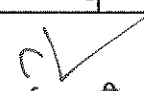
सहायक अभियन्ता
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

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	Foundations, footings, bases of columns, etc. for mass concrete	3.28	Sqm	294.08	963.42
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.				-
	Suspended floors, roofs, landings, balconies and access platform	8.76	Sqm	695.37	6,092.54
					-
8	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) as per standard design:				-
	With 20x20mm square bar	10.00	Nos.	408.48	4,084.84
					-
9	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				-
	M.D. -10- Circular shape 500mm internal diameter	2.00	No.	879.36	1,758.72
					-
10	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, beyond 90 metre & upto 150 metre depth below ground level.				-
					-
	Drilling of 400mm dia bore hole manually.	30.00	MTR	743.03	22,290.78
					-
11	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	20.00	MTR	834.93	16,698.59
					-
11	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming 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	10.00	MTR	941.68	9,416.81
					-


 (अनुराग अश्विनी)
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 निर्माण इकाई, कानपुर


 सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर।


 इकाई प्रभारी
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12	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.	1.88	cum	1,132.24	2,122.94
13	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-in-charge.	1.88	cum	1,153.57	2,162.95
14	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.	1.88	cum	1,153.57	2,162.95
15	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 Engineer-in-charge.	2.51	Cum	1,518.22	3,810.74
16	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 approved laboratory, l/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	24.00	Hrs.	813.71	19,528.95
17	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of: 200 mm dia	1.00	No.	240.84	240.84
18	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I). 200 mm dia	1.00	No.	268.17	268.17
DESILTING CHAMBER					
19	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas				
	All kinds of soil	10.05	Cum	195.21	1,961.96
20	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.	4.06	Cum	95.09	386.17

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(अल-असिफ असास)
अवर अभियन्ता (जेम)
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निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर।

इकाई प्रभारी
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निर्माण इकाई, कानपुर।

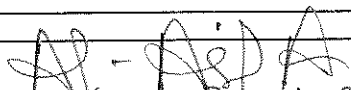
21	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	1.04	Cum	5,908.29	6,137.41
22	Brick work with common burnt clay F.P.S. (non Cement mortar 1:4 (1 cement : 4 coarse sand)	3.52	Cum	5,527.44	19,471.39
23	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	1.38	Cum	6,255.01	8,655.56
24	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	108.00	kg	80.88	8,734.98
22	12 mm cement plaster of mix :				
	1:4 (1 cement: 4 coarse sand)	17.36	Sqm	267.91	4,650.93
23	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundations, footings, bases of columns, etc. for mass concrete	0.60	Sqm	294.08	177.33
	Walls (any thickness) including attached pilasters,	1.50	Sqm	631.81	947.72
	Suspended floors, roofs, landings, balconies and	6.93	Sqm	695.37	4,815.56
24	Providing M.S. foot rests including fixing in With 20x20mm square bar	12.00	Nos.	408.48	4,901.81
25	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				
	M.D. -10- Circular shape 500mm internal diameter	2.00	No.	408.48	816.97

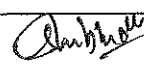
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अवर अभियन्ता (जेम)
उ० प्र० पुलिस आवास निगम लि०
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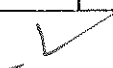
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S.N.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
III RAIN WATER DRAINAGE NETWORK					
1	Excavating trenches in all kinds of soil of required width for pipes. including excavation for sockets and dressing of sides, ramming of bottoms, including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m.				
	up to 1.50 m depth				
	Pipes 80 mm to 300 mm diameter	130.00	metre	264.09	34,331.20
2	Providing and laying Non pressure NP 2 class (light duty) RCC pipe with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc. complete.				
	150 mm. dia. RCC Pipes	130.00	metre	417.30	54,248.47
3	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40mm nominal size) upto the haunches of pipes including bed concrete as per standard design				
	150 mm. dia.	130.00	metre	557.27	72,445.03
	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 nmlinal size) finished with a floating coat of neat cement complete as per standard design.				
4	Inside size 90x80 cms 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 75				
	(i) For Sewer Line	9.00	each	9,576.96	86,192.62
5	Extra for depth for manholes:				
	Size 90x80cm with With common burnt clay FPS (non modular) bricks of class designation 7.5	1.00	metre	6,618.39	6,618.39


 (अल-आसिफ अंसारी)
 अवर अभियन्ता (जेम)
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 निर्माण इकाई, कानपुर


 सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।


 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०,
 निर्माण इकाई, कानपुर।

(57)

6	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 :	5.00	each	408.48	2,042.42
7	Providing and fixing Square- mouth SW gully trap class SP-1 Complete with CI Grating brick masonry chamber with water tight CI Cover with frame of 300 X 300mm size (inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design.			-	-
	100 x 100 mm size P type			-	-
	with common burnt clay F.P.S(non modular) brick of class designation 7.5	9.00	each	2,030.54	18,274.82
				TOTAL	570086.61
	SAY IN LACS			5.70	

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(अल-आसिक अस्मरी)
अवर अभियन्ता (जेम)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

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सहायक अभियन्ता
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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।
01/05/2018 10:00 AM
12/05/2018 10:00 AM

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITY OF TUBEWELL


Sr. No.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
A	ESTIMATE FOR 400MM X200 MM DIA TUBE WELL DRILLED BY ROTARY RIG TO A DEPTH OF 150 METER BELOW GROUND LEVEL WITH 800 LPM SUBMERSABLE PUMP SET AND PIPE LINE WORK				
1	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.				
	All types of soil				
	400 mm dia	90	M	743.03	66872.33
	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, beyond 90 metre & upto 150 metre depth below ground level				
	400 mm dia	60	M	928.78	55726.94
	Providing & lowering of assembly pipe including cutting & welding by providing a collar:				
2	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.				
	200 mm nominal size dia having minimum wall thickness 5.40 mm	100	M	1831.88	183187.99
3	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumastic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge				
	200 mm nominal size dia	50	M	1928.095	96404.76
4	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 Engineer-in-charge.				
		14.13	CUM	1518.224	21452.50
5	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of useable 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 approved laboratory, including disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.				
		48.00	HOURS	813.706	39057.91
6	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
	200 mm dia	2.00	NOS.	240.838	481.68
7	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
	200 mm clamp	2.00	NOS.	1720.066	3440.13
8	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I)				
	200 mm dia	1.00	NOS.	268.173	268.17
9	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				


अवकाश आवास निगम लि०
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निर्माण इकाई, कानपुर

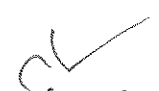
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उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
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निर्माण इकाई, कानपुर ।

	50 mm dia nominal bore	80	M	571.56	45724.44
10	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as required. 10x4 sqmm	100	M	275.00	27500.00
	Development Of Tubewell by O.P. Unit				
11	Development Of Tubewell by O.P. Unit	48	Hrs.	600.00	28800.00
12	Supply and installation of 800 LPM 7.5HP discharge submersable pump complete	1	NOS	70000.00	70000.00
13	Transportation of heavy rig machine 1 job	1	JOB	10000.00	10000.00
14	Water supply charge and drilling machine.	1	JOB	7000.00	7000.00
	COST OF 1 NOS				655916.86
	Cost of 1 Tubewell	1.0	JOB		655916.86
		Say Rs.	Say Rs.	6.56	LACS


 (अल-आसिफ असीफ)
 अवर अभियन्ता (सिंग)
 उ० प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर



 सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर।



 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०,
 निर्माण इकाई, कानपुर।

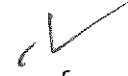
**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL
MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

SUMMARY OF COST OF PUMP ROOM

1	PUMP ROOM				
	CIVIL COST (P-66)			2.50	LACS
	ELECTRICAL COST (P-68)			0.62	LACS
	TOTAL COST OF PUMP ROOM			3.12	LACS


(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर


सहायक अभियन्ता
प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।


इकाई प्रभारी
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निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BOQ CIVIL WORK FOR PUMP ROOM

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.				
		10.82	cum	195.21	2112.79
2	Excavating, supplying, stacking 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 foundation trenches, plinth, sides of foundation etc. complete for all lift.				
		-0.61	cum	247.48	-150.50
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.				
		1.51	cum	1592.65	2408.09
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)				
		2.58	cum	5108.49	13199.01
5	Proving & injecting chemical emulsion for preconstructional anti-termite treatment and creating a chemical barrier under & alround the column pits wall trenches basement excavation top surface if plinth filling junction of wall & floor along the external perimeter of building expansion joints surrounding of pipes & conduits etc.complete plinth area of the building at ground floor only shall be measured as per I.S.63/3(part II 1981) Aldrine emulsifiable concentrate or any other approved material such as Htrachlore or Chlordance will be used . The rate of application of chemical emulsion shall be as follows: (I) Treatment for masonry & foundation 5litres/ sqm. (II) Back fill in immediate contract with foundation 7.5 litres / sqm. (III) Treatment of top surface of plinth filling 5 litres/sqm . (IV) Treatment of junction of wall and floor 7.5litres/sqm. (V) Treatment of soil along external perimeter of building 7.50 litres/sqm. (VI) Treatment of soil under Apron along external perimeter 5litres/sqm				
		11.97	sqm	232.51	2783.52
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 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) (Plinth Beam)				
		0.47	cum	8628.26	4060.29

(Signature)
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निर्माण इकाई, कानपुर

(Signature)
सहायक अभियन्ता
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	Rate	Amount
7	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). Slabs				
		1.13	cum	8628.26	9706.79
8	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). Lintels				
		0.56	cum	6783.64	3813.84
9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Suspended floors, roofs, landings, balconies and access platform (DSR 5.9.3)	9.00	sqm	695.37	6258.33
	Lintels, beams, plinth beams, girders, bressumers and cantilevers (DSR 5.9.5)	9.74	sqm	552.24	5381.25
	Weather shade, Chajjas, corbels etc., including edges (DSR 5.9.19)	1.70	sqm	713.25	1211.10
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)				
		7.80	cum	5348.65	41697.77
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)				
		8.20	cum	6828.78	56028.91
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)				
		0.71	cum	7007.56	4946.43
13	Providing & 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.				
		3.14	sqm	109.60	343.84

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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
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इकाई प्रभारी
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S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	Rate	Amount
14	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 Engineerin-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 Engineerin-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. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
		7.43	sqm	1263.32	9388.24
15	Supply and fixing of flush doors commercial quality conforming to IS : 2202 (Part I-1983) including fixing of wooden cleats and stoppers and including fixing and adjustment of hinges bolts locks handle springs fitting with necessary screw to be supplied departmentally.				
	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
		1.89	sqm	2375.73	4490.13
16	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				
		2.00	kg	129.44	258.88
b	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				
	Fabrication of Grill/Stairs case railing				
		27.00	kg	129.44	3494.88

(अवर-आसिफ अंसारी)
अवर अभियन्ता (जिम्)

उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(अभियन्ता)
अभियन्ता

उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
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S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	Rate	Amount
c	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)				
		54.00	kg	146.39	7905.06
d	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, 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).				
		39.00	kg	106.26	4144.14
17	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.				
		2.28	qtl	8087.94	18472.37
18	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on smooth side of single or half brick wall.				
		37.37	sqm	257.71	9630.62
19	15 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on rough side of single or half brick wall.				
		52.92	sqm	296.48	15689.60
20	Making grooves 10 to 12 mm wide x 8mm deep in plaster the all or in ceiling vertically or horizontally as required.				
		12.60	metre	58.79	740.75
21	Add for plaster drip course in plastered surface or moulding to R.C.C. projections.				
		5.52	metre	58.79	324.52
22	40 mm thick cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
		9.00	sqm	460.60	4145.40
23	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.				
		2.57	sqm	496.49	1273.50

अधीक्षक अभियन्ता (जेम)
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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
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S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	Rate	Amount
24	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture				
		8.94	sqm	128.01	1144.41
25	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture				
		3.78	sqm	132.17	499.60
26	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 : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre				
		37.37	sqm	139.22	5202.65
27	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)				
		52.92	sqm	87.67	4639.46
28	White washing with lime to give an even shade : New work (three or more coats)				
		11.84	sqm	29.28	346.62
29	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with:				
	4.0 mm thick glass panes				
		1.80	sqm	798.41	1437.14
30	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete size 250x16 mm				
		1.00	each	145.26	145.26
31	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :250x10 mm				
		2.00	each	62.92	125.84
32	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :125 mm				
		2.00	each	29.96	59.92

अभिषेक अग्रवाल
अग्र अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
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सहायक अभियन्ता
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S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	Rate	Amount
33	Making khurras 45x45 cm 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 x 1 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. (12.22)				
		1.00	each	224.12	224.12
34	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.(12.41.2)				
	110 mm diameter	3.75	Rmt.	283.02	1061.33
35	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	Coupler				
	110 mm	1.00	each	102.10	102.10
	Bend 87.5°				
	110 mm bend	1.00	each	112.75	112.75
	Shoe (Plain)				
	110 mm Shoe	1.00	each	98.88	98.88
36	Providing and fixing unplasticised -PVC pipe clips 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	4.00	each	278.45	1113.80
37	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	1.00	each	41.02	41.02
				Total	250114.42
		SAY IN	2.50		LACS

अरुण कुमार (जे.ए.)
अवर अभियन्ता (जे.ए.)

उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता

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इकाई प्रभारी
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निर्माण इकाई, कानपुर।

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**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITY OF FIRE STATION INTERNAL ELECTRIFICATION WORK					
<u>S.No.</u>	<u>Description of Item</u>	<u>Unit</u>	<u>Qty.</u>	<u>RATE</u>	<u>Amount</u>
	Point Wiring				
1	Wiring point for Light with 1.5sq. mm. FR PVC insulated multistrand single core copper cable in PVC conduit with 1.5 sq.mm. FR PVC-insulated multistrand Copper conductor cable as earth wire drawn in side the conduit. Add for light/fans with modular type switch.	each	4	897.70	3590.8
4	Wiring point for plug with 1.5 sq.mm FRLSH PVC insulated multistrand single core copper conductor cable in PVC conduit pipe Partly concealed in the wall and partly Laid in slab along with the reinforcement before concreting ,complete with 1.5sqmm. FRLSH PVC insulated multistrand single core copper conductor cable as earth continuity wire , GP box, piano type switch & socket etc.complete in all respect,as directed, including matching colour wash.	each	2	483.96	967.9
7	Supply fixing & concealing of PVC 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.				
A	Size 20 mm dia 16SWG (2 mm)thick	MTR	20	114.01	2280.1
B	Size 25 mm dia 16SWG (2 mm)thick	MTR	25	126.84	3171.0
	Submains				
15	Supply & wiring of submains with 2 nos.2.5 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 1.5 sqmm. FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	mnt	25	234.81	5870.1
22	Supply & wiring of submains with 4 nos.10 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 40 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 2 no. 6 sqmm. FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	mnt	30	234.81	7044.2
	Switches				
24	Supply and fixing of 63 amp DP 30 mA ELCB/ RCCB of Din Rail mounting in DB complete in all respect with connections as required.	each	1	2163.83	2163.8

(असिफ अंसारी)
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निर्माण इकाई, कानपुर

(सहायक अभियन्ता)
सहायक अभियन्ता
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(इकाई प्रभारी)
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	Light & Fan Fixture				
26	Supply & fixing of Batton/Angle holder including making connection etc. as required.	each	2	116.27	232.5
35	Supply and fixing of LED Tube Light with Metal heavy duty Box type batten Light fitting 1X22 watt suitable for upto 1X22 watt LED Polycarbonate tube light complete including tube suitable for both surface & suspended complete in all respect. CAT. - AAA	each	2	711.21	1422.4
	DBs & MCBs				
73	Supply and fixing of 240 volts C Curve 6-32 amp SP miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required. CAT A	each	1	215.18	215.2
75	Supply and fixing of 80-100 amp 4 pole MCCB (16 KA) thermal magnetic release. CAT A	each	1	6300.00	6300.0
76	Supply and fixing of flush/surface mounting 4 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	2	1590.00	3180.0
77	Supply and fixing of flush/surface mounting 6 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge	each	2	1804.45	3608.9
80	Supply and fixing of flush/surface mounting 12 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	1	7740.00	7740.0
82	Supply and fixing of flush/surface mounting 6 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	1	4000.75	4000.7
83	Supply and fixing of flush/surface mounting 4 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	1	3304.63	3304.6
84	Supply and fixing of flush/surface mounting 4 ways V TPN distribution board without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	1	6003.00	6003.0
85	Supply & Fixing of MCB blanking plate for DB.	each	2	25.00	50.0
					61145.30
	SAY IN LACS			Rs.	0.62

अभिल-आसिफ अंसारी
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उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर


सहायक अभियन्ता
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उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।


**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) &
RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

SUMMARY EXTERNAL LIGHTING & TRANSFORMER

EXTERNAL LIGHTING	(P-71)	1			3.24
TRANSFORMER	(P-75)	1			10.42
				TOTAL COST OF ESS	13.66


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 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर


 सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।


 इकाई प्रभारी
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 निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

70

**BILL OF QUANTITY
STREET POLE WITH LED LAMP**

S.No.	Description of Items	Unit	Qty.	Rate	Amount
	Street Pole with LED Lamp :				
1	Supply & fixing of 7 mtr GI Octagonal Pole of approved make (top dia 70mm, Bottom dia 130mm and base plate 12mm thick) having 3mm thickness with single arm bracket (1 Mtr length) on RCC foundation including the cost of foundation, foundation bolts, excavation & back filling and Required T&P complete in all respect.	Each	8	17380.00	139040.00
2	Suppling Installation Testing and commissioning of Smart Bright Street is an IP66 street light luminaire with reliable savings and lasting brightness Philips Cat. Ref. BRP062 LED 65 CW SLA S1 PSU or equivalent.	Set	8	4397.88	35183.00
3	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	Each	8	193.28	1546.24
4	Supply and fixing following capacity of 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.				
	40 A TPN (For Street Light)	Each	1	30500.00	30500.00
	Armoured Cables (Cable/Gland/Lug) :				
5	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.Following size				
	size 6 sq mm x 2 core	Rmt.	40	280.00	11200.00
	size 10 sq mm x 4 core	Rmt.	60	330.00	19800.00
	size 25 sq mm x 3-1/2core	Rmt.	50	380.00	19000.00
6	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.				
	size 6 sq mm x 2 core	Each	5	181.20	906.00
	size 10 sq mm x 4 core	Each	4	203.10	812.40
	size 25 sq mm x 3-1/2core	Each	2	236.32	472.64
	Earthing Work :				
7	Earthing with GI earth plate 600mm x 600 mm x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc, with charcoal/ coke and salt as required.	Each	1	6305.01	6305.01
8	Supplying and laying 25 mm x 5 mm. G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Rmt.	20	120.80	2416.00

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कानपुर ।

S.No.	Description of Items	Unit	Qty.	Rate	Amount
9	Providing and fixing 25 mm x 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Rmt.	80	592.68	47414.40
10	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required.				
	50 mm dia	Rmt.	20	493.92	9878.40
				Total	324474.09
		SAY IN		3.24	Lacs

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(अल-आसिफ अंसारी)

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निर्माण इकाई, कानपुर

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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर ।

NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY					
AT BINDKI , DISTRICT FATEHPUR (U.P.)					
Name Of Work -Substation Equipment Work					
Sr.No.	Particulars	Qty	Unit	Rate	Amount
				-	-
A	Subhead-I HT Work				
1	11 KV DOUBLE POLE STRUCTURE				
	Supply, erection, testing and commissioning of 2 pole structure for providing 1 No. 11KV,200A GOS in accordance with IE rules, & local authority specification and drawings and comprising of the following.	1.00	Set	1,35,000.00	1,35,000.00
	a. 2 Nos. 11 mtr. long MS STEEL poles complete with, pole excavation, MS STEEL foundation, and back filling complete MS steel channel/angle iron etc.			-	-
	b. 1 Set of cross arms, branching, clamps and painting complete with GI nut, bolts & washers as required (for GO & DO), LA connection.			-	-
	c. 1 set 11KV Insulator complete with spindles & hardware complete as required.			-	-
	d. 1 No. 11KV 400A TP Gang operated Air break switches complete with 25mm dia GI pipe operating machanism, handle & locking arrangement.			-	-
	e. 1 set of 3 nos.11KV single pole drop out fuse complete with barrel fuses, and mounting arrangement.			-	-
	f. 1 set (3 nos.) 11KV lightning arrestor and connecting to all phases.			-	-
	g. 4 No. 150 mm dia 6 meter long GI pipe class 'B' (for XLPE cable protection) as required.			-	-
	h. 2 Set 50mm dia 3m long GI pipe earthing with 25 x 6 mm GI earth strip complete as required (for GO & DO & LA)			-	-
	i 1 nos. 11KV HT danger boards and 2 set of anticlimbing devices.			-	-
	11 KV Double Pole Structure described below			-	-
				-	-
2	Supply of 3 core standered aluminium conductor XLPE (Cross linked polyethylene) insulated PVC bedded, Galvanised flat steel strip armoured cables confirming to I.S. 7098 (Part-II with latest amendments) II KV grade as per requirement.			-	-
	120 sq. mm 3 core	95.00	Meter	1,529.00	1,45,254.87
				-	-
3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.			-	-
	Upto 120 sq. mm	45.00	Meter	474.14	21,336.30
				-	-
4	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.			-	-
	Upto 120 sq. mm	45.00	Meter	326.16	14,677.20
				-	-
5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.			-	-
	Upto 120 sq. mm	10.00	Meter	73.99	739.90
				-	-
6	supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :			-	-
	120 sq. mm	6.00	Each	12,071.70	72,430.17
				-	-

अवरोधक अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
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7	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :			-	-
	120 sq. mm	2.00	Each	16,120.01	32,240.01
8	Supply and laying of 1800mm x 900mm x 12mm thick chequered rubber matting of tested quality.	2.00	Each	2,925.93	5,851.86
9	Supply and fixing of shock treatment chart (prescribed under I.E. rules) duly framed with glass and supported from back with hard board or soft board with supply of all material labour T&P for proper completion of work.	2.00	Each	247.98	495.95
10	Supply and fixing of CO2 type fire extinguisher 4.5 kg. capacity (ISI Marked IS : 2878 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	1.00	Each	10,800.00	10,800.00
11	Supply and laying of PVC Insulated, FRLS Round Sheathed Multi Core Industrial Flexible Cable conforming to IS 694:2010 with Flexible Bright Annealed Copper Conductor for Voltage Grade 1100 Volts as per direction of engineer incharge.			-	-
	10CX2.5Sq.mm	50.00	Meter	559.67	27,983.64
				-	-
				-	-
	Total For Subhead-I HT Work				-
B	Subhead-II Transformer				
1	TRANSFORMER				
	11/0.433 KV, 3 Phase, 50 Hz outdoor/ indoor mounting(Mineral oil filled) Supply, installation, testing and commissioning of following capacity (continuous loading) BEE 5 Star rated (Corresponding Level as per BIS amended upto date of receipt of tender) , 11/0.433 KV step down, 3 Phase, 50 Hz, Dyn 11 vector group, ONAN (Oil Natural Air Natural) copper wound transformer (Electrolytic grade 99.9% pure copper, Core made of first grade Cold Rolled Grain Oriented (CRGO) Core grade MOH or better, suitable for out door/indoor applications with On Load Tap Changer (OLTC) on HV side having AVR relay and Remote Tap Changer Control (RTCC) for automatic sensing of incoming voltage, automatic operation of OLTC and facility for remote and manual operation of OLTC HV side in range of +5% to -15% in steps of 2.5%, having cable end boxes on HV side suitable for 3x300 sqmm XLPE cable of 11 KV grade, including bus trunking arrangement on LV side including supplying and laying of copper conductor multicore control cable from transformer to HT breaker/panel for safety tripping, complete with all accessories and safety provisions as per relevant IS Code including first filling of filtered dehydrated oil, i/c supplying and grouting of suitable M.S. Channel with all accessories and transformer shall be conforming to IS : 2026 (Part 1 to Part 5), IS : 1180 and duly ISI Marked and as per CPWD specifications complete in all respects etc as required at site. The maximum flux density in any part of the core and yoke at rated voltage and frequency shall be such that the flux density with + 12.5 percent				

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निर्माण इकाई, कानपुर

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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
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	combined voltage and frequency variation from rated voltage and frequency does not exceed 1.9 Tesla. The permissible temperature-rise shall not exceed 35 dg.C for oil and 40 dg. C up to 200 KVA and 40 dg.C for oil and 45 dg. C for above 200 KVA for winding. Inside of tank shall be painted with varnish or liquid resistant paint. For external surfaces one coat of thermo setting powder paint or one coat of epoxy primer followed by two coats of polyurethane base paint shall be used. IS: 1180 (Part 3) shall be referred to for paint thickness for normal to medium corrosive atmosphere. For highly polluted atmosphere and special application external paint work shall be as per direction of Engineer-in-Charge. Design ambient condition : a) air temperature 50 deg C, b) Relative Humidity 90 % Max, c) Seismic Zone as				
	per location of site, d) Altitude as per location/site. Noise level Shall not exceed limits as per NEMA TR-1 with all accessories running measured as per IEC 551 / NEMA standard. The transformer should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location etc. Marking Each transformer shall be provided with rating plate made of anodized aluminum/ stainless steel material securely fixed on the outer body, easily accessible, as per IS: 1180 Part-3. The entries on the rating plate shall be indelibly marked.				
	Fitting and Accessories : The following fittings shall be provided:- a) Two earthing terminals with the earthing symbol b) Oil level gauge indicating oil level at minimum, 30°C and maximum operating temperature; c) Air release device (for non-sealed type transformers) d) Rating and terminal marking plates; e) Silica gel breather f) Drain-cum-sampling valve (¾" nominal size thread, IS 554) preferably steel with plug for three phase transformers; g) Thermometer pocket with cap; h) Oil filling holes having (1¼" nominal size thread) with cover (for sealed type transformers without conservator); i) Lifting lugs for the complete transformer as well as for core and winding				
	assembly; j) Pressure relief device or explosion vent above 200 kVA; k) One filter valve on the upper side of the tank (for transformers above 200 kVA); l) Unidirectional flat rollers (for transformers above 200 kVA); m) Inspection hole (for transformers above 200 kVA); n) HV side neutral grounding strip (where one of the HV bushing terminal is connected to earth);				
	o) Buchholz relay for transformers above 800 kVA. p) Arcing horns or suitable rating lightning arrestors for HT side – 3 Nos. q) Bird guard; r) Oil temperature indicator and winding temperature indicators for transformers above 200 kVA with suitable tripping mechanism above permissible limit s) Jacking pads (for transformer above 1600 kVA); t) Additional Neutral separately brought out on bushing for earthing. u) Magnetic oil level gauge (for transformer above 1600 kVA) with low oil level alarm contact; v) Non return valve (for conducting pressure test); w) Pressure relief device or explosion vent x). Monogram Plate y) Inspection cover z). Detachable type radiators with top and bottom shutoff valve. aa) Oil Conservator with Oil level indicator, minimum level marking and drain plug for all transformers of capacity 50 KVA and above. bb) Necessary hardware, clamps, lugs etc. for termination on HV/MV etc. for all transformers.				
	250 KVA	1.00	Each	4,69,826.69	4,69,826.69
2	Supply and burying of 600mm x 600mm x 6mm G.I. plate vertically for earthing with its top at least 3 metres below ground level complete with 20mm dia G.I. pipe and funnel for watering and one earthing lead of two no. 8 to 10 SWG GI wire in 15mm dia G.I. pipe up to switch board (from appron 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. as per directions of Engineer-in-charge complete in all respect.	6.00	Each	4,815.00	28,890.00

अवर अभियन्ता (जेम)
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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
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3	Supply and burying of 600mm x 600mm x 3mm copper plate vertically for earthing with its top at least 3 metres below ground level complete with 20mm dia G.I. pipe and funnel for watering and two earthing lead of two no. 8 SWG copper wire in 15mm dia G.I. pipe up to switch board (from appron to switch board the cost of G.I. pipe and copper 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 alround etc. complete in all respect.	2.00	Each	11,328.02	22,656.04
4	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	15.00	Meter	773.12	11,596.80
5	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	25.00	Meter	120.80	3,020.00
6	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	25.00	Meter	940.73	23,518.25
7	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	45.00	Meter	216.69	9,750.83
8	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	100.00	Meter	63.42	6,342.00
Total For Subhead-II Transformer					
Grand Total					10,42,410.50
SAY IN LACS					10.42

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निर्माण इकाई, कानपुर

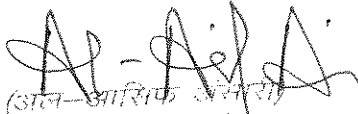
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।


उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।


**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) &
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

SUMMARY OF COST OF PUMP ROOM

	EXTERNAL WATER SUPPLY			0.29	LACS
	EXTERNAL SEWERAGE			3.15	LACS
	TOTAL COST OF PUMP ROOM			3.44	LACS


(अति-आसिफ अमीर)
अवर अभियन्ता (जेनरल)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर


सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।


इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर ।

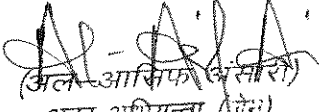
**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**


**BILL OF QUANTITY
EXTERNAL WATER SUPPLY SYSTEM IN THE CAMPUS**

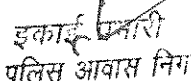
SN	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
A	WATER DISTRIBUTION SYSTEM				
1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil 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				
	Pipes, cables etc.not exceeding 80 mm dia.	50	Rmt.	161.68	8084.19
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
	40 mm nominal dia Pipes	50	Rmt.	422.25	21112.27
				G. TOTAL	29196.46

SAY

0.29 Lacs


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निर्माण इकाई, कानपुर


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उत्तर प्रदेश पुलिस आवास निगम लि०
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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

**BILL OF QUANTITY
EXTERNAL SEWER SYSTEM IN THE CAMPUS FOR BOTH CAMPUS**

SN	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	Excavating trenches in all kinds of soil of required width for pipes. including excavation for sockets and dressing of sides, ramming of bottoms, including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m.				
	1.50 m depth				
	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	130.00	Rmt.	264.09	34331.20
3	Providing and laying Non pressure NP 2 class (light duty) RCC pipe with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc. complete.				
	150 mm diameter	130.00	Rmt.	417.30	54248.47
4	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) in R.C.C. pipes including bed concrete as per standard design :				
	150 mm diameter S.W. pipe	130.00	Rmt.	884.80	115023.91
6	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	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 common burnt clay F.P.S. (non modular) bricks of class designation 7.5	9	Each	9576.96	86192.62
8	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	18	Each	408.48	7352.72

(Signature)
अवर अभियन्ता (जेम)

उत्तर प्रदेश पुलिस आवास निगम लि०
उ० प्र० पुलिस आवास निगम लि० निर्माण इकाई-कानपुर ।
निर्माण इकाई, कानपुर

(Signature)
सहायक अभियन्ता

(Signature)
इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

9	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	9	each	2030.54	18274.82
			TOTAL		315423.74

SAY

3.15

Lacs

(Signature)
अवर अभियन्ता (निर्माण)

उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

(Signature)
उ० प्र० पुलिस आवास निगम लि०

उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

(Signature)

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

HOSE WASHING LINE

ABSTRACT OF COST

S. N.	Items	Qty.	Unit	Rate	Amount (In Rs.)
1	E/W in excavation.	7.94	Cum.	195.21	1549.28
2	Providing and laying Cement concrete 1:4:8 (1cement :4 C sand :8 graded brick aggregate 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.	2.16	Cum.	5108.49	11034.34
3	(a) B/W in foundation (1:4) (3.14*1.50)	6.47	Cum.	5527.44	35762.51
4	R C C (1:1.5:3) in slab	3.60	Cum.	8628.26	31061.74
5	Reinforcement for R.C.C. work @ 1.0%	2.83	Qtl.	8087.94	22888.87
6	Painting on DPC	1.66	Sqm	109.60	181.94
7	12 mm cement plaster	23.78	Sqm	257.71	6127.83

Total **108606.51**Say Rs. **1.09**

AP- Ail A
(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर ।



**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

**BILL OF QUANTITY FOR
U.G. TANK (100 K.L.) [CIVIL WORKS]**

S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	328.32	cum	195.21	64091.35
2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. All kinds of soil	172.85	cum	95.09	16436.31
	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.				
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	7.63	cum	5108.49	38977.78
5	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	1297.10	kg	13.61	17653.53
6	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. All works upto plinth level Concrete of M30 grade	55.00	cum	7240.75	398241.25
7	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns, etc. for mass concrete	10.34	sqm	294.08	3040.79
b	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	169.06	sqm	631.81	106813.80
c	Suspended floors, roofs, landings, balconies and access platform	50.21	sqm	695.37	34914.53

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	58.11	qtl	8087.94	469990.19
9	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	73.60	sqm	308.78	22726.21
10	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 20 mm cement plaster	111.18	sqm	440.36	48959.22
11	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :				
	Dumb bell with central bulb (180 mm wide, 8 mm thick)	27.26	metre	200.90	5476.53
12	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.				
	For vertical surface two coats @ 0.70 kg per sqm	109.44	sqm	354.64	38811.80
	For horizontal surface one coat @1.10 kg per sqm.	69.44	sqm	272.07	18892.54
13	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	L D- 2.5				
	Rectangular shape 600x450 mm internal dimensions	1.00	each	1078.13	1078.13
14	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 20 x 20 mm square bar	10.00	each	408.48	4084.80
				TOTAL COST	1290188.76
				SAY IN LACS.	12.90

Al-Ali
(अल-आलिफ अंसारी)
अवर अभियन्ता (जेम)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

रुई
इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

SUMMARY (ELECTRICAL SUB STATION)

1	ELECTRICAL SUB STATION (VCB)ROOM				
	CIVIL COST (P-89)	1			4.62
	ELECTRICAL COST (P-91)	1			0.81
	TOTAL COST OF ELECTRICAL SUB STATION				5.43

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
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निर्माण इकाई, कानपुर

(सहायक अभियन्ता)
सहायक अभियन्ता
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(इकाई प्रभारी)
इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BOQ CIVIL WORK FOR ELECTRICAL SUB STATION

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.				
		25.56	cum	195.21	4989.66
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.				
		2.57	cum	1592.65	4085.15
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)				
		4.05	cum	5108.49	20679.96
5	Proving & injecting chemical emulsion for preconstructional anti-termite treatment and creating a chemical barrier under & around the column pits wall trenches basement excavation top surface if plinth filling junction of wall & floor along the external perimeter of building expansion joints surrounding of pipes & conduits etc.complete plinth area of the building at ground floor only shall be measured as per I.S.63/3(part II 1981) Aldrine emulsifiable concentrate or any other approved material such as Htrachlore or Chlordance will be used . The rate of application of chemical emulsion shall be as follows:				
	(I) Treatment for masonry & foundation 5litres/ sqm.				
	(II) Back fill in immediate contract with foundation 7.5 litres / sqm.				
	(III) Treatment of top surface of plinth filling 5 litres/sqm .				
	(IV) Treatment of junction of wall and floor 7.5litres/sqm.				
	(V) Treatment of soil along external perimeter of building 7.50 litres/sqm.				
	(VI) Treatment of soil under Apron along external perimeter 5litres/sqm				
		22.11	sqm	232.51	5140.66
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 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) (Plinth Beam)				
		0.75	cum	8628.26	6483.36

AP. Asari
(अव-आसिक असासी)
अवर अभियन्ता (जेम)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Shubh
सहायक अभियन्ता
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount
7	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). Slabs				
		3.24	cum	8628.26	27980.80
8	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). Lintels				
		1.06	cum	6783.64	7180.99
9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Suspended floors, roofs, landings, balconies and access platform	17.10	sqm	695.37	11890.83
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	17.54	sqm	552.24	9687.50
	Weather shade, Chajjas, corbels etc., including edges	4.12	sqm	713.25	2935.74
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)				
		14.75	cum	5348.65	78906.94
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)				
		12.26	cum	6828.78	83752.36
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)				
		0.97	cum	7007.56	6810.40
13	Providing & 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.				
		5.01	sqm	109.60	549.03

Al-Arif Ali

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Shubh

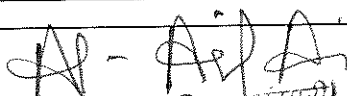
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

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इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

96

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount
14	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. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
		19.95	sqm	1263.32	25202.86
15	Supply and fixing of flush doors commercial quality conforming to IS : 2202 (Part I-1983) including fixing of wooden cleats and stoppers and including fixing and adjustment of hinges bolts locks handle springs fitting with necessary screw to be supplied departmentally.				
	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
		4.20	sqm	2375.73	9978.07
16	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				
		4.00	kg	129.44	517.76


 (अल-आसिफ अंसारी)
 अवर अभियन्ता (जेम)
 उ०प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर

सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।

इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर ।

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount
c	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)				
		198.00	kg	146.39	28985.22
d	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, 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).				
		34.20	kg	106.26	3634.09
17	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.				
		4.97	qtl	8087.94	40212.28
18	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on smooth side of single or half brick wall.				
		62.62	sqm	257.71	16137.16
19	15 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) in single coat on rough side of single or half brick wall.				
		84.40	sqm	296.48	25023.42
21	Making grooves 10 to 12 mm wide x 8mm deep in plaster the all or in ceiling vertically or horizontally as required.				
		25.84	metre	58.79	1519.13
22	Add for plaster drip course in plastered surface or moulding to R.C.C. projections.				
		12.04	metre	58.79	707.83
23	40 mm thick cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
		17.10	sqm	460.60	7876.26
24	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.				
	18 mm thick.	5.64	sqm	496.83	2802.12

अरवि आशिष अंसारी
अवर अभियन्ता (जेन)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहचरक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।



S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount
25	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture				
		12.24	sqm	128.01	1566.84
26	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture				
		15.12	sqm	132.17	1998.41
27	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)				
		84.40	sqm	87.67	7399.50
28	Distemping 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 : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre				
		52.72	sqm	139.22	7339.33
29	White washing with lime to give an even shade : New work (three or more coats)				
		21.22	sqm	29.28	621.20
30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with: 4.0 mm thick glass panes				
		3.60	sqm	798.41	2874.28
31	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete size 250x16 mm				
		2.00	each	145.26	290.52
32	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :250x10 mm				
		4.00	each	62.92	251.68
33	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :125 mm				
		4.00	each	29.96	119.84
34	Making khurras 45x45 cm 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 x 1 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.				
		2.00	each	224.12	448.24

अधीक्षक अभियन्ता (जेम)
अवर अभियन्ता (जेम)

उ०प्र० पुलिस आवास निगम लि०, प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर निर्माण इकाई-कानपुर ।

सहायक अभियन्ता

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	Amount
35	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
	110 mm diameter	11.50	Rmt.	283.02	3254.73
36	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	Coupler				
	110 mm	2.00	each	102.10	204.20
	Bend 87.5°				
	110 mm bend	2.00	each	112.75	225.50
	Shoe (Plain)				
	110 mm Shoe	2.00	each	98.88	197.76
37	Providing and fixing unplasticised -PVC pipe clips 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	6.00	each	278.45	1670.70
38	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	2.00	each	41.02	82.04
				TOTAL	462214.33
			SAY IN	4.62	LACS

AP. A. A.

(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Shubh
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

99

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

BILL OF QUANTITY OF FIRE STATION					
INTERNAL ELECTRIFICATION WORK					
S.No.	Description of Item	Unit	Qty.	RATE	AMOUNT
	Point Wiring				
1	Wiring point for Light with 1.5sq. mm. FR PVC insulated multistrand single core copper cable in PVC conduit with 1.5 sq.mm. FR PVC-insulated multistrand Copper conductor cable as earth wire drawn in side the conduit. Add for light/fans with modular type switch.	each	4	897.70	3590.8
4	Wiring point for plug with 1.5 sq.mm FRLSH PVC insulated multistrand single core copper conductor cable in PVC conduit pipe Partly concealed in the wall and partly Laid in slab along with the reinforcement before concreting ,complete with 1.5sqmm. FRLSH PVC insulated multistrand single core copper conductor cable as earth continuity wire , GP box, piano type switch & socket etc.complete in all respect,as directed, including matching colour wash.	each	2	483.96	967.9
7	Supply fixing & concealing of PVC 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 thrading 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.				
A	Size 20 mm dia 16SWG (2 mm)thick	MTR	25	114.01	2850.1
B	Size 25 mm dia 16SWG (2 mm)thick	MTR	35	126.84	4439.4
	Submains				
15	Supply & wiring of submains with 2 nos.2.5 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 20 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 1 no. 1.5 sqmm. FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	mt	37	234.81	8687.8
22	Supply & wiring of submains with 4 nos.10 sq.mm FRLSH PVC insulated 1100 V grade multistrand single core copper conductor cable in 40 mm dia heavy gauge PVC conduit partly concealed in wall and partly laid in slab along with the reinforcement before concreting, with 2 no. 6 sqmm. FRLSH PVC insulated multistrand copper conductor cable as earth continuity wire including matching colour wash etc.complete in all respect.	mt	40	813.89	32555.6
	Switches				
24	Supply and fixing of 63 amp DP 30 mA ELCB/ RCCB of Din Rail mounting in DB complete in all respect with connections as required.	each	2	2163.83	4327.7
	Light & Fan Fixture				
26	Supply & fixing of Batton/Angle holder including making connection etc. as required.	each	2	116.27	232.5
35	Supply and fixing of LED Tube Light with Metal heavy duty Box type batten Light fitting 1X22 watt suitable for upto 1X22 watt LED Polycarbonate tube light complete Including tube suitable for both surface & suspended complete in all respect.CAT. - AAA	each	2	1190.00	2380.0


(अल-आमिन अंशुव)
अवर अभियन्ता (जेन)
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(अमिता)
सहायक अभियन्ता
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।


(✓)
इकाई प्रगारी
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निर्माण इकाई, कानपुर।

91

S.No.	Description of Item	Unit	Qty.	RATE	AMOUNT
	DBs & MCBs				
73	Supply and fixing of 240 volts C Curve 6-32 amp SP miniature circuit breaker (10 K A) in existing MCB, DB complete with connections as required. CAT A	each	2	215.18	430.4
76	Supply and fixing of flush/surface mounting 4 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	4	1590.00	6360.0
77	Supply and fixing of flush/surface mounting 6 ways SPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge	each	4	1804.45	7217.8
83	Supply and fixing of flush/surface mounting 4 ways TPN distribution boards (Legrand Lexic) without MCB with additional metal door complete in all respects. As directed by engineer incharge. CAT A	each	2	3304.64	6609.3
85	Supply & Fixing of MCB blanking plate for DB.	each	4	25.00	100.0
				TOTAL	80749.22
			SAY IN	0.81	LACS


 (अल-आसिफ अंसारी)
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 उ० प्र० पुलिस आवास निगम लि०
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 सहायक अभियन्ता
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।


 इकाई प्रभारी
 उ० प्र० पुलिस आवास निगम लि०
 निर्माण इकाई, कानपुर।

(92)

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) &
RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

ABSTRACT OF COST EARTH FILLING

S.No.	DESCRIPTION OF ITEM	QTY	UNIT	RATES	AMOUNT
1	Excavating, supplying, stacking 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 foundation trenches, plinth, sides of foundation etc. complete for all lift.	5771.06	CUM.	330.00	1904449.80
				Total	1904449.80
		Say Rs	19.04	Lacs	

(अल-आसिफ अंसारी)
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निर्माण इकाई, कानपुर

Shahid
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर

✓
इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

BILL OF QUANTITY FOR CIVIL WORK OF DG SET PLATFORM

S.N.	Description of Item	Total Qty	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	3.45	cum	195.21	673.47
2	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 8km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	0.68	cum	330.00	224.40
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	1.30	cum	5108.49	6641.04
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :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)	1.05	cum	6783.64	7122.82
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation-7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	2.07	cum	5348.65	11071.71
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	0.82	qtl.	8087.94	6632.11
8	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement: 4 coarse sand)	4.50	sqm	308.78	1389.51
9	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 @ 0.90 litre/10 sqm)	4.50	sqm	87.67	394.52
10	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 20 mm cement plaster	1.22	sqm	440.36	537.24
11	25 mm thick cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.	6.00	sqm	287.88	1727.28
				TOTAL	36414.10
				Say In Lacs.	0.36

Al - Arif Ali
(अल-आसिफ अंसारी)

अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Shubh

अवर अभियन्ता (जेम)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

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BILL OF QUANTITY FOR CIVIL WORK OF TRANSFORMER PLATFORM

S.N.	Description of Item	Qty	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	2.89	cum	195.21	564.16
2	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 8km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	1.13	cum	330.00	372.90
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	1.05	cum	5108.49	5363.91
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :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)	0.70	cum	6783.64	4748.55
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation-7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	2.44	cum	5348.65	13050.71
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	0.55	qtl.	8087.94	4448.37
8	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement: 4 coarse sand)	6.00	sqm	308.78	1852.68
9	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 @ 0.90 litre/10 sqm)	6.00	sqm	87.67	526.02
10	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	44.88	Kg	97.87	4392.41
11	Providing & fixing welded steel wire fabric fencing	7.20	sqm	49.87	359.06
12	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	0.86	sqm	169.67	145.92
13	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 20 mm cement plaster	5.94	sqm	440.36	2615.74
14	25 mm thick cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.	4.00	sqm	287.88	1151.50
				TOTAL	39591.93
				Say In Lacs.	0.40

उत्तर प्रदेश पुलिस आवास निगम लि०
(निर्माण इकाई-कानपुर)

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर

ANALYSIS OF RATE

OPEN SURFACE DRAIN (SIZE = 150 MM. X 150 MM)

F.S Birmdaki Distt.- Fatehpur

AR-III

S.No.	Description of Item	Qty.	Unit	Rate	Amount
1	Earth work in excavation	0.12	Cum	195.21	23.28
2	P.C.C. 1:4:8	0.04	Cum	5108.49	203.06
3	Brick work in 1:4 in foundation	0.03	Cum	5527.44	190.70
4	15 MM thick plaster (1:4) with	0.30	Sqm.	308.78	92.63
	neat cement finish	0.23	Sqm.	308.78	71.02
5	25 MM thick flooring (1:2:4)	0.15	Sqm.	287.88	43.18
				TOTAL	623.87

अनि-आलिक इकाई
अवर अभियन्ता (जम)
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

FIRE STATION						
BILL OF QUANTITY LIFT WORK(FIRE STATION BUILDING)						
S.No.	ITEM CODE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1		8 PASSENGER LIFT (G+6)				
A		Supply Installation , Testing & Commissioning of 8 Passenger, 544Kg,1.5 mps. Automatic Elevator, with VVVF and Microprocessor based Simplex Collective Selective with/without Provision of attendant control. Separate Landing Push Button Box for all Landings with scrolling indicator. with provision of Attendant control, having 7 stops , 7 Openings with SS Cabin (Hair Line Finish) having Cross flow fan for Ventillation , having sleek (SS hair Line finish-PVC) and LED small Circular lighting all complete.	SET	1	1528992.56	1528992.56
		Other Features				
	1	Battery Operated Emergency Light And Alarm Bell				
	2	Call Register Signal And Vt Door Operator				
	3	False Ceiling In Car				
	4	Vandal Proof S.S. Button With S.S. Cover				
	5	Firemans Switch				
	6	Infra Red Door Screen				
	7	Full Car Operating Panel				
	8	3 Way Intercom / Press And Speak Phone				
	9	Push Button - Orange L E D Illumination				
	10	Dot Matrix Led D & P Indicators In Car & Landings -Orange Colour				
	11	Automatic Rescue Device				
	12	Minor Builders Work				
	13	Scaffolding				
	14	Floor Annunciator With Music				
	15	Braille Buttons				
	16	Sill Support				
	17	Lift License				
	18	Overload Warning Indicator With Audio Announcement				
	19	Pit Ladder				
	20	Auto Light & Fan Switch Off (Pod)				
	21	Free Service For Five Years and maintenance for 02 years				
1		13 PASSENGER LIFT - (G+6)				
A		Supply Installation , Testing & Commissioning of 13 Passenger, 884 Kg,1.5 mps. Automatic Elevator, with VVVF and Microprocessor based Simplex Collective Selective with/without Provision of attendant control. Separate Landing Push Button Box for all Landings with scrolling indicator. with provision of Attendant control, having 7 stops , 7 Openings with SS Cabin (Hair Line Finish) having Cross flow fan for Ventillation , having sleek (SS hair Line finish-PVC) and LED small Circular lighting all complete.	SET	1	1707617.25	1707617.25
		Other Features				
	1	Battery Operated Emergency Light And Alarm Bell				
	2	Call Register Signal And Vt Door Operator				
	3	False Ceiling In Car				
	4	Vandal Proof S.S. Button With S.S. Cover				
	5	Firemans Switch				
	6	Infra Red Door Screen				
	7	Full Car Operating Panel				
	8	3 Way Intercom / Press And Speak Phone				
	9	Push Button - Orange L E D Illumination				
	10	Dot Matrix Led D & P Indicators In Car & Landings -Orange Colour				
	11	Automatic Rescue Device				
	12	Minor Builders Work				
	13	Scaffolding				
	14	Floor Annunciator With Music				
	15	Braille Buttons				
	16	Sill Support				
	17	Lift License				
	18	Overload Warning Indicator With Audio Announcement				
	19	Pit Ladder				
	20	Auto Light & Fan Switch Off (Pod)				
	21	Free Service For Five Years and maintenance for 02 years				
					TOTAL	3236609.81
			Say	Rs.	32.37	Lacs

AP- A/S/A
(अल-आसिफ अंसारी)
अवर अभियन्ता (जेम)
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निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रभारी
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निर्माण इकाई, कानपुर।

97

**NAME OF WORK:-NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTI-STOREY
AT BINDKI , DISTRICT FATEHPUR (U.P.)**

**FIRE STATION BUILDING
BILL OF QUANTITY D.G. SET**

Sr.No.	Description of Items	Unit	Qty.	RATE	AMOUNT
	DG SET AND ASSOCIATED WORKS				
1	Supplying, installing, testing and commissioning of Diesel Generator set (CPCB-IV) with Electronic governor for parallel operation and following specification. Power rating as per standard reference condition as per BS 5514/ISO 3046/ISO 8528 & IS 3046 Generator set specifications.				
	Engine: Diesel generating set are rated at 1500RPM and conform to ISO 8528 specifications. The engines are radiator cooled, four stroke and multi cylinder, conforming to ISO 3046. The scope of supply includes : Electrical starter motor 12V DC Battery charging alternator, Bosch fuel system with mechanical governor, A1 Class. Spin-on lube oil filter. Spin-on dual fuel filter with water separators, Turbocharger, Charge air cooler, silencer (Hospital grade), Dry type air cleaner, shutoff coil, flysheel and flywheel housing. First fill of lube oil and coolant. Safety form low lube oil pressure. Safety for high water temperature, permissible overload of 10 % for one hour in 12 hours of operation.				
	Capacity of Fuel Tank : Fuel tank suitable for 8 hours of operation				
	Alternator: Alternator is suitable for operation at 1500 RPM, 415 Volts, 0.8 pf (lag) suitable for 50 Hz, 3 phase, 4 wire systems, conforming to IS/IEC 60034-1. The alternator is brushless type, screen protected, revolving field, self excited, self regulated through an AVR. The alternator shall have ± 1.0 % voltage regulation (max) in static conditions - IP:23 protections with insulation class H.				
	Mounting arrangement: Engine and alternator are mounted on a common MS fabricated base frame with AVM pads.				
	Supply, Erection, testing and commissioning of AMF panel suitable forKVA DG set. The panel is of cubical type base /floor mounting control panel with hinged doors, undrilled bottom gland plate, aluminium Bus Bar with the accommodation foramps 4 pole contactor for alternator with thermal O/L relay.....Amps 4 pole contactor for mains, HRC fuse for short circuit protection, Microprocessor based AMF module with supply failure timer, Restoration timer, 3 impulse automatic engine start/stop logic. Mains/generator voltage capacity bypass switch and frequency sensing, PCC 1301 controller with water temperature/Lube oil pressure /engine speed, Voltage/ampere/Frequency/KVA. Running -hour count. No. of starts, Fault indication, over /under speed. Fails to start, low oil pressure, High engine temperature, under/over voltage, over current, Earth fault relay, with indications for Mains on, Load on Mains, Battery charger on push button AMF module by pass Mode, Battery charger unit with inbuilt Auto/Manual and Flat /Boost facility. The complete set shall have sufficient safety and				

AP-AP-A

(अध्यक्ष-आवास निगम)
अवर अभियन्ता (निर्माण)
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Qmsh

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

✓

इकाई प्रभारी
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

98

<p>Genset Controller : Microprocessor based generator set monitoring and control system. The control provides a simple operator interface to the generator set, manual and remote start/stop control, shutdown fault indication, and an LCD hour counter. The integration of all functions into a single control system provides enhanced reliability and performance compared to conventional generator set control systems. This control has been designed and tested to meet harsh environment in which gensets are typically applied. Features, Functions, protections 16 character x2 line alphanumeric LCD display with LED backlight. Operator interface, provide a record most recent fault conditions. Fault history stored in the control non volatile memory, provide alternator data. Voltage (1ph or 3 ph line to line and line to neutral voltage, current (1ph or 3 ph), kVA (3 ph and total), Frequency, Provide Engine Data, starting battery voltage, Engine running hours, Engine Temp, Engine oil pressure, control includes provision for service adjustment and calibration of DG control functions, voltage</p>				
<p>Engine Starting : The control system supports automatic engine starting, primary and back up start disconnects are achieved by battery charging alternator feedback or main alternator output frequency. Controller provide configurable time delay of 0-300 secs to start after remote start signal and time delay of 0-600 secs prior to shut down after stop signal. Sleep mode increase battery life. Configurable current settings from low to minimize current draw when genset is not working. Engine Protective functions include, configurable alarm output, emergency stop: Annunciated whenever an emergency stop signal is received by the control. Low lube oil pressure warning and shutdown, high engine water temp warning and shutdown, low coolant temp warning, sensor failure indication, low and high battery voltage warning, weak battery warning, fail to start shut down, cranking lockout; control will not allow the starter to engage or to crank the running engine. Cyclic cranking: configurable for the number of starting cycle (1 to 7) and duration of crank and rest periods. Alternator Protective functions includes, -High and Low AC</p>				
<p>Acoustic enclosure: The acoustic enclosure shall be made of 1.6 mm thick CRCA sheets in suitable approved shade and a structural / sheet metal base frame painted in black. The walls of the enclosure are insulated with fire retardant foam so as to comply with the 75dBA at 1 mtr sound levels specified by Ministry of Environment and Forest. The enclosure has the following features: Specially designed to meet stringent MOEF / CPCB norms of 75dBA @ 1 mtr at 75% load under free field conditions. Two point lifting for easy handling at customer site, designed to have optimum serviceability, air inlet louvers specially designed to operate at rated load made on special purpose CNC machines for consistency in quality and workmanship, Powder coated for long lasting service life and superior finish with UV resistant powder coating can withstand extreme environment. Use of special hardware for longer life, insulation material meets exacting IS 8183 specifications for better sound attenuation, Flush styling - no projections, Fluid drains for lube oil and fuel, Fuel filling point inside the enclosure.</p>				
<p>63KVA DG SETS (CPCB-IV) with Electronic governer suitable for parallel operation</p>	KVA	63	8669.14	546155.55
<p>Grand Total</p>	Say	Rs.	5.46	546155.55
			Laacs	

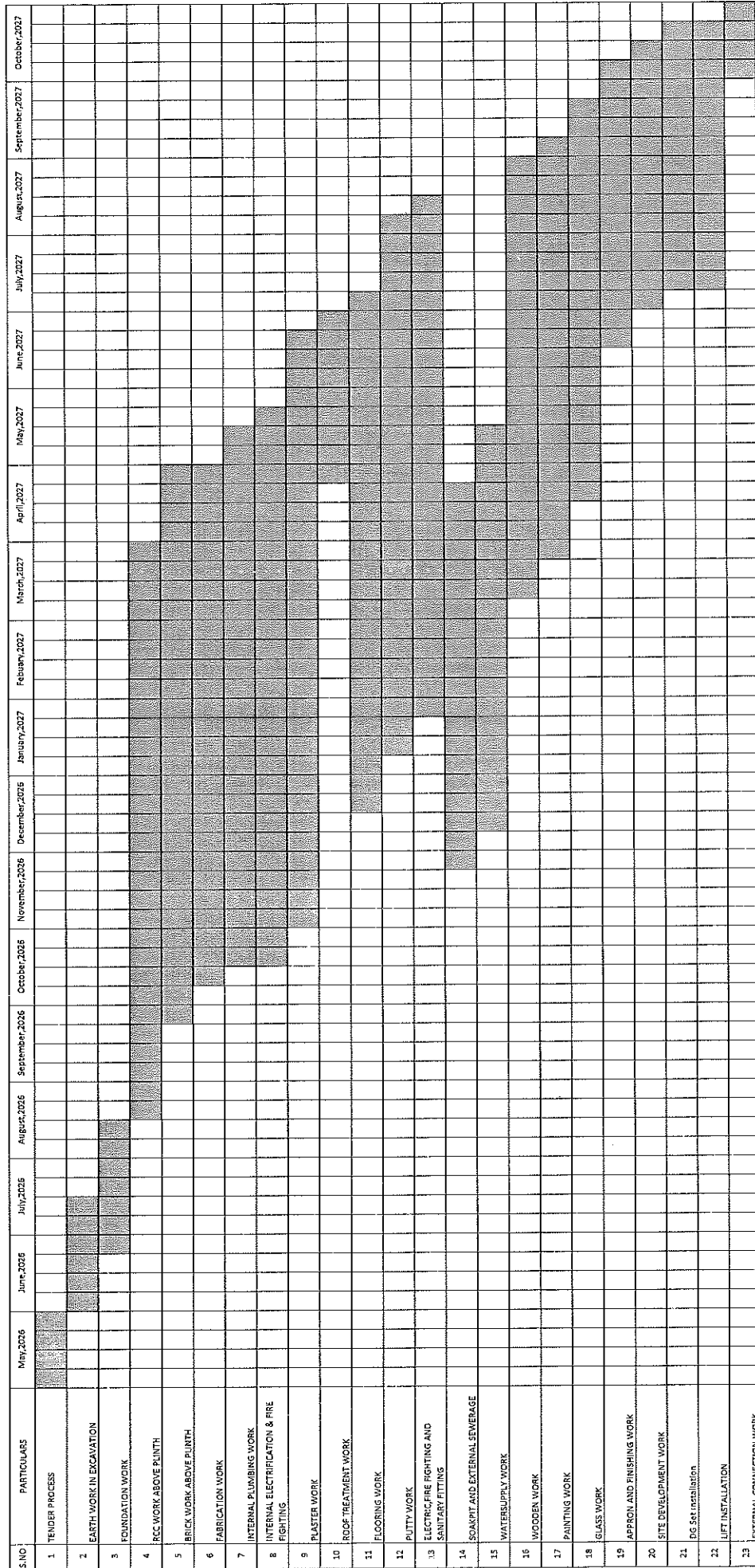
Al-Arif A
(विले आरिफ अली)
अवर अभियन्ता (जेम्स)
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

Shukla
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रम. (1)
उ० प्र० पुलिस आवास निगम लि०,
निर्माण इकाई, कानपुर।

BAR CHART

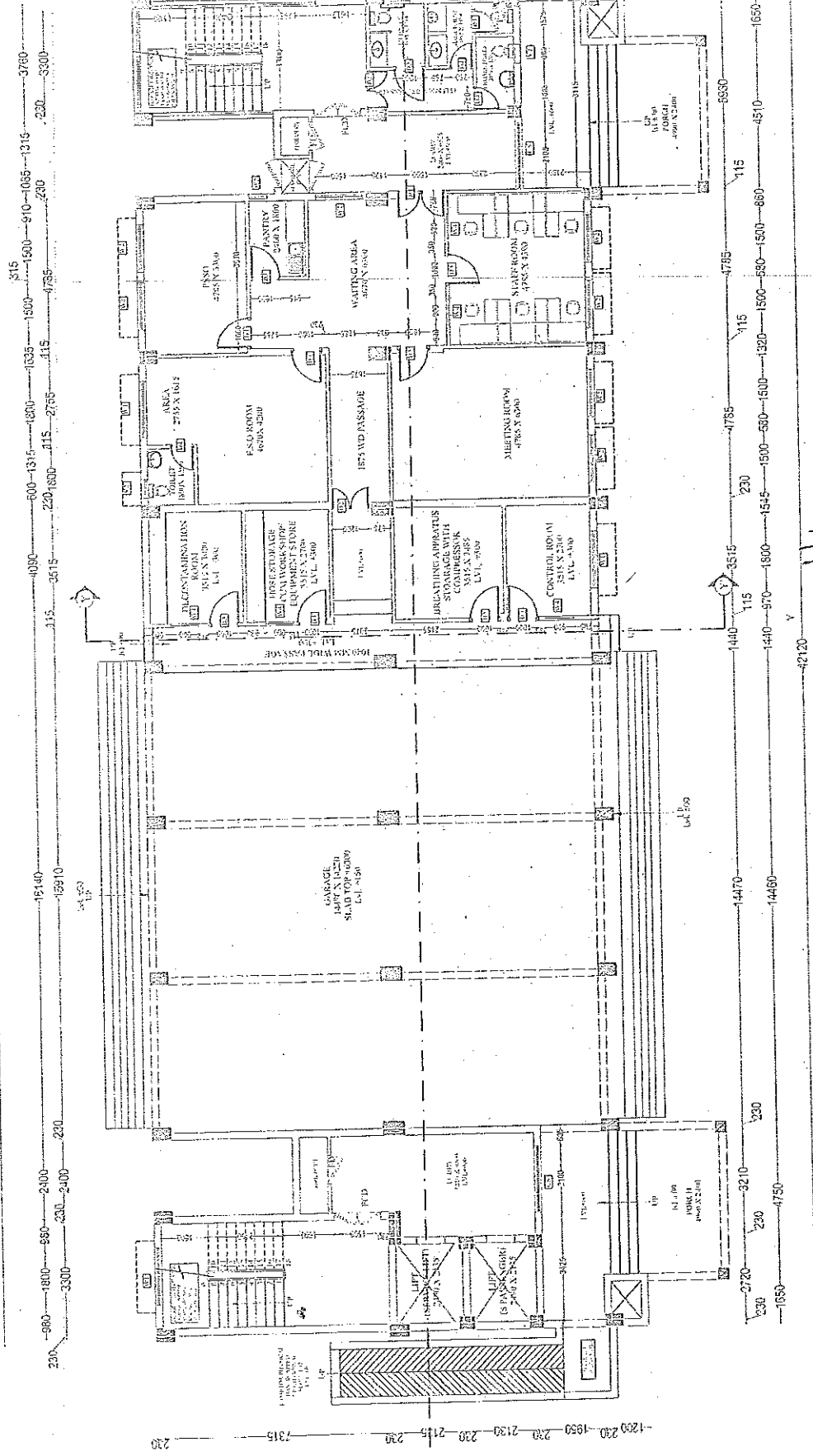
NAME OF WORK:- PROPOSED CONSTRUCTION WORK OF NON-RESIDENTIAL BUILDINGS FOR FIRE STATION (2 UNITS) & RESIDENTIAL MULTISTOREY AT BINOLI, DISTRICT FATEHPUR (U.P), GO NO:-227/2025/1/128320/2025/001-CN-1853976-6-7099-911-2024 DT-30.03.2026



अरुण आभियन्ता (जेम)
अरुण आभियन्ता निगम लि०
उ०प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर

इकाई प्रगती
उ० प्र० पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर।

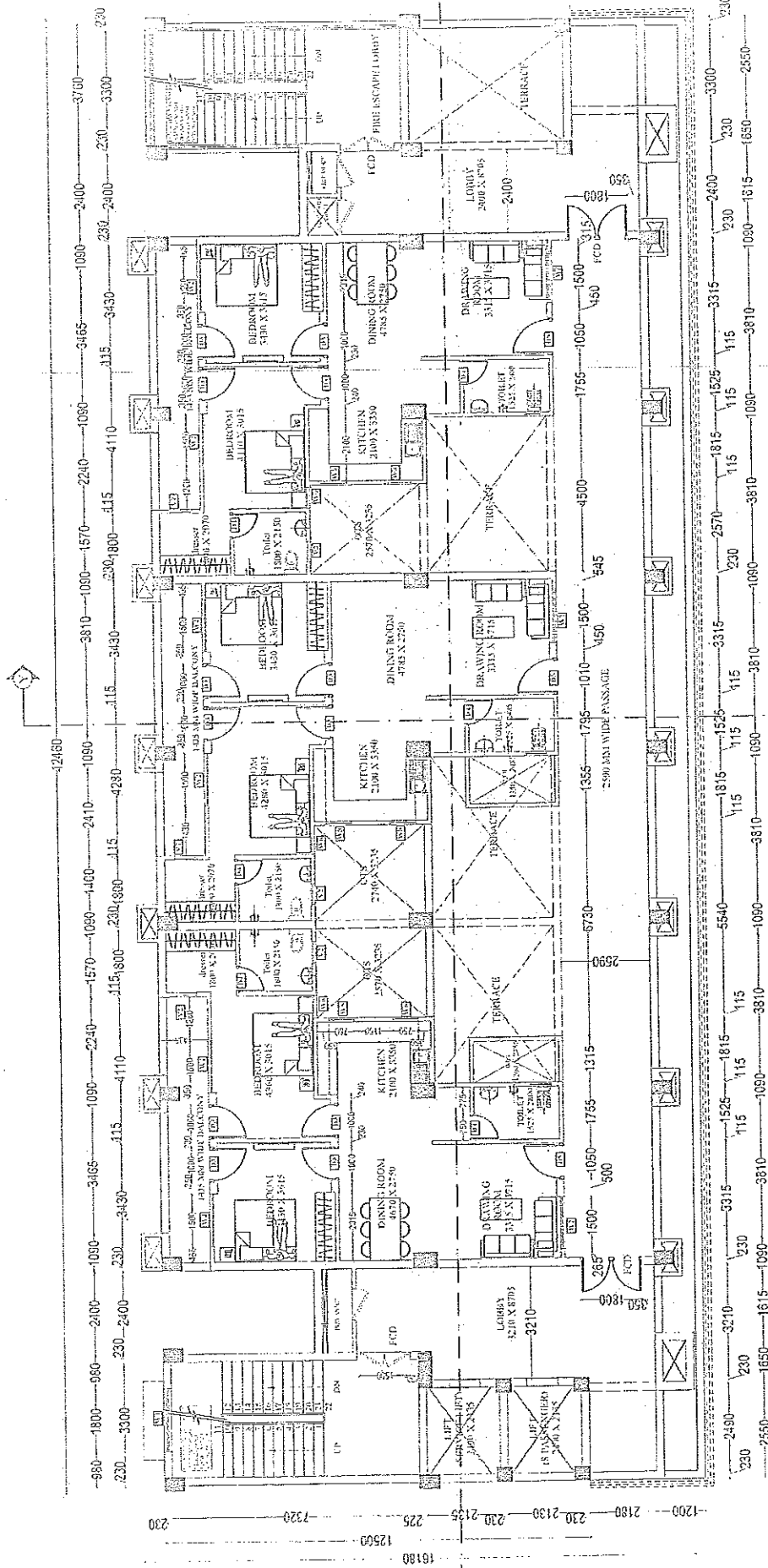


सहायक अभियन्ता
अन्तर प्रदेश मुक्ति आवास निगम लि.
निर्माण इकाई-कानपुर ।



द्वितीय प्रभारी
द्वितीय आवास निगम लि०.
पुलिस आवास निगम लि०.
पुलिस आवास निगम लि०.

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE: GROUND FLOOR PLAN	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:
				ASTT. ENGINEER:	J. ENGINEER	DATE: 23-Apr-26
PROPOSED FIRE STATION (2 UNITS) AT BINKI DISTT: KATEHPUR			NORTH:	DRG. NO.: AR-01-01		



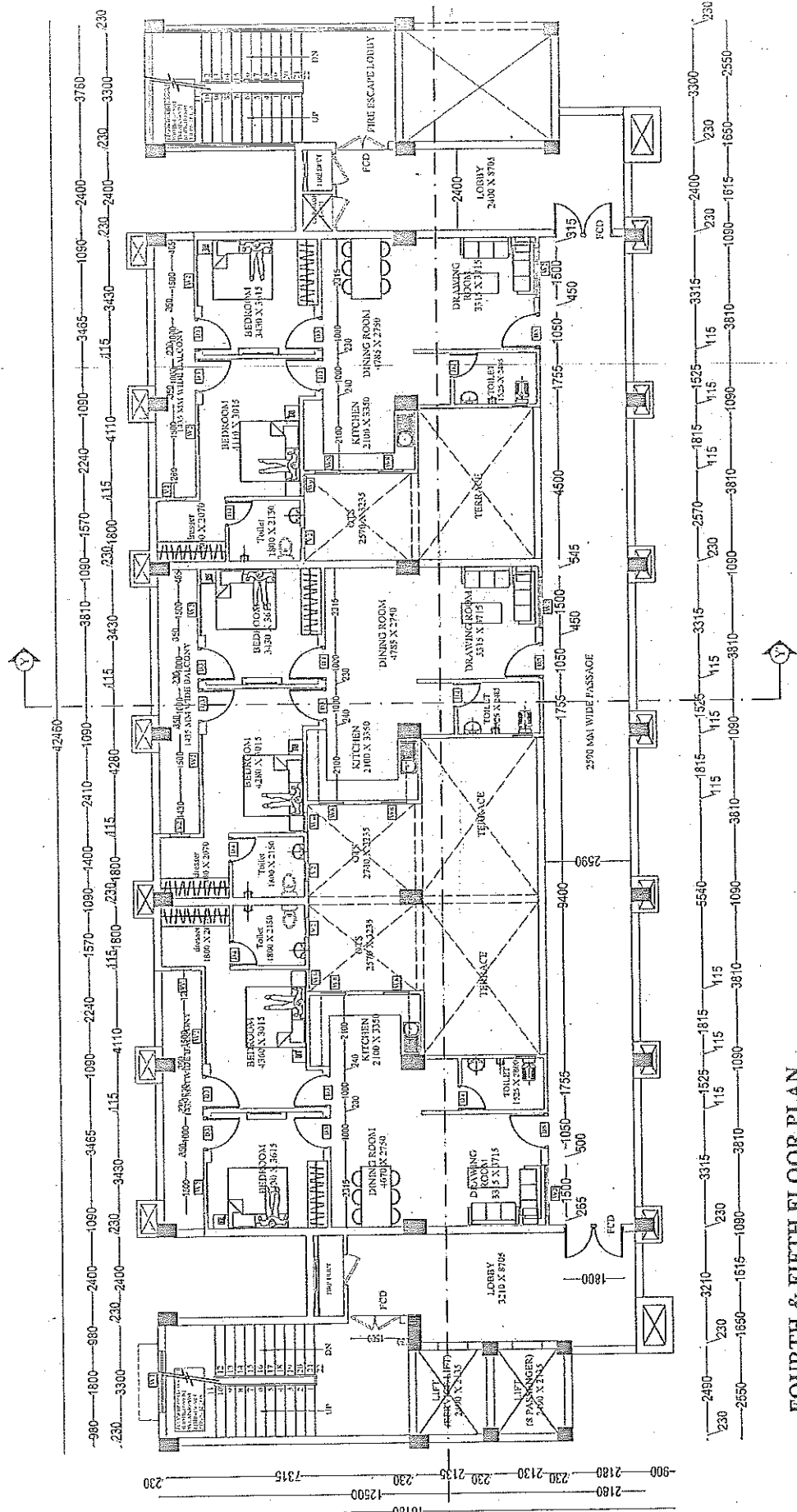
THIRD FLOOR PLAN
AREA - 547.86 SQ.MT.
TYPE B (UNIT AREA- 90.00 SQ.MT.)

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवेस निगम लि.
निगम इकाई-कानपुर ।



इकाई प्रभारी
बि. प्र. पुलिस आवेस निगम लि.
निगम इकाई-कानपुर ।

PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI DIST:FATEHPUR	AGENCY: U.P.P.A.N	CLIENT: 	DRG. TITLE: THIRD FLOOR PLAN		S.ENGINEER: 	EXE. ENGINEER: 	ARCHITECT: 			
			NORTH:	DRG. NO.: AR-01-04				ASST. ENGINEER: 	J. ENGINEER: 	DATE: 23-Apr-26



FOURTH & FIFTH FLOOR PLAN
AREA -506.42 SQ.MT.
TYPE B (UNIT AREA- 90.00 SQ.MT.)

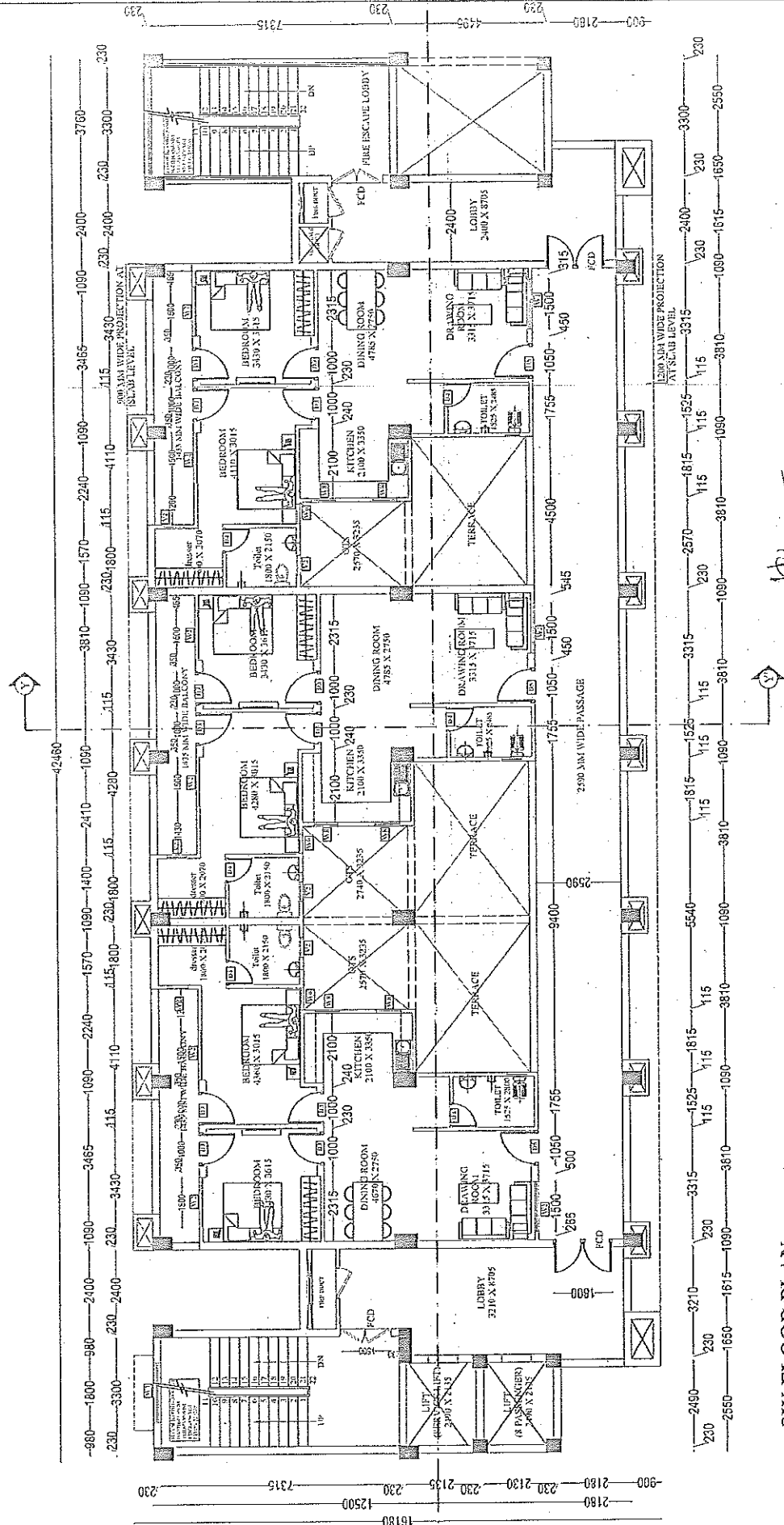
उत्तर प्रदेश पुलिस आवेस निगम लि.
 निगम इकाई-कानपुर ।



इकाई प्रभारी
 एच एच पुलिस आवेस निगम लि.
 निगम इकाई, कानपुर ।

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI .DIST:FATEHPUR	AGENCY:	U.P.P.A.N	CLIENT:	DRG. TITLE: FOURTH & FIFTH FLOOR PLAN	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTS architects,engineers & interior designers ADDRESS-20/2A, VISHWAS ROAD, GATEWAY, LUCKNOW PIN-201001/141454, 700812/006
						NORTH:	DRG. NO.:	DATE:	
							AR-01-05	23-Apr-26	

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SIX FLOOR PLAN
AREA - 560.21 SQ.MT.
TYPE B (UNIT AREA - 90.00 SQ.MT.)

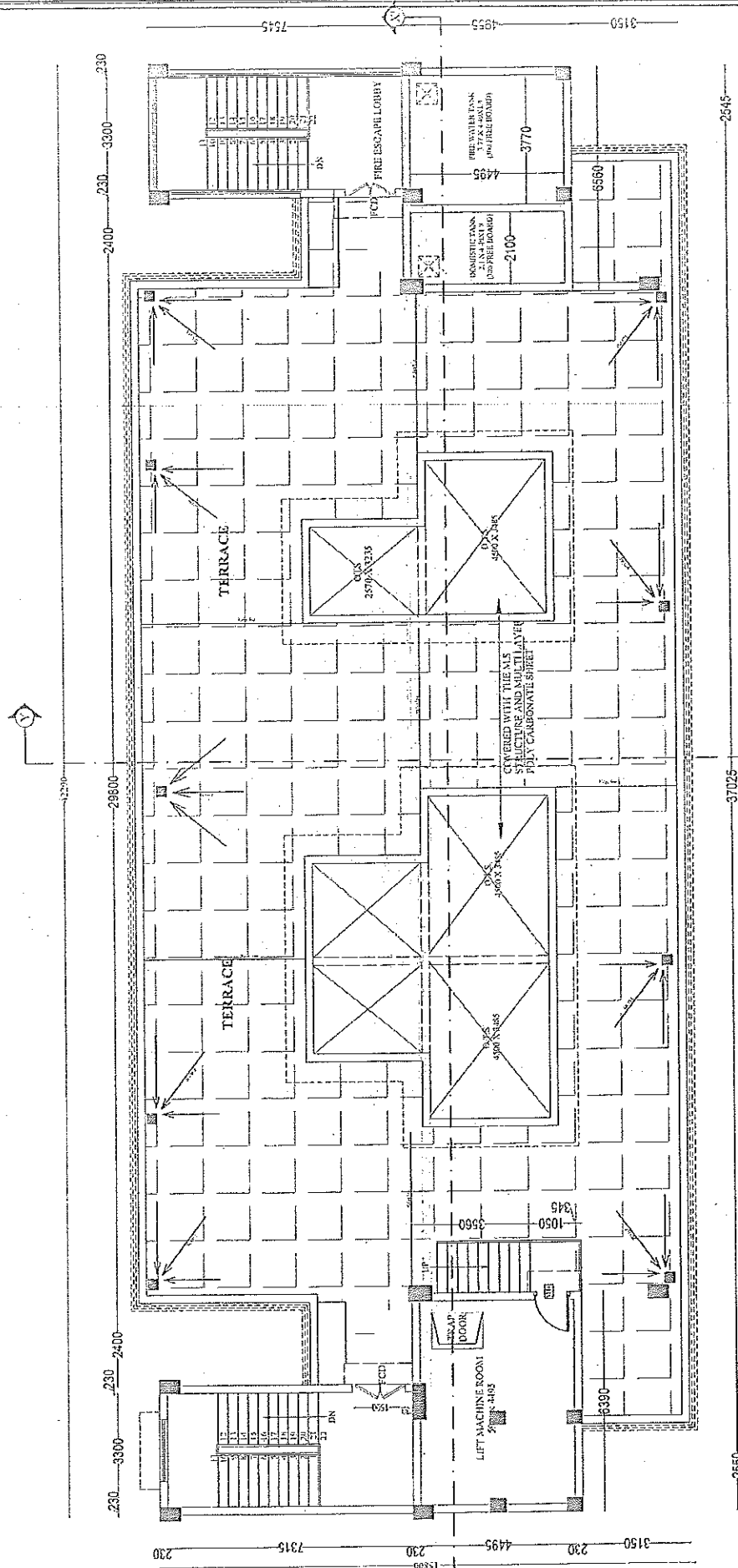
सहायक (अभियंता)
 उत्तर प्रदेश पुलिस आवास निगम लि०
 निर्माण इकाई-कानपुर ।



इकाई प्रभारी
 स० प्र० पुलिस आवास निगम लि०
 कानपुर

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT: FATEHPUR		AGENCY:		CLIENT:		DRG. TITLE: Sixth FLOOR PLAN		S. ENGINEER:		EXE. ENGINEER:		ARCHITECT:		ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURE architects, engineers & interior designers	
			U.P.P.A.N				NORTH:		DRG. NO.: AR-01-06		ENGINEER:		DATE: 23-Apr-26			

ADDRESS: 2181, VISHWAS KHAND, COUTHAGAR
 LUCKNOW Ph. - 91-588714 1454, 759612300



MUMTY/MACHINE ROOM PLAN

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

इकाई प्रगती
छ ५० पुलिस आवास निगम लि०,
निर्माण इकाई कानपुर।

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT:
			TERRACE FLOOR PLAN					
PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT:FATEHPUR	U.P.P.A.N		NORTH:	DRG. NO.:	ASST. ENGINEER:	J. ENGINEER	DATE:	ADDRESS-207A, VISHWAS KHAND, COHSEVAKAR, LUCKNOW PH.-91-6061741454, 7906433003
				AR-01-07			23-Apr-26	



759

FRONT ELEVATION

50 मी. गुरुस आवास निगम लिमिटेड

ARCHITECT CONSULTANTS

A&D CONSTRUCTION ARCHITECTURE

architects engineers & interior designers

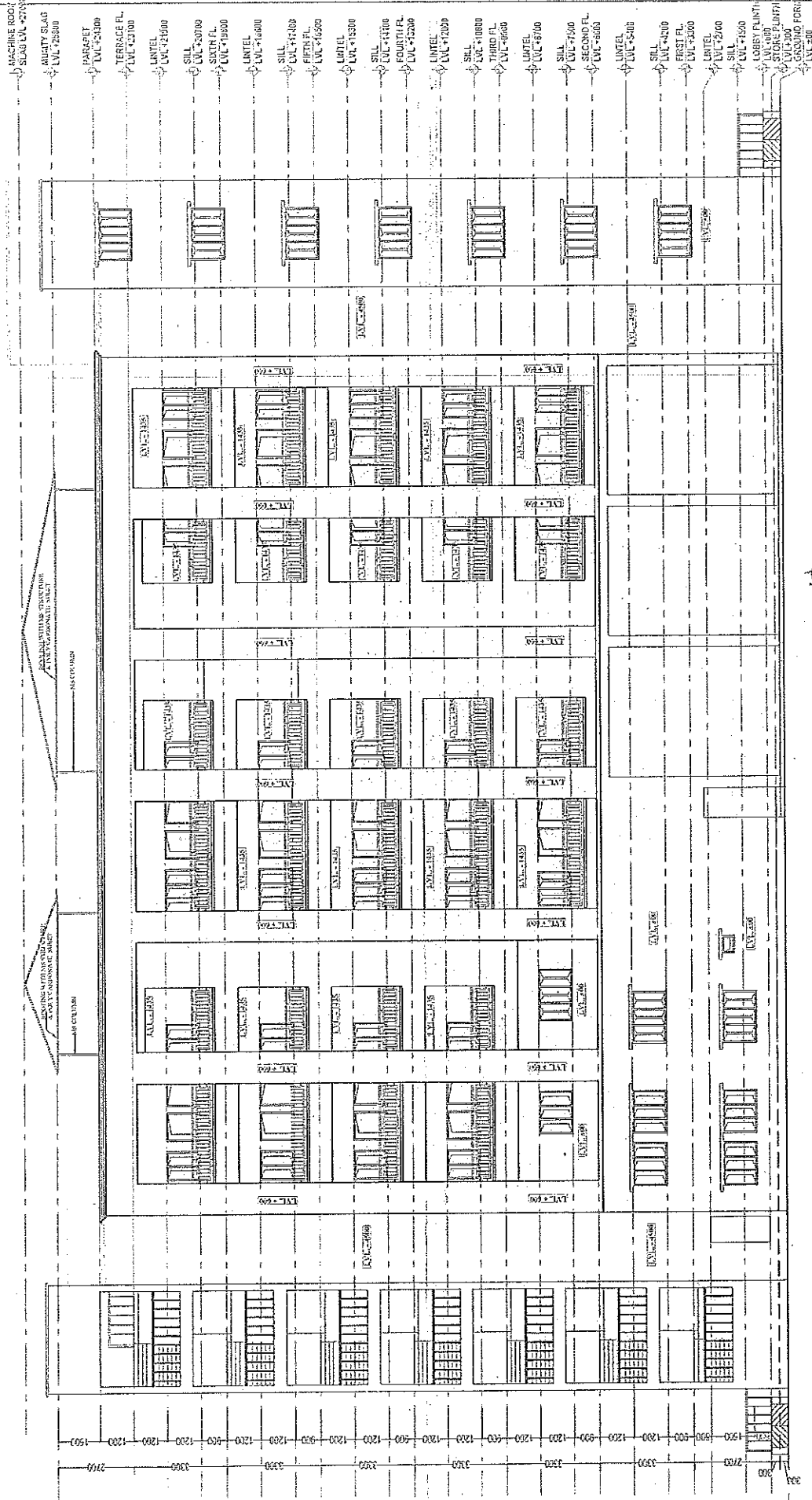
ADDRESS: 21/4, VISHWAS NAGAR, GURULUJAN
UDHOKH P.O. PIN-141001



सहायक अभियंता
उत्तर प्रदेश पुलिस आवास निगम लिमिटेड
निर्माण इकाई-कानपुर 1

DRG. TITLE:	ARCHITECT:
FRONT ELEVATION	
S. ENGINEER:	EXE. ENGINEER:
ASST. ENGINEER:	J. ENGINEER:
DRG. NO.:	DATE:
AR-01-08	23-Apr-26

PROJECT:	AGENCY:	CLIENT:
PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT: FATEHPUR	U.P.P.A.N	



REAR SIDE ELEVATION



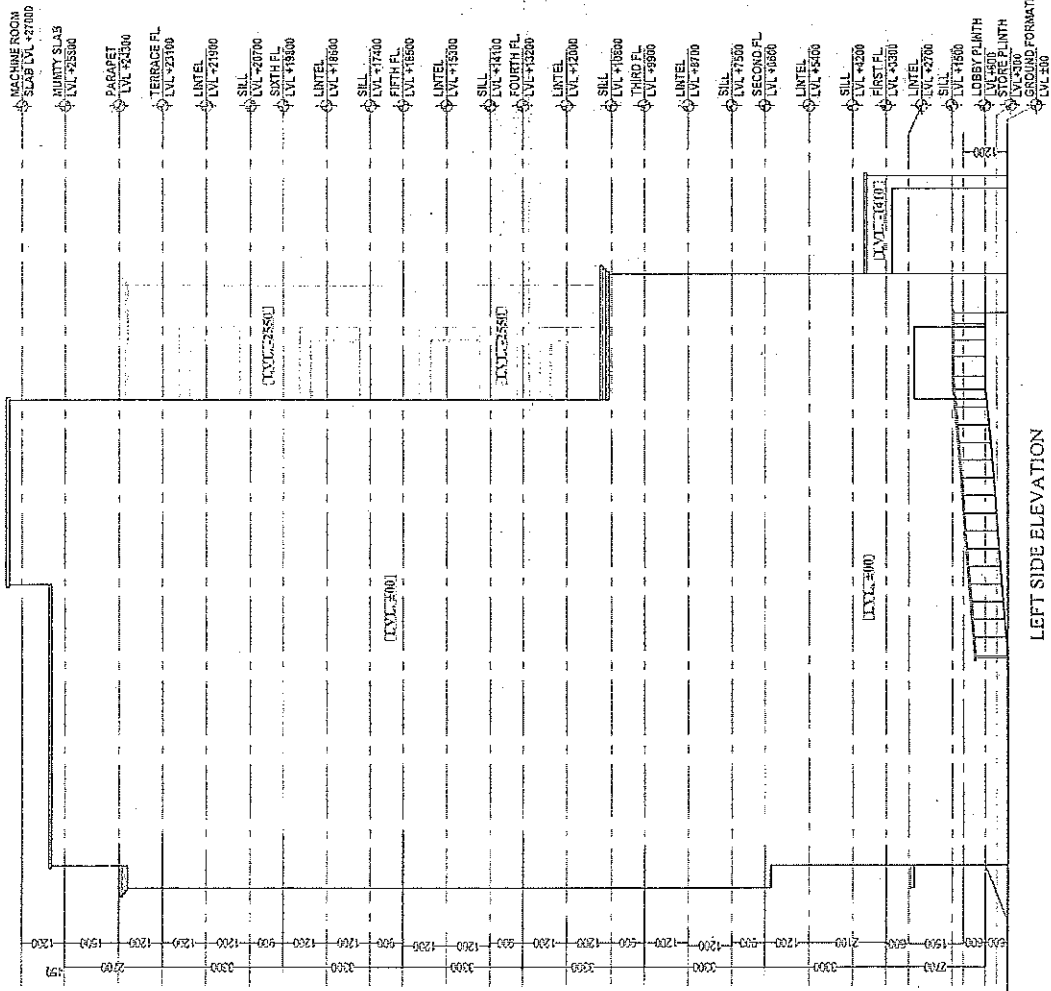
सहायक अभियंता
उत्तर प्रदेश पुलिस आवस निगम लि
निर्माण इकाई-कानपुर

इसकाई प्रयोग
30 प्रति आवस निगम लि

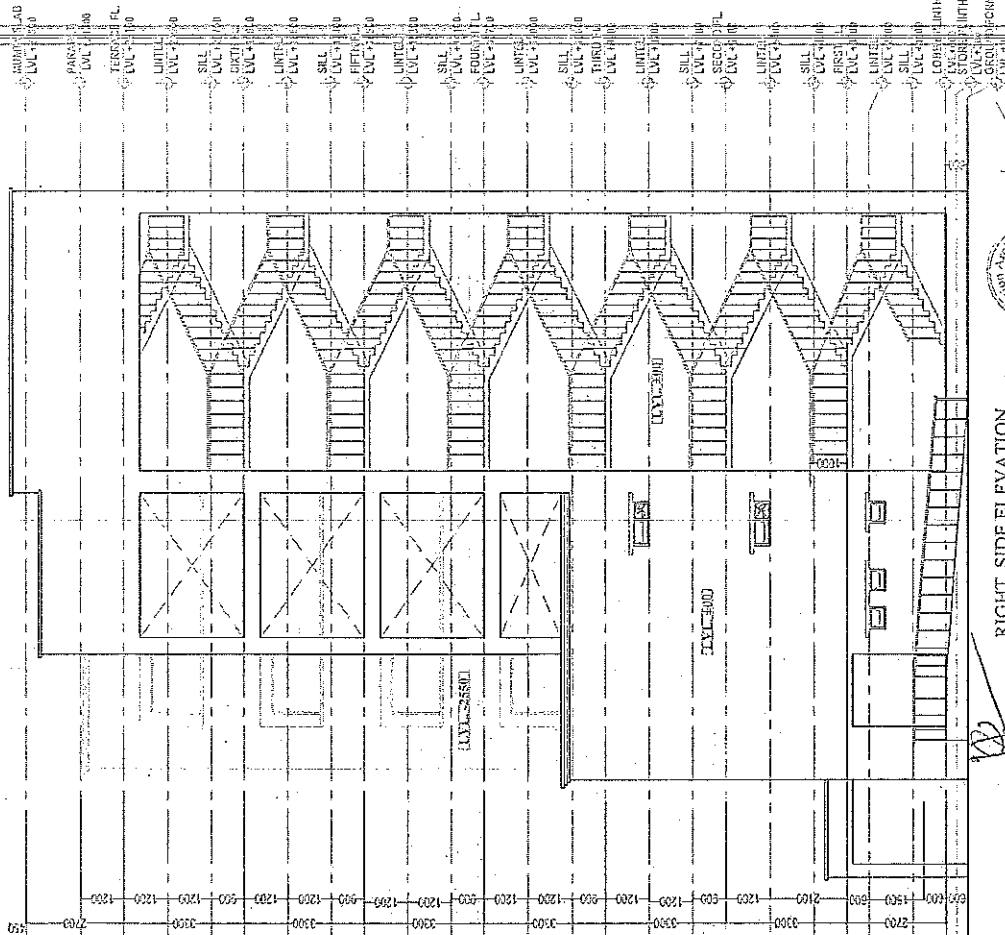
ARCHITECT CONSULTANT
A&D CONSTRUCTION ARCHITECTURE
architects, engineers & interior designers
ADDRESS-2023, VERMA'S HAND, COHTINGAR,
LUCKNOW PH-93 146674 1551, 700422006

PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT:FATEHPUR	AGENCY: U.P.P.A.N	CLIENT:	DRG. TITLE:		S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:
			REAR SIDE ELEVATION				
			NORTH:	DRG. NO.:	ASTT.ENGINEER:	J.ENGINEER	DATE:
				AR-01-09			23-Apr-26

U.P.P.A.N



LEFT SIDE ELEVATION



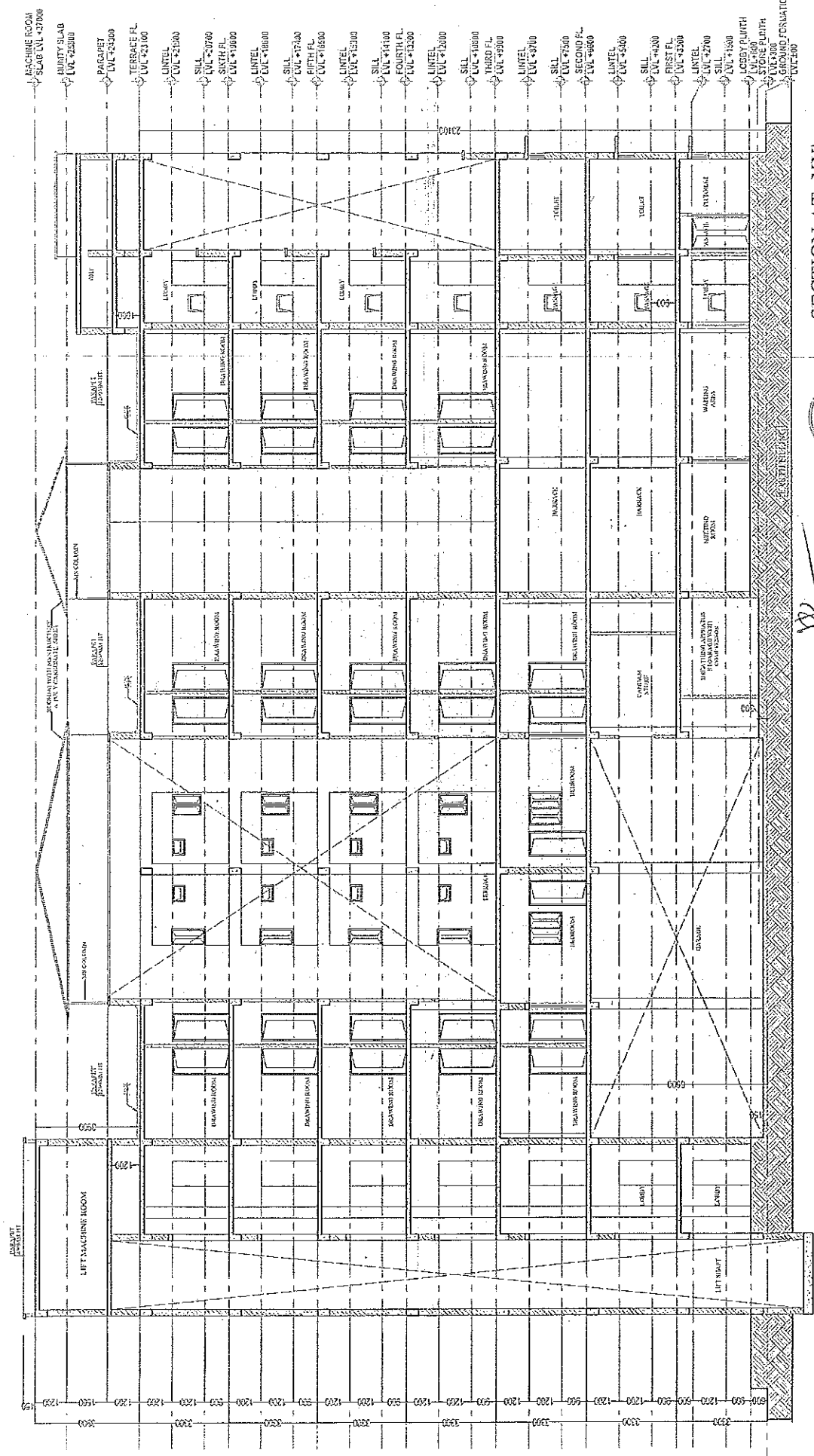
RIGHT SIDE ELEVATION

सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवान निगम लि
निर्माण इकाई-कानपुर 1

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECTED BY DR. SURESH KUMAR SINGH AGRI-90831000000000000000 architects, engineers & interior designers
			LEFT SIDE & RIGHT SIDE ELEVATION					
			NORTH:	DRG. NO.: AR-01-10				
PROPOSED FIRE STATION (2 UNITS) AT BINDKI .DISTT:FATEHPUR	U.P.P.A.N				ASTT. ENGINEER:	J. ENGINEER	DATE:	23-Apr-26



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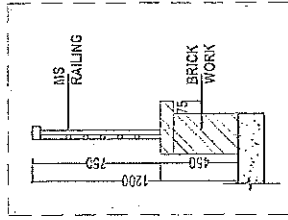
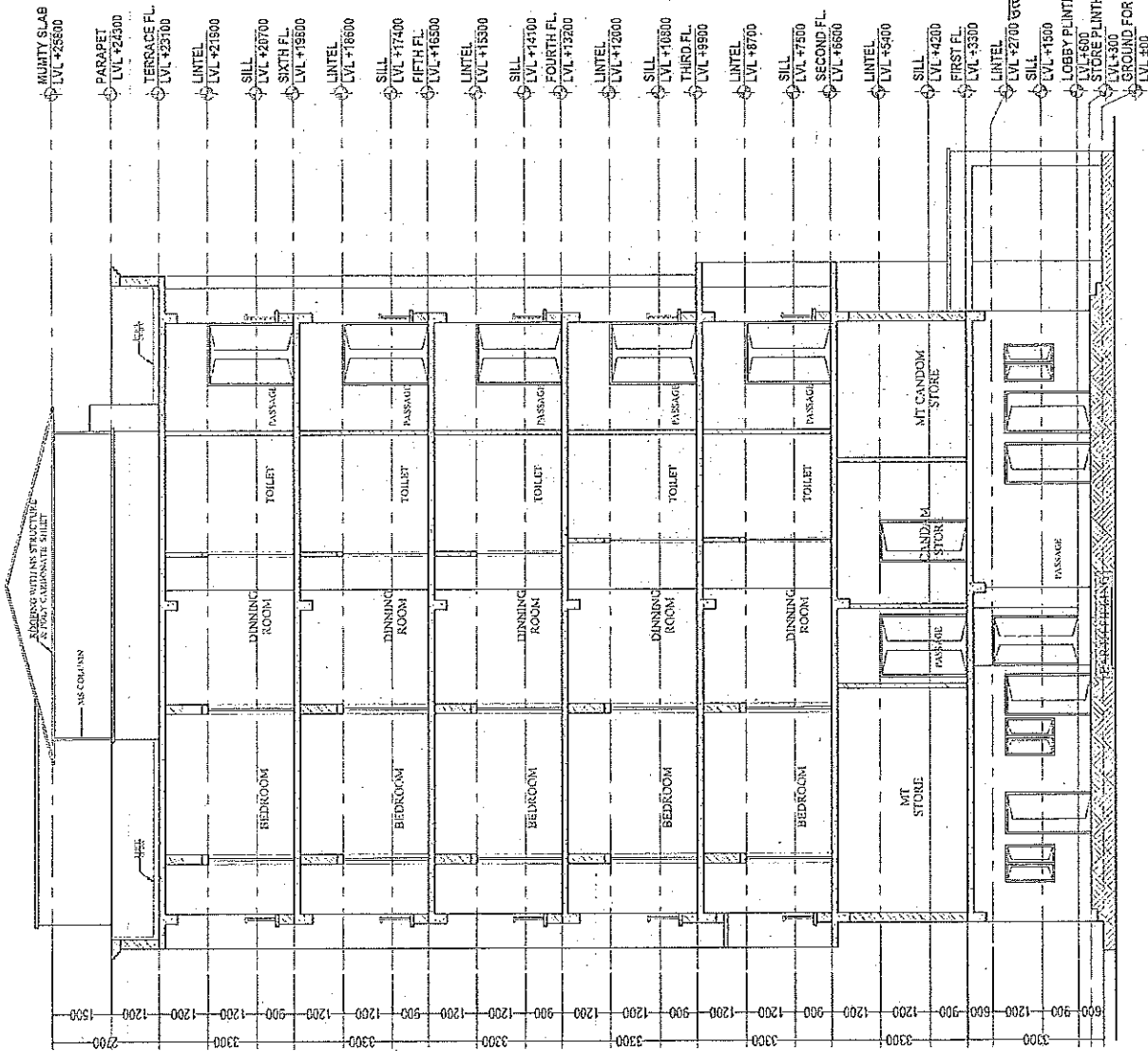
SECTION AT -XX



सहकार्य अभियंता
उत्तर प्रदेश पुलिस आवास निगम लि
निर्माण इकाई-कानपुर ।

ARCHITECT: A&D CONSTRUCTION ARCHITECTURAL
ADDRESS: 2/2A, VISHWAS KHAND, COHTHARUA,
LUCKNOW Ph: +91-522-1741454, 7906023002

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:		S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:
			SECTION-XX'				
			NORTH:	DRG. NO.: AR-01-11			
PROPOSED FIRE STATION (2 UNITS) AT BINDKI .DISTT:FAATEHPUR			U.P.P.A.N				



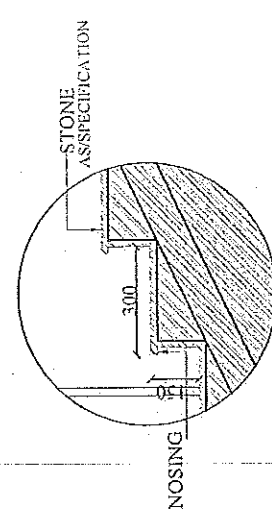
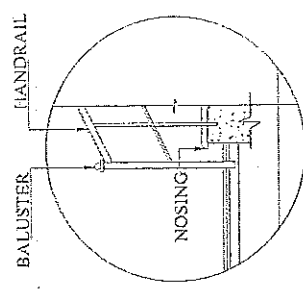
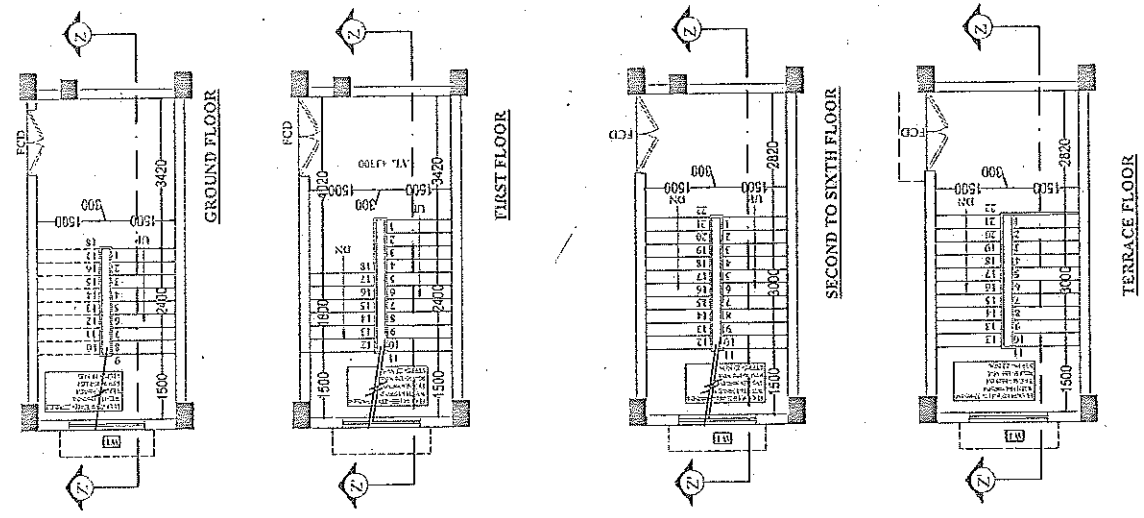
PARAPET DETAIL

सहायक अभियंता
प्रदेश पुलिस आवस निगम लि.
निर्माण इकाई-कागपुर ।



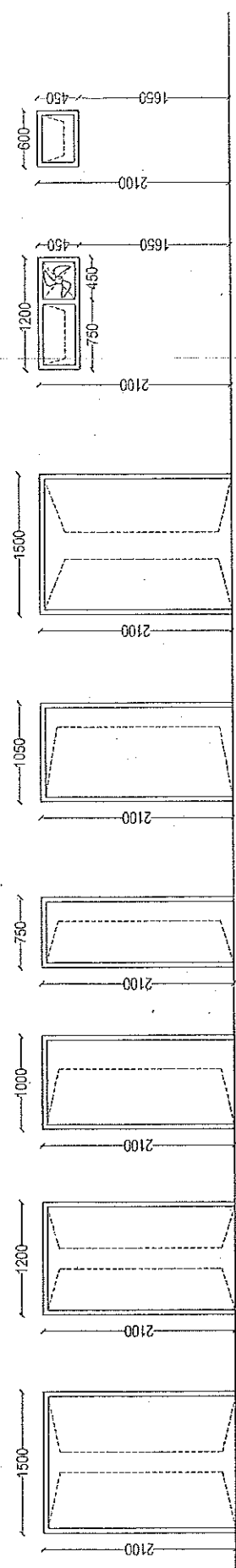
SECTION-YY

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:
			SECTION-YY				
			NORTH:	DRG. NO:	ASTT. ENGINEER:	J. ENGINEER:	DATE:
PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT: FATEHPUR	U.P.P.A.N		AR-01-12				23-Apr-26
ARCHITECT CONSULTANT:		A&D CONSTRUCTION ARCHITECTS					
		architects, engineers & interior designers					
		ADDRESS: 2/12, VISHWANATH, COATUNGAR, LUCKNOW FL-20130171156, 70042003					

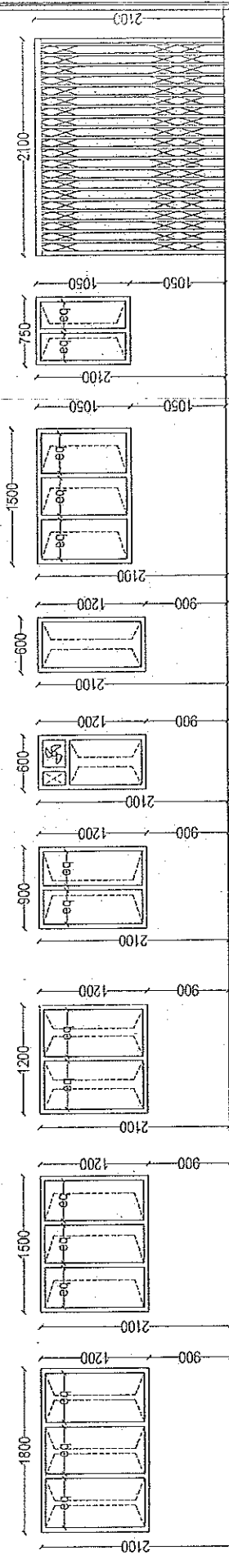


SECTION-ZZ'

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:	SECTION-ZZ'	S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURE architects and interior designers
PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT-FATEHPUR	U.P.P.A.N		NORTH:	DRG. NO.: AR-01-13	ASTT.ENGINEER:	J.ENGINEER	DATE:	ADDRESS-2/24, VISHWAS KHAND, COMHAGAR, LUCKNOW PH.-814081741454, 7006433009
							23-Apr-26	



D1-1500X2100 D2-1200X2100 D3-1000X2100 D4-750X2100 D5-1050X2100 FCD-1500X2100 V1-1200X450 V2-600X450



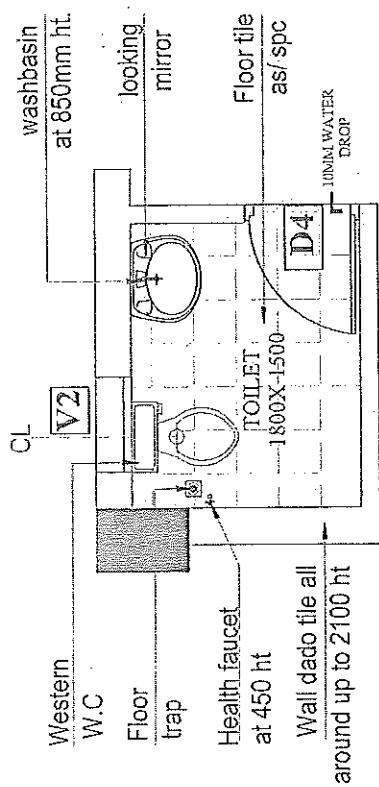
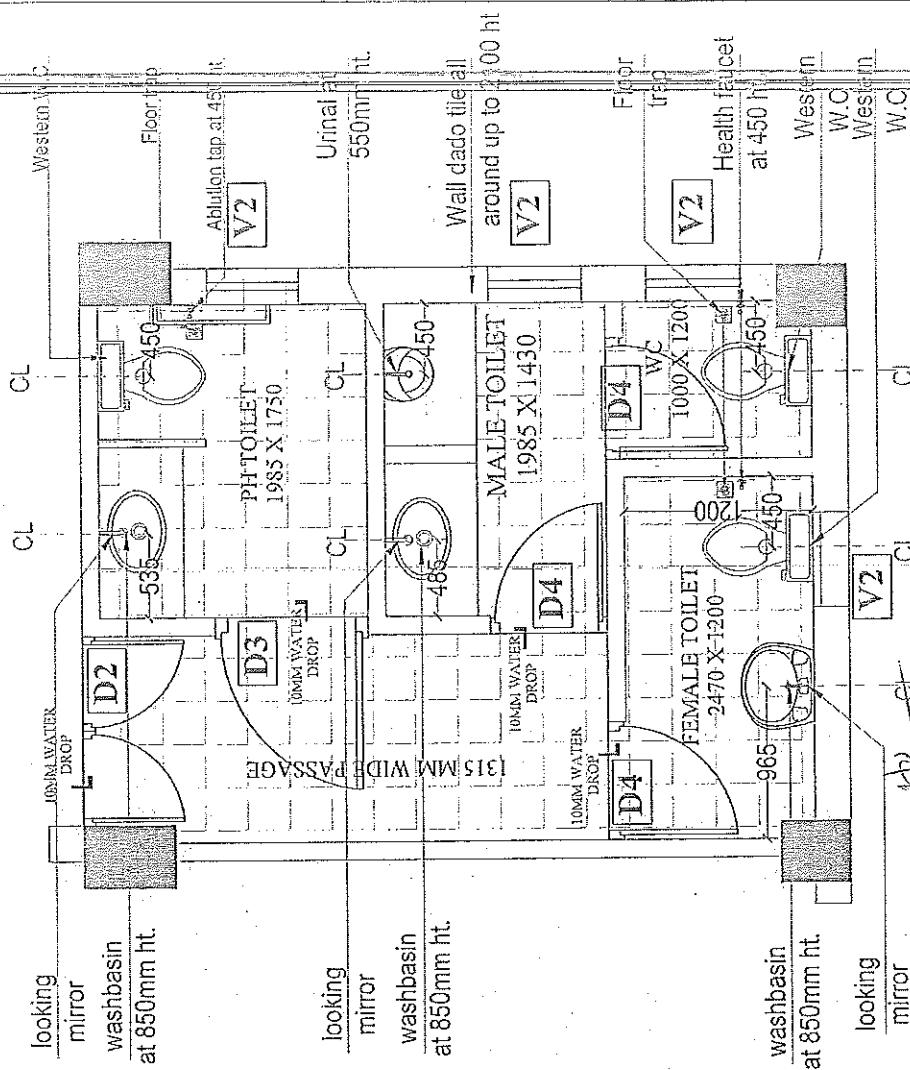
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सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवस निगम लि०
निर्माण इकाई-कानपुर /



इकाई प्रगति
50 मी पुलिस आवस निगम लि०,
निर्माण इकाई, कानपुर।

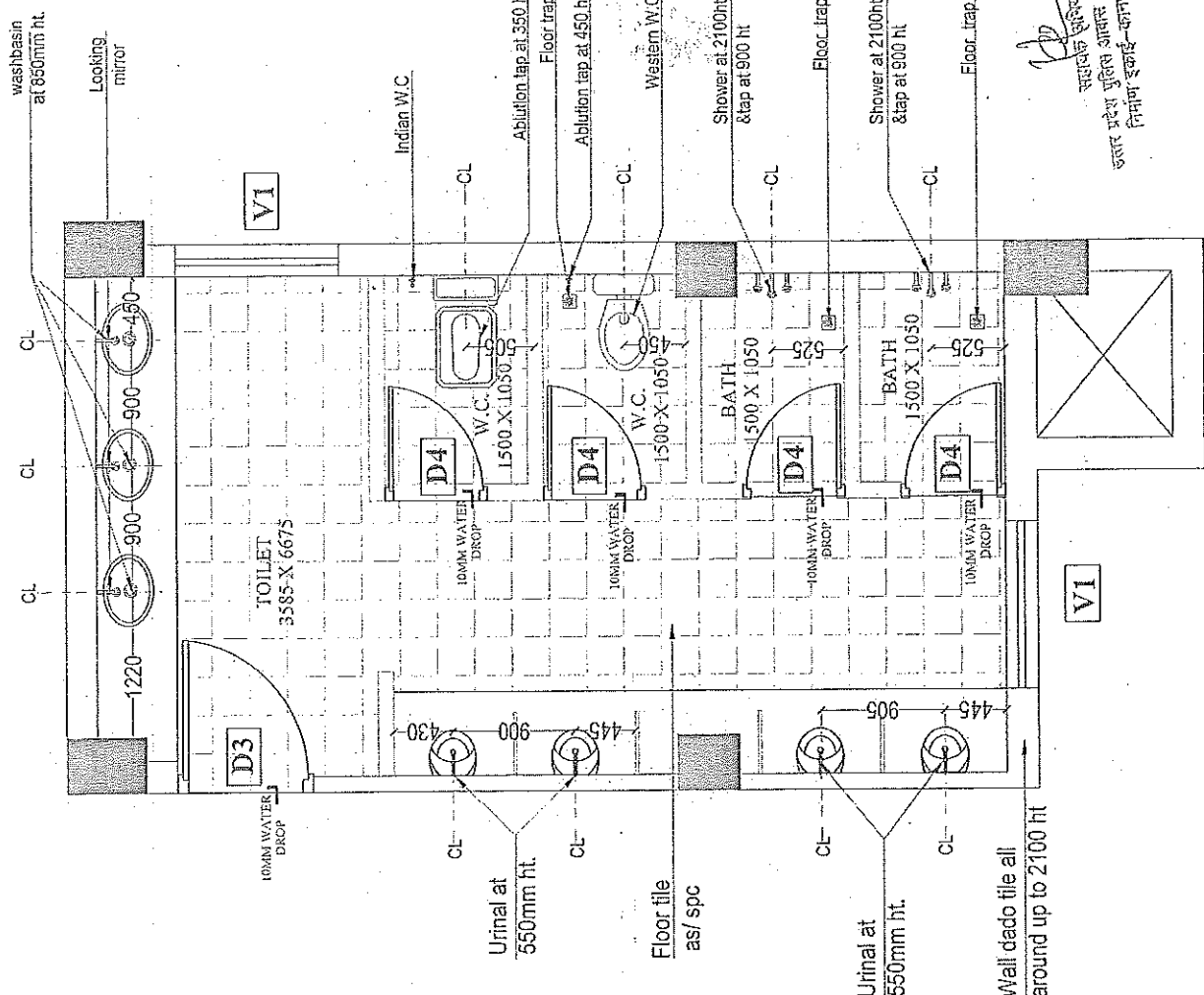
PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT:FATEHPUR	AGENCY: U.P.P.A.N	CLIENT:	DRG. TITLE: (DOOR WINDOW DETAIL)		S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT - A&D CONSTRUCTION ARCHITECTURE architects,engineers & interior designers ADDRESS:21/8A, VISHWAS KHAND, CHHITKARGAR, LUCKNOW Ph.-91-8037741454, 7706423808
					ASTT.ENGINEER:	J.ENGINEER	DATE:	
			NORTH:	DRG.NO.: AR-01-14			23-Apr-26	



सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

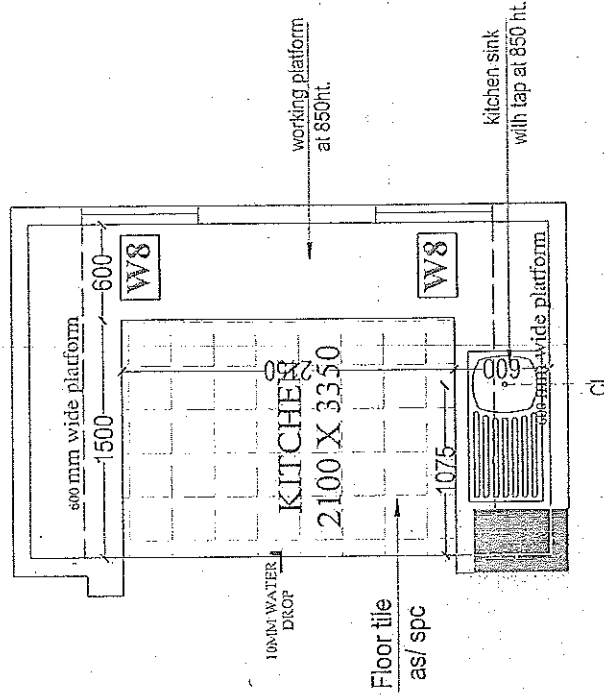
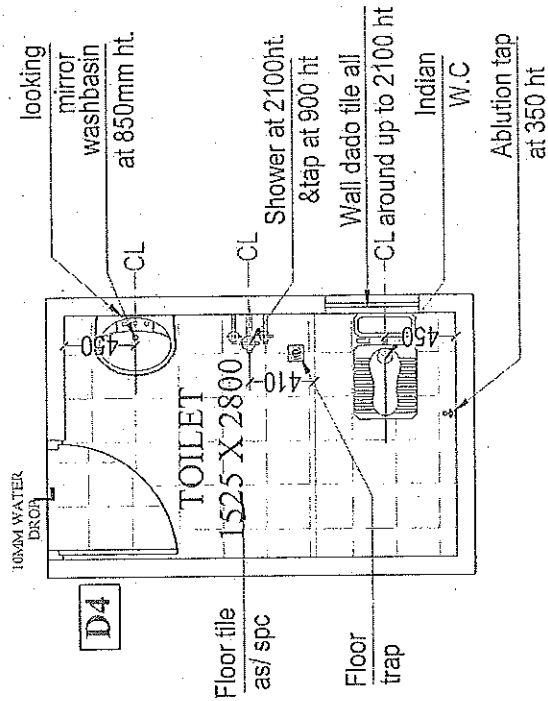
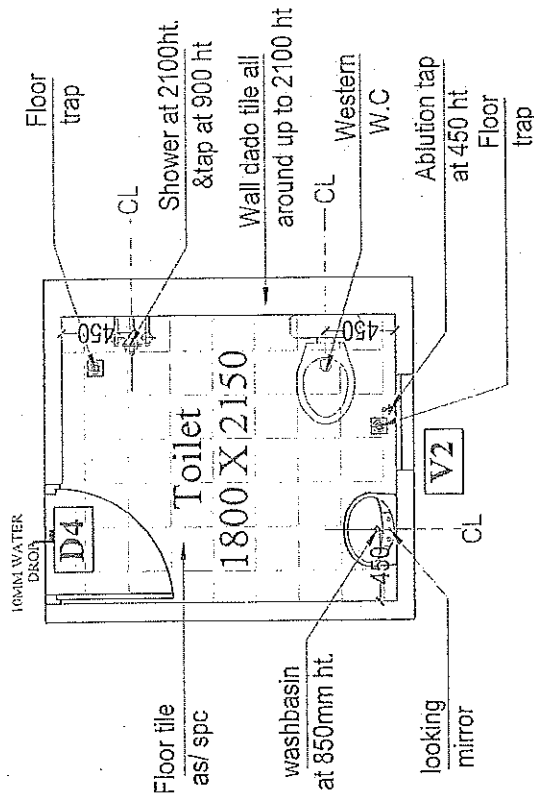
PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:
			GROUND FLOOR TOILET DETAIL		-	-	-
PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT: FAIZABAD	U.P.P.A.N		NORTH:	DRG. NO.:	ASST. ENGINEER:	J. ENGINEER:	DATE:
				AR-01-15			23-Apr-26

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सहायक इंजीनियर
उत्तर प्रदेश पुलिस आवेस निगम लि.
निगम इकाई-कानपुर 8

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI .DISTT:FATEHPUR	AGENCY:	CLIENT:	DRG. TITLE:		S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT:- A&D CONSTRUCTION ARCHITECTURE architects engineers & interior designers ADDRESS: 27/52, VISHWAS KHURD, GOVT. COLLEGE, LUCKNOW Ph.-91-803741454, 750643003
				FIRST FLOOR TOILET DETAIL					
				NORTH:		DRG. NO.: AR-01-16		ASTT.ENGINEER:	

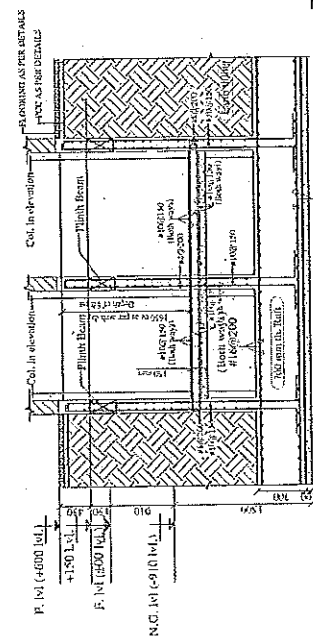
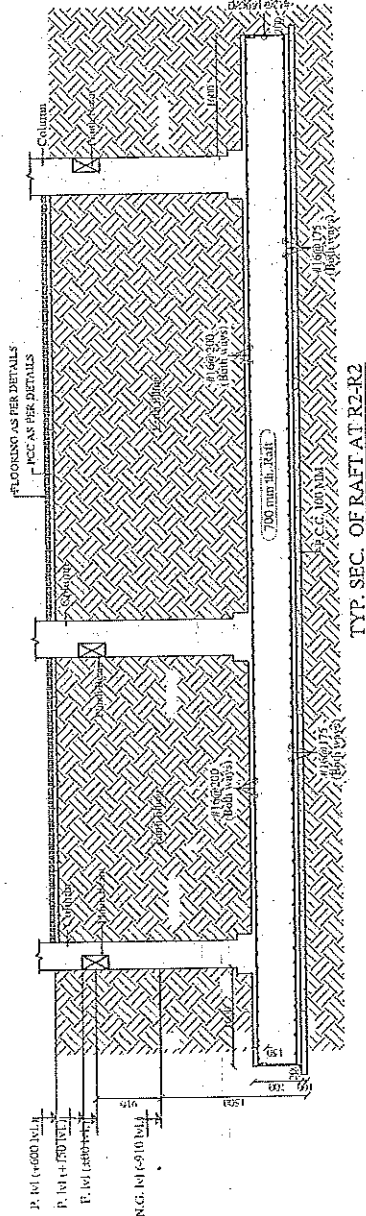
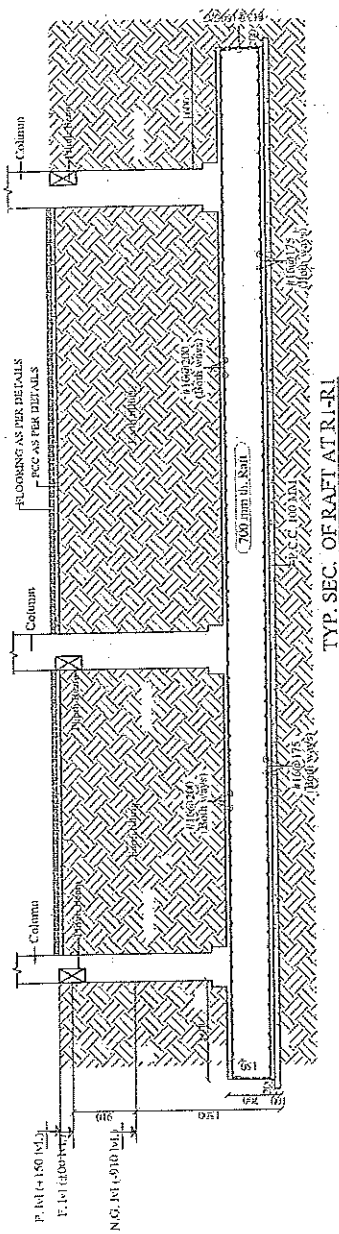


सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवेस निगम लि
निर्माण इकाई-कानपुर !

इकाई प्रयोगी
उ० प्र० पुलिस आवेस निगम लि
निर्माण इकाई-कानपुर !

PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINKU .DIST:FATEHPUR	AGENCY: U.P.P.A.N	CLIENT: 	DRG. TITLE: 2nd 3rd & 4th FLOOR TOILET & KITCHEN DETAIL		S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:
			NORTH:	DRG. NO.: AR-01-18	ASTT. ENGINEER:	J. ENGINEER	DATE: 23-Apr-26

169

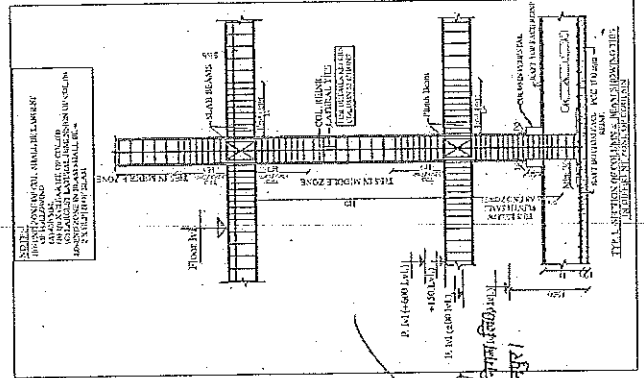
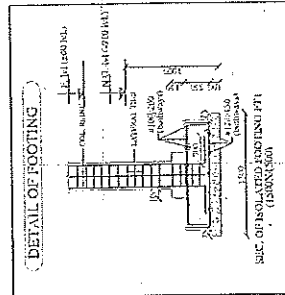


RAFT THICKNESS - 700 MM.

1160175 (Thro) bottom larvae)nf., both ways

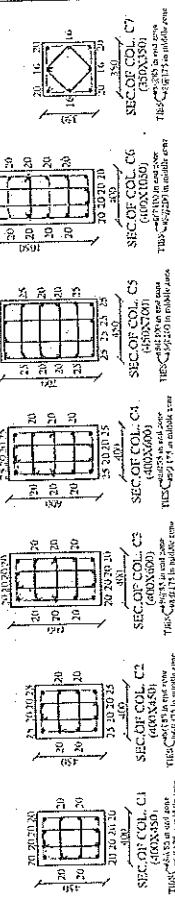
#160200 (Thore) Tom (see email below) ways

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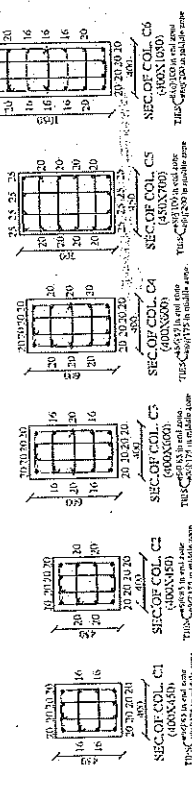
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DETAIL OF COLUMN REINFORCEMENT

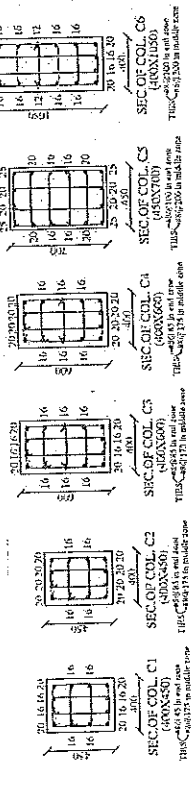
(1) COL. AT GROUND & 1st FLOOR



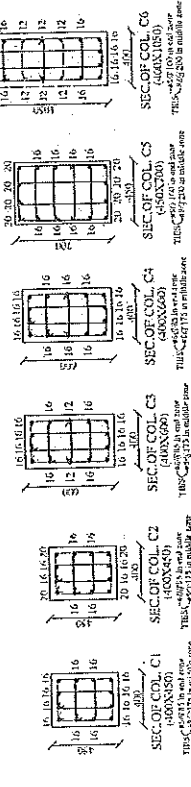
(2) COL. AT 2nd & 3rd FLOOR



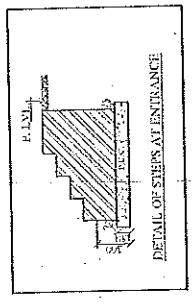
(3) COL. AT 4th & 5th FLOOR



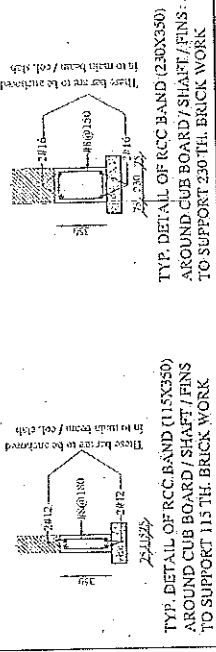
(4) COL. AT 6th FLOOR



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DETAIL OF R.C.C. BAND AT PLINTH LVL.



DETAILS OF PLINTH BEAMS AT PLINTH LEVEL

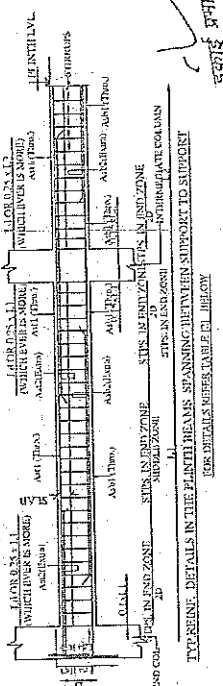


TABLE-2 DETAILS OF PLINTH BEAMS AT PLINTH LVL.

SR. NO.	PLINTH BEAM NO.	BEAM SIZE	TOP FACE REINFORCEMENT				BOTTOM FACE REINFORCEMENT				STIRRUPS			
			W	D	As1	As2	As3	As4	As5	As6	End Zone	Middle Zone	Side Face	End Zone
1	1	115 X 350	16	16	20	20	20	20	20	20	20	20	20	20
2	2	230 X 350	16	16	20	20	20	20	20	20	20	20	20	20
3	3	115 X 350	16	16	20	20	20	20	20	20	20	20	20	20
4	4	230 X 350	16	16	20	20	20	20	20	20	20	20	20	20
5	5	115 X 350	16	16	20	20	20	20	20	20	20	20	20	20
6	6	230 X 350	16	16	20	20	20	20	20	20	20	20	20	20
7	7	115 X 350	16	16	20	20	20	20	20	20	20	20	20	20
8	8	230 X 350	16	16	20	20	20	20	20	20	20	20	20	20
9	9	115 X 350	16	16	20	20	20	20	20	20	20	20	20	20
10	10	230 X 350	16	16	20	20	20	20	20	20	20	20	20	20

A&D CONSTRUCTION ARCHITECTURE
Architects & Interior Designers
B-10, KANPUR ROAD, KANPUR-208002
U.P.

SBC STRUCTURES
PUNJAB UNIVERSITY CAMPUS
L.R.

DR. RAJAN KUMAR KAPUR
ARCHITECT & INTERIOR DESIGNER
B-10, KANPUR ROAD, KANPUR-208002
U.P.

DETAILS OF BEAMS AT SLAB LEVEL

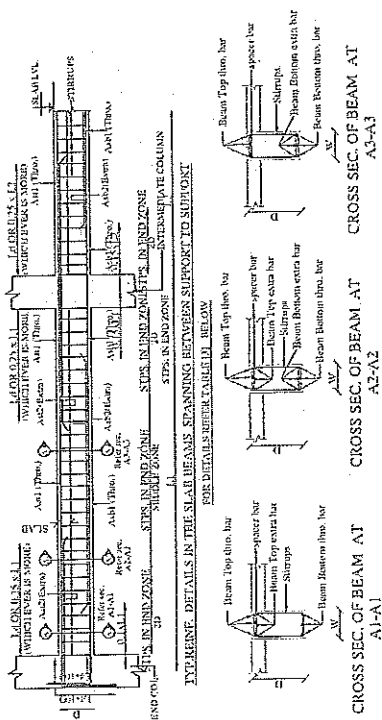
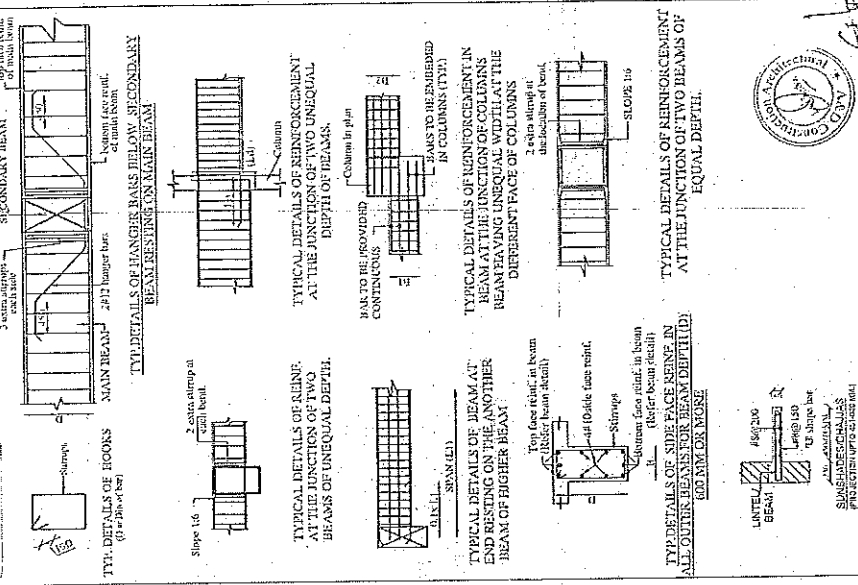


TABLE - 3. DETAILS OF BEAMS AT SLAB LEVEL

S. NO.	BEM. SIZE	LONGITUDINAL REINFORCEMENT				STIRRUPS	SIDE FACE REINFORCEMENT
		Top	Bottom	Top	Bottom		
1	100 x 200	4	4	2	2	6mm @ 150	6mm @ 150
2	125 x 250	4	4	2	2	6mm @ 150	6mm @ 150
3	150 x 300	4	4	2	2	6mm @ 150	6mm @ 150
4	175 x 350	4	4	2	2	6mm @ 150	6mm @ 150
5	200 x 400	4	4	2	2	6mm @ 150	6mm @ 150
6	225 x 450	4	4	2	2	6mm @ 150	6mm @ 150
7	250 x 500	4	4	2	2	6mm @ 150	6mm @ 150
8	275 x 550	4	4	2	2	6mm @ 150	6mm @ 150
9	300 x 600	4	4	2	2	6mm @ 150	6mm @ 150
10	325 x 650	4	4	2	2	6mm @ 150	6mm @ 150
11	350 x 700	4	4	2	2	6mm @ 150	6mm @ 150
12	375 x 750	4	4	2	2	6mm @ 150	6mm @ 150
13	400 x 800	4	4	2	2	6mm @ 150	6mm @ 150
14	425 x 850	4	4	2	2	6mm @ 150	6mm @ 150
15	450 x 900	4	4	2	2	6mm @ 150	6mm @ 150
16	475 x 950	4	4	2	2	6mm @ 150	6mm @ 150
17	500 x 1000	4	4	2	2	6mm @ 150	6mm @ 150
18	525 x 1050	4	4	2	2	6mm @ 150	6mm @ 150
19	550 x 1100	4	4	2	2	6mm @ 150	6mm @ 150
20	575 x 1150	4	4	2	2	6mm @ 150	6mm @ 150

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निगम इकाई-कागपुर 1

TYP. DETAILS



DETAILS OF LINTELS

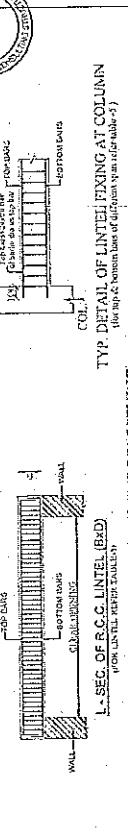


TABLE-5. DETAIL OF LINTELS FOR DOOR / WINDOW OPENING

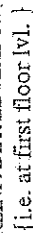
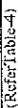
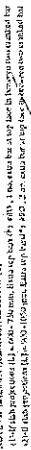
DOOR / WINDOW OPENING (L)	Lintel Cross Section (B x D)	FOR 230 TH WALL		FOR 115 TH WALL	
		Top Bars	Bottom Bars	Top Bars	Bottom Bars
1. > 750 x 1000	230 x 125	2 # 12	2 # 10	2 # 10	2 # 10
2. > 1000 x 1300	230 x 150	2 # 12	2 # 10	2 # 10	2 # 10
3. > 1300 x 2000	230 x 175	2 # 12	2 # 10	2 # 10	2 # 10
4. > 2000 x 2500	230 x 200	2 # 12	2 # 10	2 # 10	2 # 10

FOR 115 TH WALL

DOOR / WINDOW OPENING (L)	Lintel Cross Section (B x D)	FOR 230 TH WALL		FOR 115 TH WALL	
		Top Bars	Bottom Bars	Top Bars	Bottom Bars
1. > 750 x 1000	230 x 125	2 # 12	2 # 10	2 # 10	2 # 10
2. > 1000 x 1300	230 x 150	2 # 12	2 # 10	2 # 10	2 # 10
3. > 1300 x 2000	230 x 175	2 # 12	2 # 10	2 # 10	2 # 10
4. > 2000 x 2500	230 x 200	2 # 12	2 # 10	2 # 10	2 # 10

FOR 230 TH WALL

DOOR / WINDOW OPENING (L)	Lintel Cross Section (B x D)	FOR 230 TH WALL		FOR 115 TH WALL	
		Top Bars	Bottom Bars	Top Bars	Bottom Bars
1. > 750 x 1000	230 x 125	2 # 12	2 # 10	2 # 10	2 # 10
2. > 1000 x 1300	230 x 150	2 # 12	2 # 10	2 # 10	2 # 10
3. > 1300 x 2000	230 x 175	2 # 12	2 # 10	2 # 10	2 # 10
4. > 2000 x 2500	230 x 200	2 # 12	2 # 10	2 # 10	2 # 10

(8v)[illegible]

100

Year	Percentage of Population Aged 65 and Over
1950	7.0
1960	8.5
1970	10.0
1980	11.5

2

7

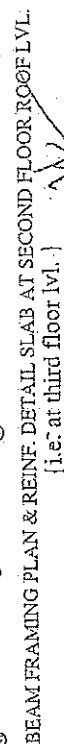
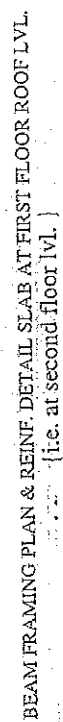
इ.स. १९००

८० प्र० मुलैस आवत १३११ ११०.

निर्गुण दुःखद/कानपुर/

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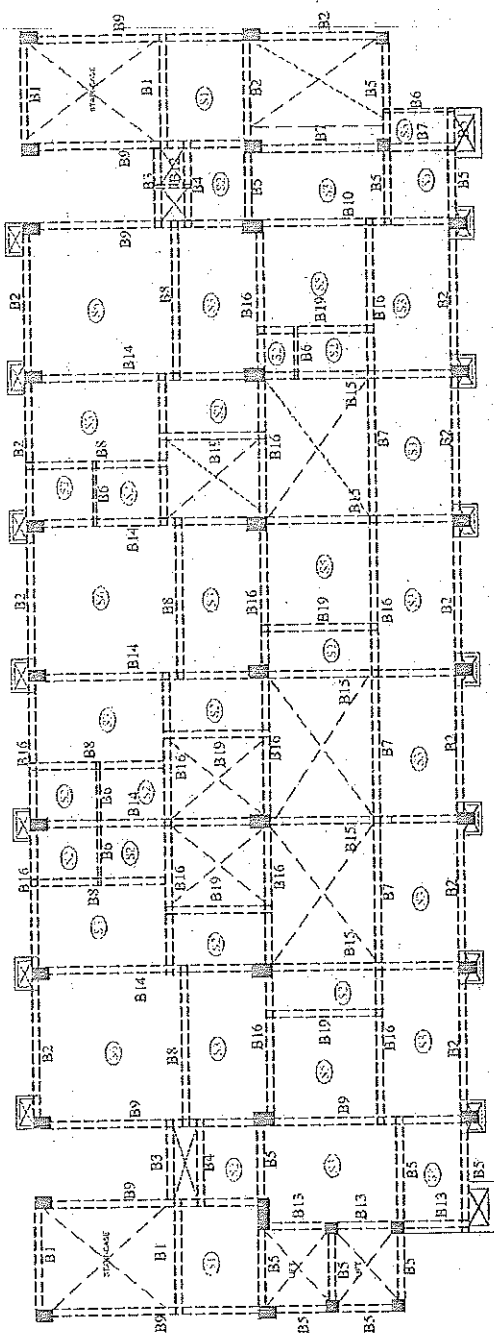


इसमें प्रथमी
उप प्र० पुलिस आवास निगम लिड.
निर्माण इकाई, कानपुर।

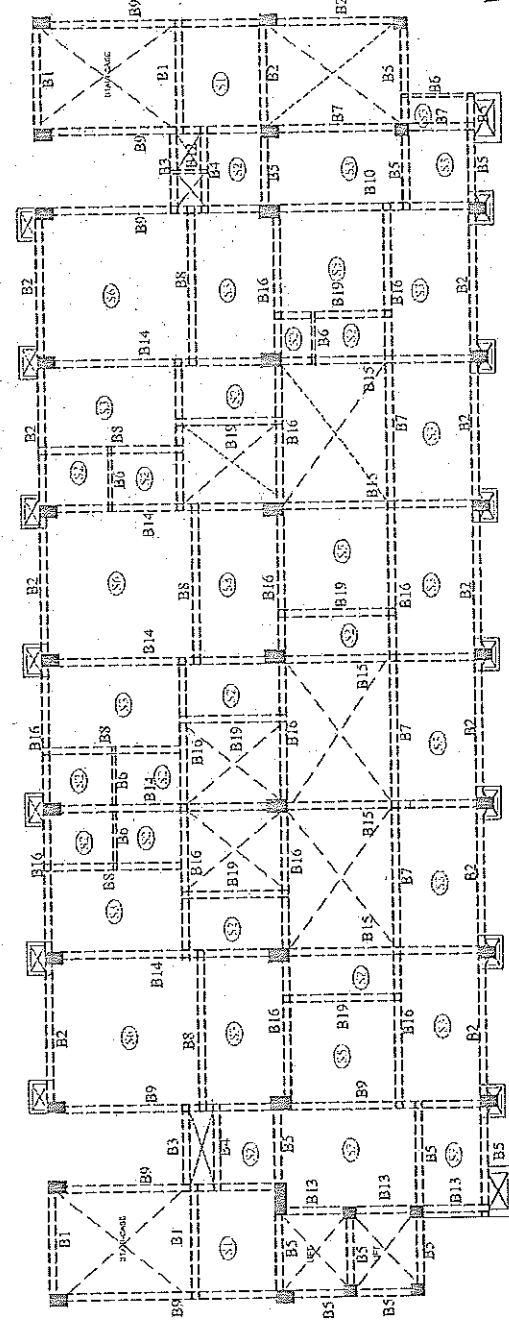
७ सहायक अधिकारी
प्रदेश पुलिस आचार्य विनय विद्या
निर्माण इकाई-वायनापुर ।

PROJECT		PHOTOGRAPH REPAIRS (2 UNITS) (MOUNTAIN JUSTICE) (2 UNITS) (MOUNTAIN JUSTICE)		ST 405		OFFICE	
1. NAME		2. ADDRESS		3. CITY		4. STATE	
5. PHONE		6. FAX		7. E-MAIL		8. WEBSITE	
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BEAM FRAMING PLAN & REIN. DETAIL SLAB AT THIRD FLOOR ROOF LVL.
(i.e. at fourth floor lvl.)

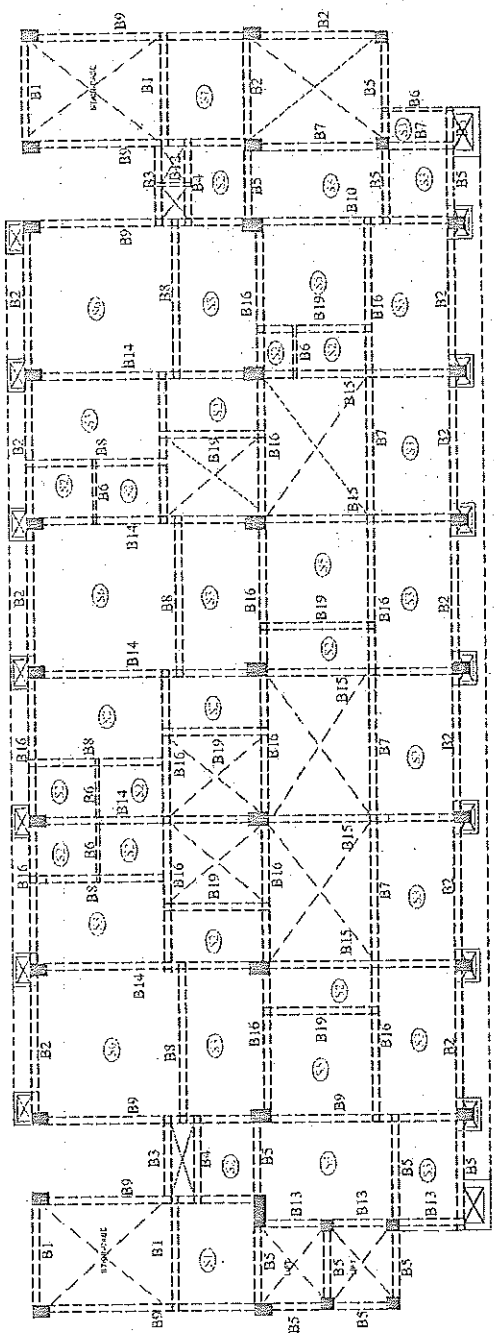


BEAM FRAMING PLAN & REINF. DETAIL SLAB AT FOURTH & FIFTH FLOOR ROOF LVL.
(i.e. at sixth floor lvl.)

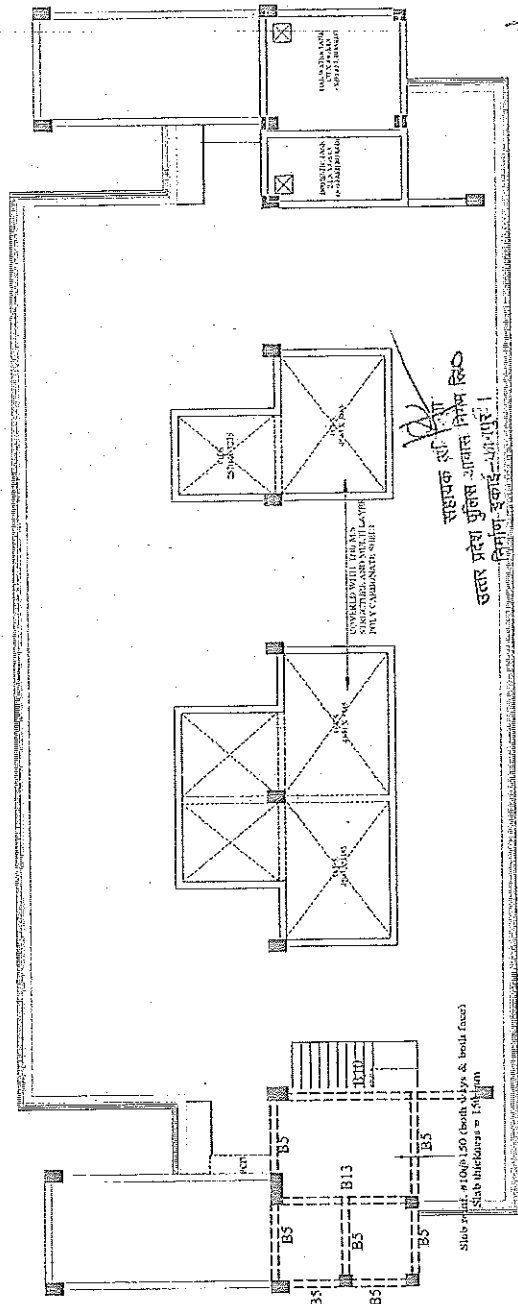


हृदयई प्रमोद
सो प्रो पुलकितजायस अभिव्यक्ति
उत्तानिर्भाषा कुजिज्ञा आत्मपुराणिम लि०
निर्माण इकाई-कॉन्सुलर ।

उत्ताह प्रवेश पुलिस आताच निगम लिपि
निर्मण इकाई-२५२ ।



BEAM FRAMING PLAN & REINF. DETAIL SLAB AT SIXTH FLOOR ROOF LVL.
(i.e. at terrace lvl.)

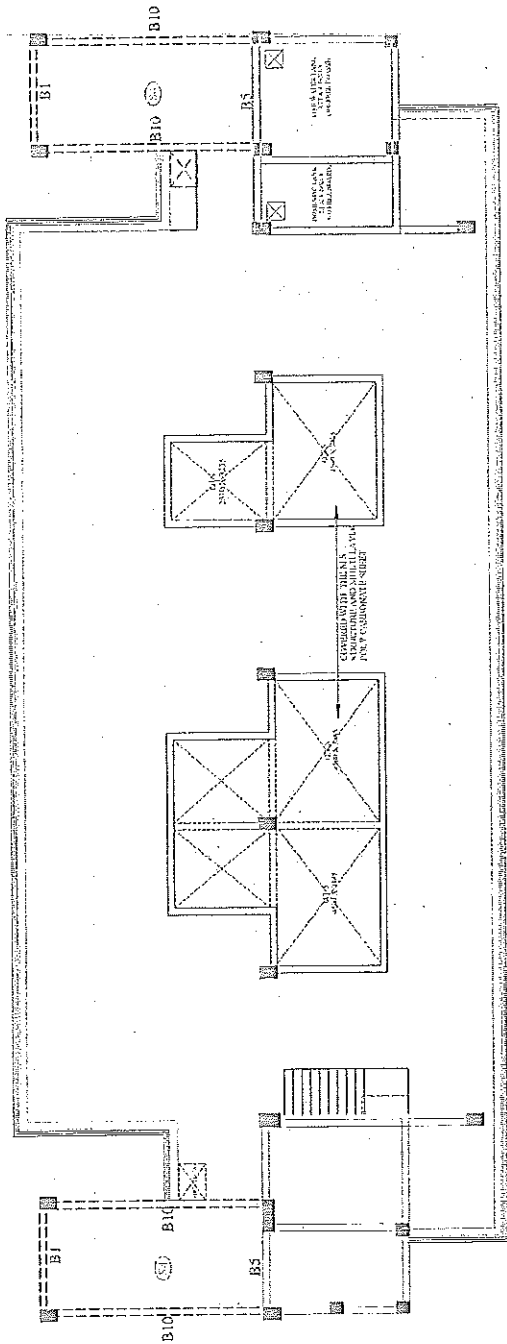


BEAM FRAMING PLAN
&
REINF. DETAIL OF MACHINE ROOM FLOOR LVL. SLAB
Slab reinf. #10 @ 150 (both ways & both faces)
Slab thickness = 150 mm

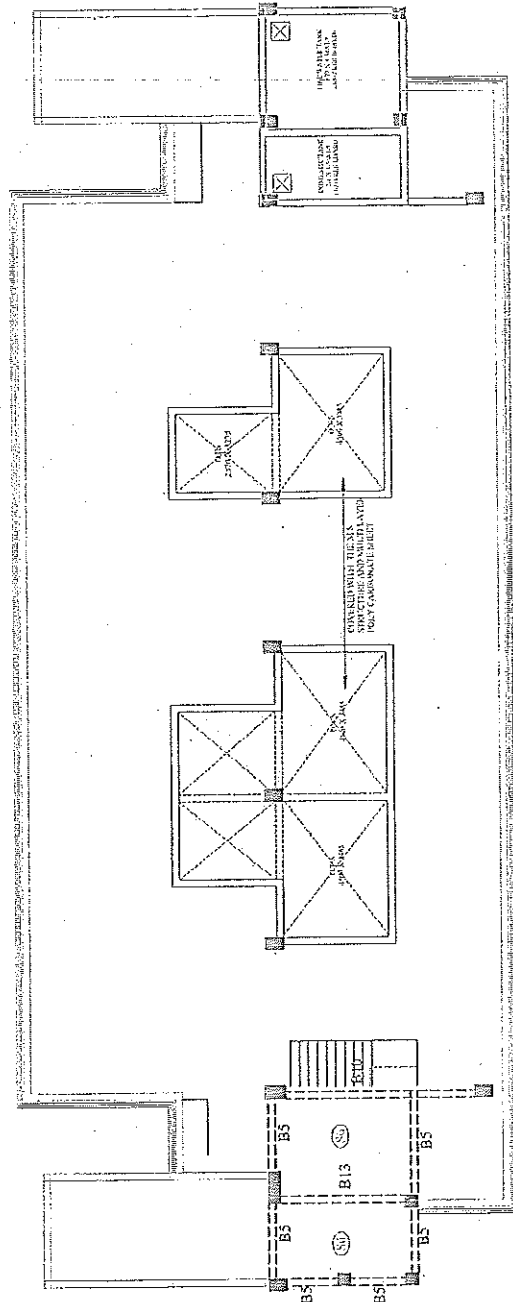


इकाई प्रमोरी
उप 20 मुक्ति आवास निगम लि.
निर्माण इकाई कानपुर।

PROPOSED FIRE STATION (2 UNITS AT BUNDGA JUST NEAR FOUR)		DETAIL OF 4TH FLOOR & MACHINE ROOM	
DATE: 10/01/2017	BY: SBC	DATE: 10/01/2017	BY: SBC
SCALE: 1/4" = 1'-0"	SCALE: 1/4" = 1'-0"	SCALE: 1/4" = 1'-0"	SCALE: 1/4" = 1'-0"
PROJECT: FIRE STATION	PROJECT: FIRE STATION	PROJECT: FIRE STATION	PROJECT: FIRE STATION
CLIENT: FIRE STATION	CLIENT: FIRE STATION	CLIENT: FIRE STATION	CLIENT: FIRE STATION
DESIGNER: SBC	DESIGNER: SBC	DESIGNER: SBC	DESIGNER: SBC
APPROVED: SBC	APPROVED: SBC	APPROVED: SBC	APPROVED: SBC
A&D CONSTRUCTION ARCHITECTURE architects-engineers & interior designers ADDRESS: 201/2, VIKAS NAGAR, GATE NO. 1, PUNE-411 004 PHONE: 020-26111111, 26111112		SBC STRUCTURES CONSULTANTS ENGINEERS ADDRESS: 201/2, VIKAS NAGAR, GATE NO. 1, PUNE-411 004 PHONE: 020-26111111, 26111112	
STRUCTURAL SIMULATION		STRUCTURAL SIMULATION	
SBC		SBC	



BEAM FRAMING PLAN
&
REINF. DETAIL OF MUMTY SLAB



BEAM FRAMING PLAN
&
REINF. DETAIL OF MACHINE ROOM ROOF LVL. SLAB

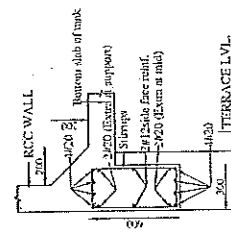
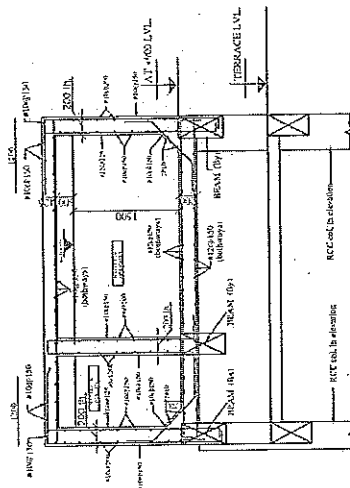
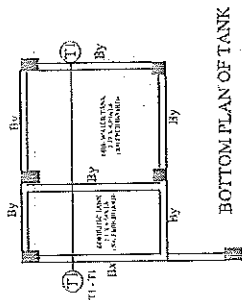
सहायक अभियंता
उत्तर प्रदेश पुलिस आवास निगम लि.
विभाग, इलाहाबाद-201001

इकाई प्रभारी
उत्तर प्रदेश पुलिस आवास निगम लि.
विभाग, इलाहाबाद-201001

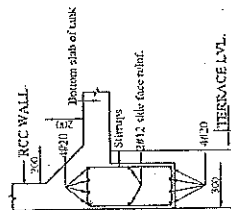


PROPOSED PROJECT NAME (2 UNITS) AT PHINSAI, DISTT. FAIZABAD	PROJECT NO. 100/2019	DATE OF ISSUE 10/01/2020
DETAIL OF MUMTY & MACHINE ROOM	SCALE 1:100	DATE OF ISSUE 10/01/2020
ARCHITECT A&D CONSTRUCTION ARCHITECTURE architects, engineers & interior designers ADDRESS: 201A, VARDHANA, 201001, UTTAR PRADESH CONTACT NO.: 91-9801744834, 74462803	ENGINEER SBC STRUCTURES PROJECT NO. 100/2019	DATE OF ISSUE 10/01/2020

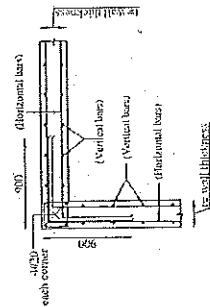
111



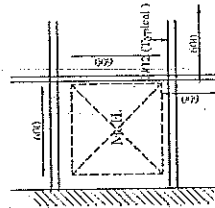
DETAIL OF TANK BEAM (BX)
(300X600)
Stirrups #10@100 in end zone
Stirrups #10@150 in middle zone



DETAIL OF TANK BEAM (BY)
(300X600)
Stirrups #10@100 in end zone
Stirrups #10@150 in middle zone



DETAIL OF CORNER OF TANK WALL



TYP. DETAILS OF MANHOLE
(600 X 600)



A&D CONSTRUCTION ARCHITECTURE
Architects, Engineers & Interior Designers
AGARWAL, SHARMA, MEHTA, GUPTA & COMPANY
LOCALITY: PH-40401 IN INDIA, 756042003

SBC STRUCTURES
STRUCTURAL CONSULTANTS
MA. RANJAN, S. K. P. RANJAN, S. K. P. RANJAN
LOCALITY: PH-40401 IN INDIA, 756042003

PROPOSED FIRE STATION
GUNTUR AT HINDRA, DINDIGUL

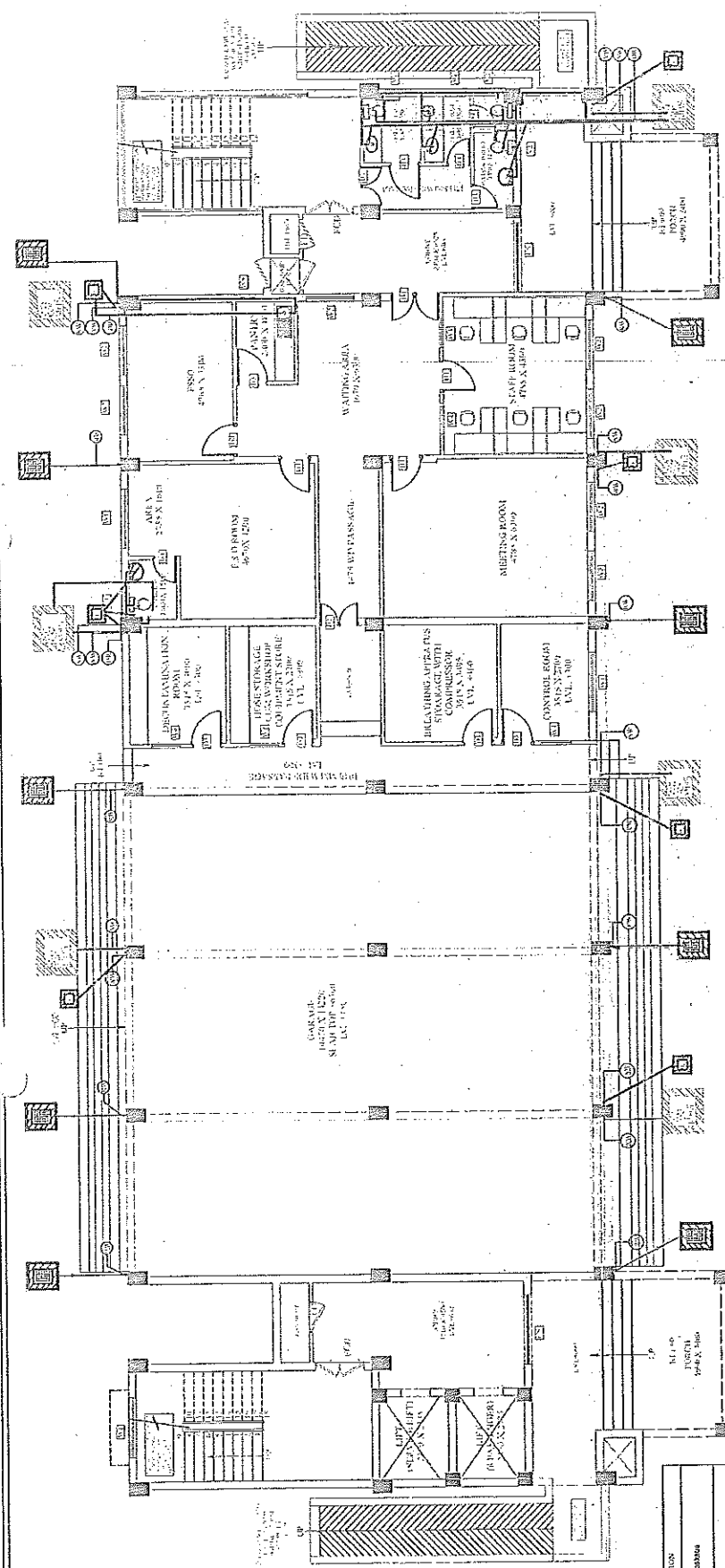
DETAIL OF WATER TANK

CONSTRUCTION DETAILS

UP PLAN

ST-1.2

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FOR EXACT LOCATION OF ALL MANHOLE, JUNCTION BOXES AND ITS PIPE DIAMETER SLOPE INVERT LEVELS PLEASE REFER EXTERNAL SERVICES SHE LAYOUT PLAN

GENERAL NOTES

1. W.C TO SOIL STACK - 1100 UPVC SWR TYPE B PIPE
2. F.T TO WASTE STACK - 1100 UPVC SWR TYPE B PIPE
3. WASH BASIN TO F.T - 320 UPVC WASTE PIPE
4. KITCHEN SINK TO F.T - 400 UPVC WASTE PIPE
5. F.T TO G.T - 1100 UPVC WASTE PIPE
6. SOIL STACK TO M.H.S - 1100 UPVC PIPE
7. WASTE STACK TO G.T - 1100 UPVC PIPE
8. CPVC PIPES FOR INTERNAL DOMESTIC WATER SUPPLY
9. CPVC PIPES FOR TERRACE & SHAFT WATER SUPPLY
10. 1100 UPVC SWR TYPE A PIPES USED FOR TERRACE RAIN WATER
11. INTERNAL DRAINAGE PIPES SHALL LAY AT SLOPE OF 1 IN 60
12. SLOPE AT TERRACE SHOULD BE OF 1 IN 150

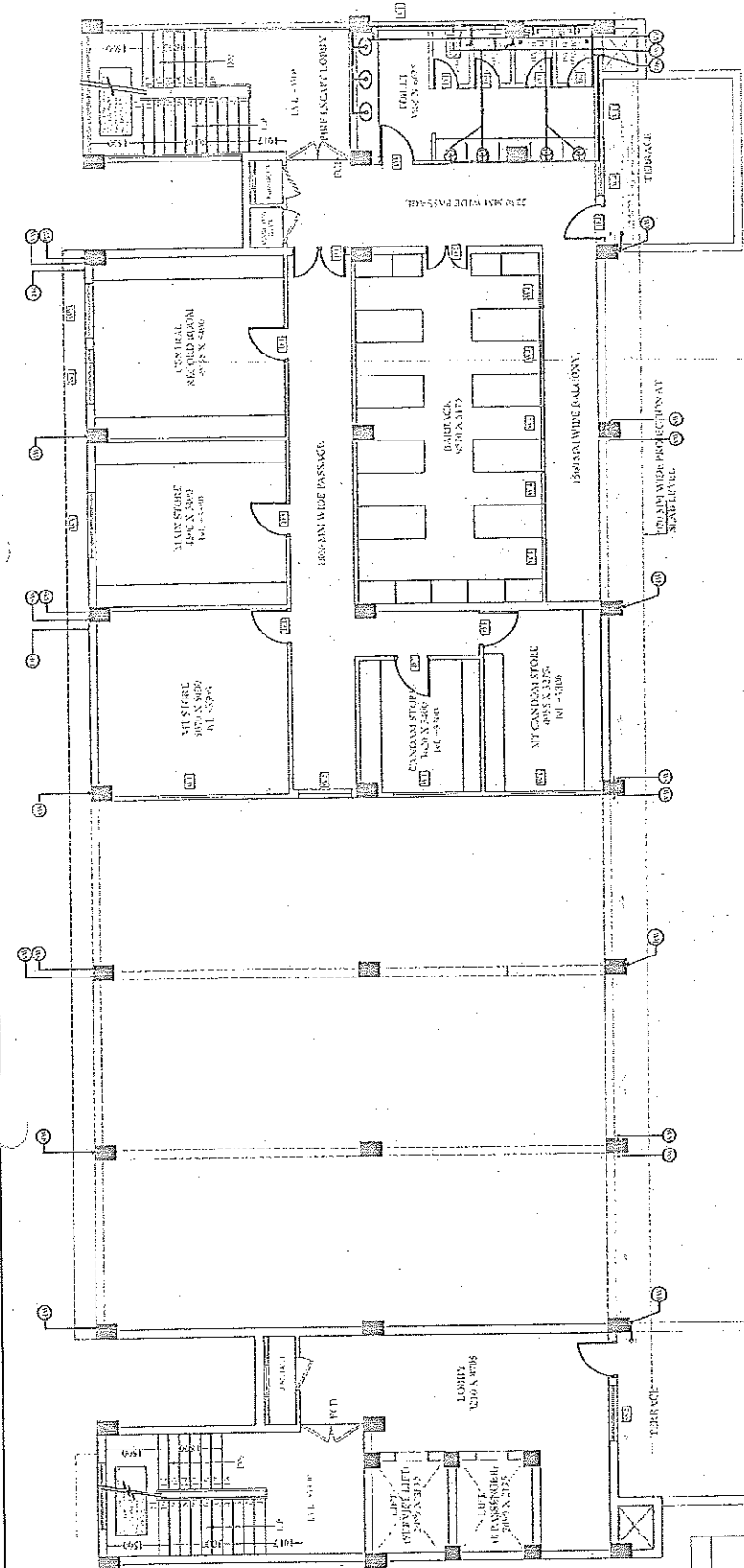
इकाई प्रमाण
उक्त प्रो पुलिस आवास निगम लि.
निमाण इकाई कागज



सहायक अभियन्ता
उक्त प्रदेश पुलिस आवास निगम लि.
निमाण इकाई कागज

Sl. No.	SYMBOL	DESCRIPTION
1.		KITCHEN SINK
2.		WASH BASIN
3.		TOILET
4.		SHOWER
5.		BATHING AREA
6.		MEETING ROOM
7.		CONFERENCE ROOM
8.		RECEPTION
9.		WAITING AREA
10.		STAIRCASE
11.		LIFT SHAFT
12.		MANHOLE
13.		JUNCTION BOX
14.		PIPE
15.		VALVE
16.		TRAP
17.		STACK
18.		VENT
19.		DRAIN
20.		SUMP
21.		WATER SUPPLY
22.		WASTE WATER
23.		RAIN WATER
24.		TERRACE WATER
25.		SHAFT WATER
26.		INTERNAL DRAINAGE
27.		SLOPE

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE: GROUND FLOOR PLUMBING PLAN	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A.D. CONSTRUCTION ARCHITECTS architects, engineers & interior designers ADDRESS: 21/1, VIKRAM NAGAR, GATEWAY-4, LUCKNOW PH - 014091741454, 7986433008
				ASST. ENGINEER:	J. ENGINEER:	DATE:	
PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT: FAIZABAD				DRG. NO.:	23-A pr-26		
				NORTH:			



FOR EXACT LOCATION OF ALL CATCH BASINS AND ITS PIPE DIA. & SLOPE INVERT LEVELS PLEASE REFER EXTERNAL SERVICES SITE LAYOUT PLAN

GENERAL NOTES

1. W.C TO SOIL STACK - 1100 UPVC SWR TYPE B PIPE
2. F.T TO WASTE STACK - 1100 UPVC SWR TYPE B PIPE
3. WASH BASIN TO F.T - 320 UPVC WASTE PIPE
4. KITCHEN SINK TO F.T - 400 UPVC WASTE PIPE
5. F.T TO G.T - 1100 UPVC WASTE PIPE
6. SOIL STACK TO M.H.S - 1100 UPVC PIPE
7. WASTE STACK TO G.T - 1100 UPVC PIPE
8. CPVC PIPES FOR INTERNAL DOMESTIC WATER SUPPLY
9. CPVC PIPES FOR TERRACE & SHAFT WATER SUPPLY
10. 1100 UPVC SWR TYPE A PIPES USED FOR TERRACE & SHAFT WATER SUPPLY
11. INTERNAL DRAINAGE PIPES SHALL LAY AT SLOPE OF 1 IN 150
12. SLOPE AT TERRACE SHOULD BE OF 1 IN 150

उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई - कानपुर १
इकाई - २३
30 पुलिस आवास निगम लि०
निर्माण इकाई, कानपुर

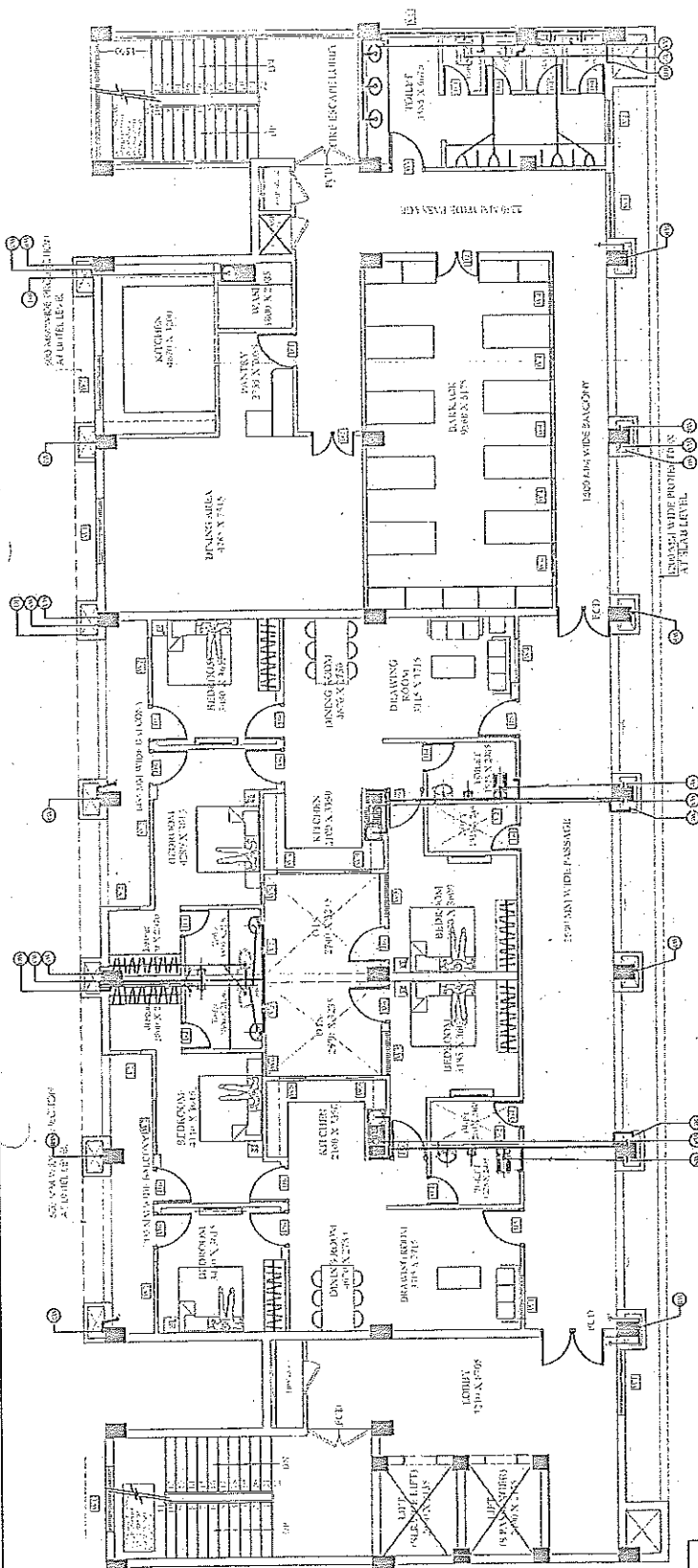
सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई - कानपुर १



S.NO.	SYMBOL	DESCRIPTION
1.		1/2" DIA. DRAIN PIPE
2.		1/2" TRAP
3.		1/2" TRAP STOPCOCK
4.		1/2" TRAP STOPCOCK
5.		1/2" TRAP STOPCOCK
6.		1/2" TRAP STOPCOCK
7.		1/2" TRAP STOPCOCK
8.		1/2" TRAP STOPCOCK
9.		1/2" TRAP STOPCOCK
10.		1/2" TRAP STOPCOCK
11.		1/2" TRAP STOPCOCK
12.		1/2" TRAP STOPCOCK
13.		1/2" TRAP STOPCOCK
14.		1/2" TRAP STOPCOCK
15.		1/2" TRAP STOPCOCK
16.		1/2" TRAP STOPCOCK
17.		1/2" TRAP STOPCOCK
18.		1/2" TRAP STOPCOCK
19.		1/2" TRAP STOPCOCK
20.		1/2" TRAP STOPCOCK
21.		1/2" TRAP STOPCOCK
22.		1/2" TRAP STOPCOCK
23.		1/2" TRAP STOPCOCK
24.		1/2" TRAP STOPCOCK

PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI ..DISTT:-FAITEHPUR	AGENCY: U.P.P.A.N	CLIENT:	DRG. TITLE: FIRST FLOOR PLUMBING PLAN	S.ENGINEER: ASTT.ENGINEER: J.ENGINEER: DATE: 23-Apr-26	ARCHITECT: A&D CONSTRUCTION ARCHITECTS architects engineers & interior designers ADDRESS: 27/1, VISHWAS BHAW, COMPTON AGAR, LUCKNOW Ph:-91-808 174 1451, 7069423005
	ARCHITECT CONSULTANT				

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* FOR EXACT LOCATION OF ALL DRAINAGE CATCH BASINS AND ITS PIPE DIAMETER SLOPE INVERT LEVELS PLEASE REFER EXTERNAL SERVICES SITE LAYOUT PLAN

GENERAL NOTES

1. W.C TO SOIL STACK - 1100 UPVC SWR TYPE B PIPE
2. F.T TO WASTE STACK - 1100 UPVC SWR TYPE B PIPE
3. WASH BASIN TO F.T - 320 UPVC WASTE PIPE
4. KITCHEN SINK TO F.T - 400 UPVC WASTE PIPE
5. F.T TO G.T - 1100 UPVC WASTE PIPE
6. SOIL STACK TO M.H.S - 1100 UPVC PIPE
7. WASTE STACK TO G.T - 1100 UPVC PIPE
8. CPVC PIPES FOR INTERNAL DOMESTIC WATER SUPPLY
9. CPVC PIPES FOR TERRACE & SHAFT WATER SUPPLY
10. 1100 UPVC SWR TYPE A PIPES USED FOR TERRACE RAIN WATER
11. INTERNAL DRAINAGE PIPES SHALL LAY AT SLOPE OF 1 IN 60
12. SLOPE AT TERRACE SHOULD BE OF 1 IN 150

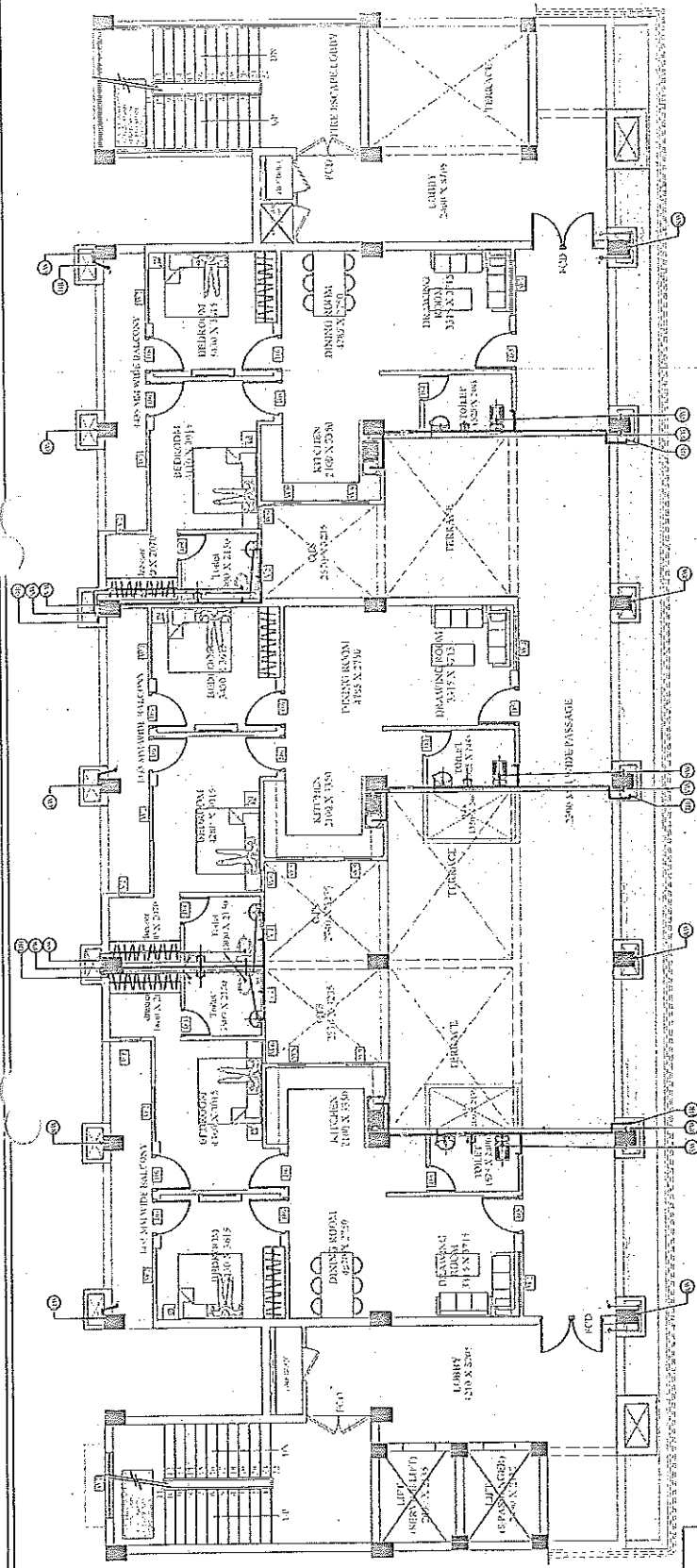


सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवास विभाग
विभागीय इकाई-कानपुर

इकाई प्रभारी
उत्तर प्रदेश पुलिस आवास विभाग
विभागीय इकाई-कानपुर

S.NO	SYMBOL	DESCRIPTION
1.		NEWER MANHOLE BOXING
2.		GATE VALVE
3.		GULLY TRAP
4.		FIRE WALL MOUNTED
5.		HEALTH FAUCET
6.		POT STILL WITH DRAIN BOARD
7.		FLOOR DRAIN
8.		SHOWER WITH MIXER / CENTER
9.		TOILET TRAP
10.		ANGLE VALVE
11.		FLOOR DRAIN 150 DIA
12.		BUTTERY VALVE
13.		DOMESTIC BENCH P.P.C FOR TANK
14.		TURBIDITY POINT P.P.C
15.		WASTE WATER DRAIN 150 DIA
16.		SOIL WATER DRAIN 150 DIA
17.		DOMESTIC WATER SUPPLY 150 DIA
18.		WATER WASTE WATER PIPE
19.		SEWAL WASTE WATER PIPE
20.		RAINWATER WATER PIPE
21.		FIRE WATER SUPPLY 150 DIA
22.		FIRE WATER SUPPLY 150 DIA

PROJECT:		AGENCY:		CLIENT:		DRG. TITLE:		S.ENGINEER:		EXE. ENGINEER:		ARCHITECT:	
PROPOSED FIRE STATION (2 UNITS) AT BINDKI -DISTT:-FATEHPUR		U.P.P.A.N				SECOND FLOOR PLUMBING PLAN						A&D - CONSTRUCTION ARCHITECTURE architects_enginers & interior designers ADDRESS-201/1, VISHWAKS MANID, COULDHAGAR, LUCKNOW PIN-221001 TEL-75031156, 750312000	
						NORTH:		ASST. ENGINEER:		JENGINEER		DATE:	
						DRG. NO.:						23-Apr-26	



S. NO.	SYMBOL	PLAN REVISION
1.		SEWER MANHOLE OPENING
2.		CATCH BASIN WITH OVERFLOW
3.		GULLY TRAP JUNCTION
4.		EYE WALL SHOWER
5.		HEALTH FIXTURE
6.		KITCHEN SINK WITH DRAIN BOARD
7.		FLAT BACK WASH BASIN WITH WATER SUPPLY
8.		SHOWER WITH DRAIN CENTER
9.		BOTTLE TRAP
10.		ANGLE VALVE
11.		FLOOR DRAIN 100 DIA
12.		FLOOR DRAIN 150 DIA
13.		OUTLET VALVE
14.		RAINWATER TANK FOR RAIN
15.		RAINWATER TANK FOR RAIN
16.		RAINWATER TANK FOR RAIN
17.		RAINWATER TANK FOR RAIN
18.		RAINWATER TANK FOR RAIN
19.		RAINWATER TANK FOR RAIN
20.		RAINWATER TANK FOR RAIN
21.		RAINWATER TANK FOR RAIN
22.		RAINWATER TANK FOR RAIN
23.		RAINWATER TANK FOR RAIN
24.		RAINWATER TANK FOR RAIN

FOR EXACT LOCATION OF ALL MANHOLE CATCH BASINS AND ITS PIPE DRAINAGE SLOPE INVERT LEVELS PLEASE REFER EXTERNAL SERVICES SITE CUTOFF PLAN

GENERAL NOTES

1. W.C TO SOIL STACK - 1100 UPVC SWR TYPE B PIPE
2. F.T TO WASTE STACK - 1100 UPVC SWR TYPE B PIPE
3. WASH BASIN TO F.T - 320 UPVC WASTE PIPE
4. KITCHEN SINK TO F.T - 400 UPVC WASTE PIPE
5. F.T TO G.T - 1100 UPVC WASTE PIPE
6. SOIL STACK TO M.H.S - 1100 UPVC PIPE
7. WASTE STACK TO G.T - 1100 UPVC PIPE
8. CPVC PIPES FOR INTERNAL DOMESTIC WATER SUPPLY
9. CPVC PIPES FOR TERRACE & SHAFT WATER SUPPLY
10. 1100 UPVC SWR TYPE A PIPES USED FOR TERRACE RAIN WATER
11. INTERNAL DRAINAGE PIPES SHALL LAY AT SLOPE OF 1 IN 100
12. SLOPE AT TERRACE SHOULD BE OF 1 IN 150

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निर्माण इकाई, कागपुर।

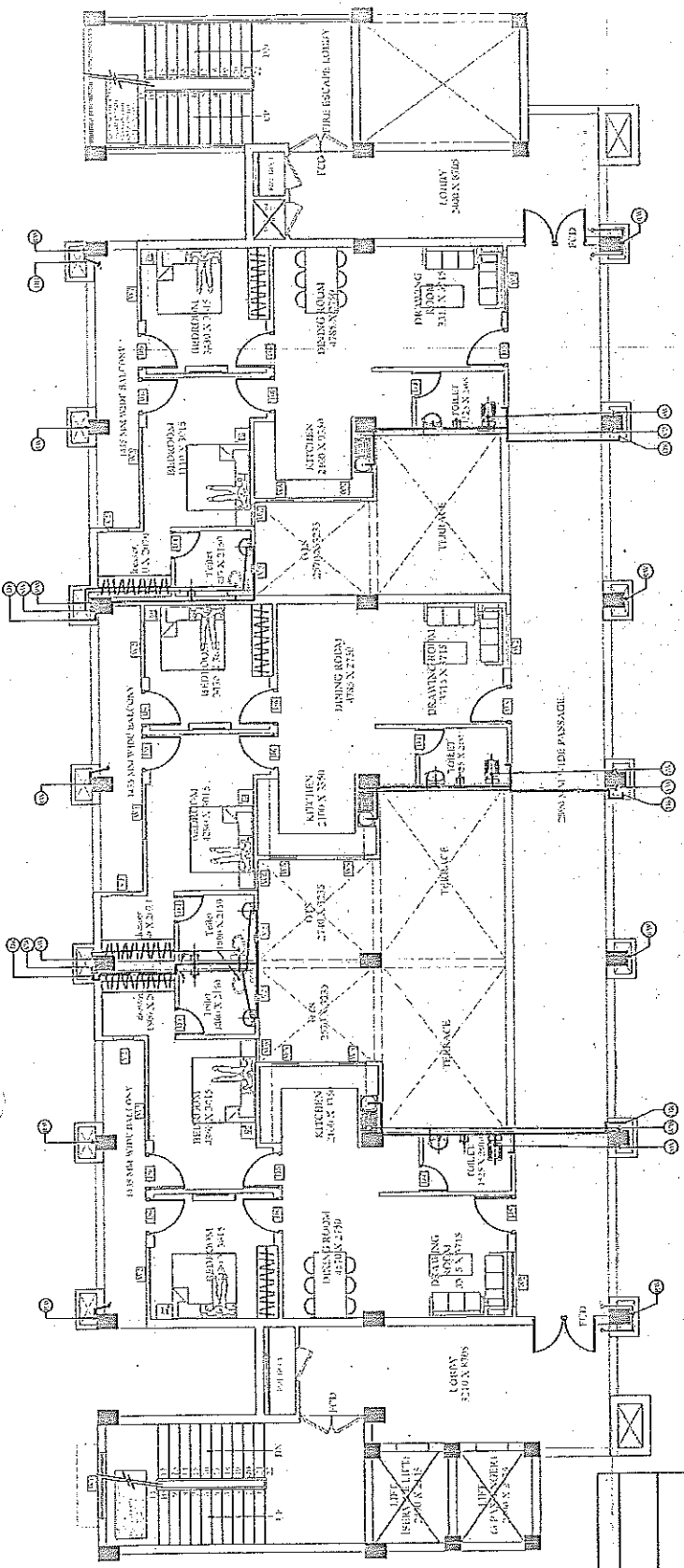
सहस्रक अभियन्ता



PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:	ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURE architects,engineers & interior designers ADDRESS-20/3, VISHWAS RHAND, GOMTI NAGAR, LUCKNOW Ph:-91-508171454, 7996423003
				THIRD FLOOR PLUMBING PLAN	EXE. ENGINEER:	
			NORTH:	DRG. NO.:	DATE:	
				PL -01-04	23-Apr-26	

PROPOSED FIRE STATION
(2 UNITS) AT BINDKI
DISTT.FATEHPUR

U.P.P.A.N



* FOR EXACT LOCATION OF ALL MANHOLE CATCH BASINS AND ITS PIPE DIAMETER SLOPE INVERT LEVELS PLEASE REFER EXTERNAL SERVICES SITE LAYOUT PLAN

GENERAL NOTES

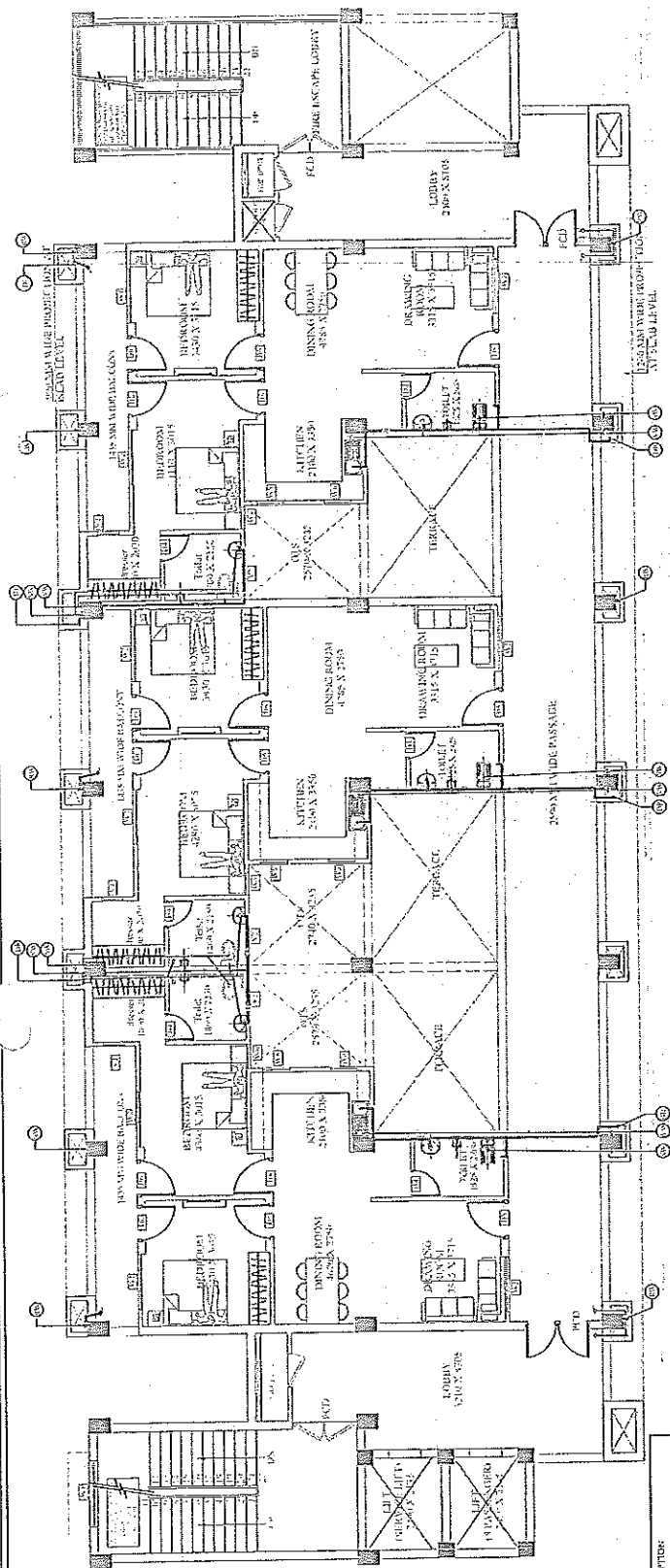
1. W/C TO SOIL STACK - 1100 UPVC SWR TYPE B PIPE
2. F.T TO WASTE STACK - 1100 UPVC SWR TYPE B PIPE
3. WASH BASIN TO F.T - 320 UPVC WASTE PIPE
4. KITCHEN SINK TO F.T - 400 UPVC WASTE PIPE
5. F.T TO G.T - 1100 UPVC WASTE PIPE
6. SOIL STACK TO M.H.S - 1100 UPVC PIPE
7. WASTE STACK TO G.T - 1100 UPVC PIPE
8. CPVC PIPES FOR INTERNAL DOMESTIC WATER SUPPLY
9. CPVC PIPES FOR TERRACE & SHAFT WATER SUPPLY
10. 1100 UPVC SWR TYPE A PIPES USED FOR TERRACE RAIN WATER
11. INTERNAL DRAINAGE PIPES SHALL LAY AT SLOPE OF 1 IN 100
12. SLOPE AT TERRACE SHOULD BE OF 1 IN 150



इकाई प्रभारी
उप प्रमुख आवास निर्माण विभाग
इकाई, कापुरी

सहायक अभियंता
उत्तर प्रदेश पुलिस आवास निर्माण विभाग
इकाई, कापुरी

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTT: FATEHPUR		AGENCY:	U.P.P.A.N		CLIENT:			DRG. TITLE:	FOURTH & FIFTH FLOOR PLUMBING PLAN		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURE architects, engineers & interior designers ADDRESS: 21/24, VISHWAS KHAND, CONTRA RAIN, LUCKNOW PH: -91-800-7741454, 7506463009
	NORTH:			DRG. NO.:	PL-01-05		DATE:	25-Apr-26							



FOR EXACT LOCATION OF ALL MANHOLE, CATCH BASINS
AND ITS PIPE DIAMETRE, SLOPE, INVERT LEVELS PLEASE REFER
EXTERNAL SERVICES SITE LAYOUT PLAN

GENERAL NOTES

- | | |
|-----|---|
| 1. | W.C TO SOIL STACK - 1100 UPVC SWR TYPE B PIPE |
| 2. | F.T TO WASTE STACK-1100 UPVC SWR TYPE B PIPE |
| 3. | WASH BASIN TO F.T - 320 UPVC WASTE PIPE |
| 4. | KITCHEN SINK TO F.T-400 UPVC WASTE PIPE |
| 5. | F.T TO G.T-1100 UPVC WASTE PIPE |
| 6. | SOIL STACK TO M.H.S - 1100 UPVC PIPE |
| 7. | WASTE STACK TO G.T - 1100 UPVC PIPE |
| 8. | CPVC PIPES FOR INTERNAL DOMESTIC WATER SUPPLY |
| 9. | CPVC PIPES FOR TERRACE & SHAFT WATER SUPPLY |
| 10. | 1100 UPVC SWR TYPE A PIPES, USED FOR TERRACE |
| 11. | INTERNAL DRAINAGE PIPES SHALL LAY AT SLOPE OF |
| 12. | 1 IN 150 |

ARCHITECT CONSULTANTS

A&D CONSTRUCTION ARCHITECTURE
architects, engineers & interior designers

ADDRESS: 2121, VISWAAS KHAND, CHHILASAR,
LUCKNOW PH. +91-505741454, 7906423008

EXE. ENGINEER: _____ **ARCHITECT:** _____

ENGINEER:

ORG 1111 E.

CLIENT:

AGENCY:

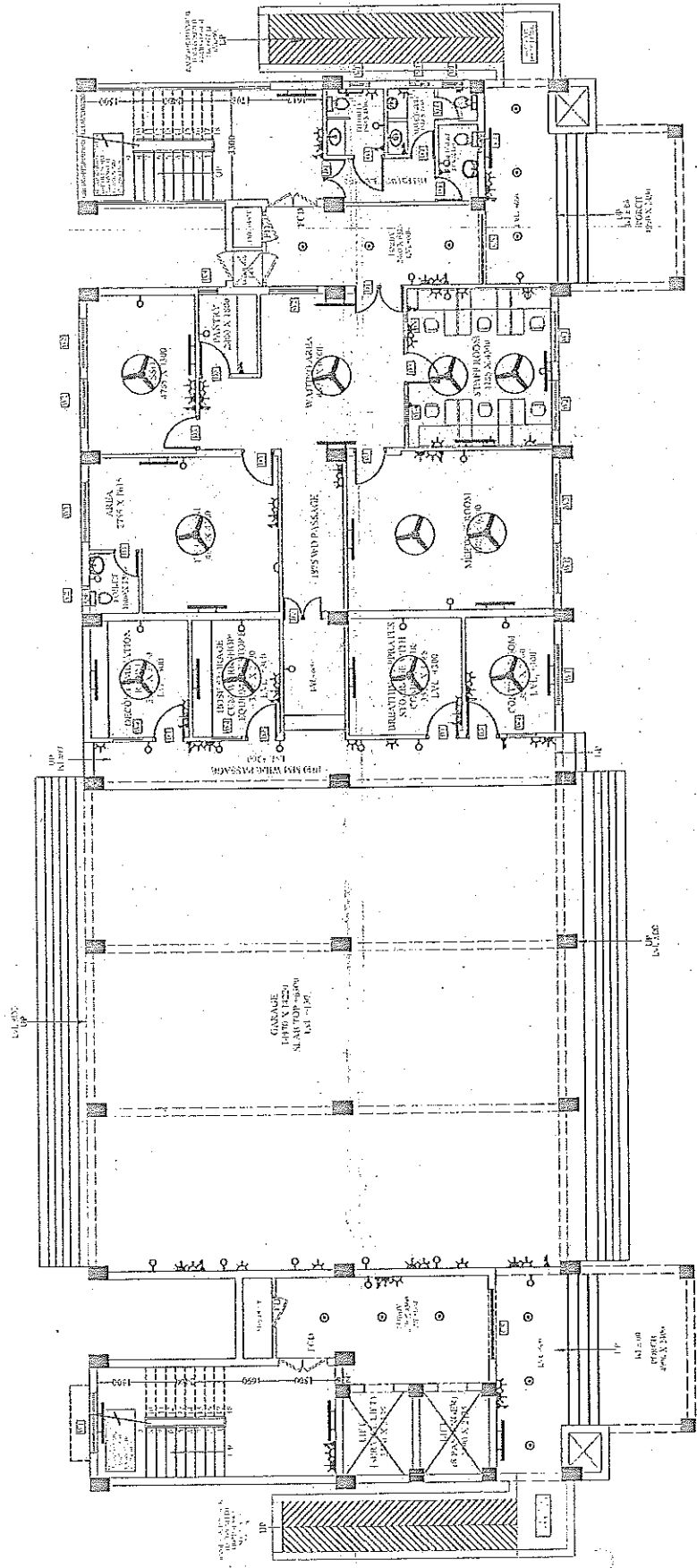
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PROJECT:

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इकाई प्रमोदी
निर्माण इकाई, कानपुर।
एड प्रो पुस्तिका आवास निगम लि०

सहायक अभियंता
उत्तर प्रदेश पुलिस आवास निगम लि०
निर्माण इकाई-कानपुर ।

SL. NO.	SYMBOL	DESCRIPTION
1.		KITCHEN SINK WITH DRAIN BOARD
2.		CATCH BASIN
3.		GULLY TRAP
4.		ONE WALL MOUNTED TOILET
5.		HEALTH FAUCET
6.		KITCHEN SINK WITH DRAIN BOARD
7.		FLAT SINK WITH BASIN AND WATER TAP
8.		SHOWER WITH MIXED CONTROL
9.		BOTTLE TRAP
10.		SINKABLE WATER
11.		FLOOR TRAP 100 DIA
12.		FLOOR DRAIN 60 DIA
13.		BATHROOM VALVE
14.		DOMESTIC WATER PIPE FOR TANK
15.		NON-PRESSURIZED WATER PIPE FOR DRAINAGE
16.		WASTE WATER DOWN PIPE 100 DIA
17.		SOIL WATER DOWN PIPE 100 DIA
18.		DOMESTIC WATER SUPPLY DOWN PIPE
19.		WATER WASTE WATER PIPE
20.		SOIL WASTE WATER PIPE
21.		RAINWATER WATER PIPE
22.		DOMESTIC WATER SUPPLY PIPE
23.		HOT WATER SUPPLY PIPE
24.		SEWER FILLING LINE



ELECTRICAL DRAWING			ELECTRICAL SYMBOLS		
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	⊙	100WATT LIGHT	16	⊙	100WATT LIGHT
2	⊙	100WATT LIGHT	17	⊙	100WATT LIGHT
3	⊙	100WATT LIGHT	18	⊙	100WATT LIGHT
4	⊙	100WATT LIGHT	19	⊙	100WATT LIGHT
5	⊙	100WATT LIGHT	20	⊙	100WATT LIGHT
6	⊙	100WATT LIGHT	21	⊙	100WATT LIGHT
7	⊙	100WATT LIGHT	22	⊙	100WATT LIGHT
8	⊙	100WATT LIGHT	23	⊙	100WATT LIGHT
9	⊙	100WATT LIGHT	24	⊙	100WATT LIGHT
10	⊙	100WATT LIGHT	25	⊙	100WATT LIGHT
11	⊙	100WATT LIGHT	26	⊙	100WATT LIGHT
12	⊙	100WATT LIGHT	27	⊙	100WATT LIGHT
13	⊙	100WATT LIGHT	28	⊙	100WATT LIGHT
14	⊙	100WATT LIGHT	29	⊙	100WATT LIGHT
15	⊙	100WATT LIGHT	30	⊙	100WATT LIGHT
16	⊙	100WATT LIGHT	31	⊙	100WATT LIGHT
17	⊙	100WATT LIGHT	32	⊙	100WATT LIGHT
18	⊙	100WATT LIGHT	33	⊙	100WATT LIGHT
19	⊙	100WATT LIGHT	34	⊙	100WATT LIGHT
20	⊙	100WATT LIGHT	35	⊙	100WATT LIGHT
21	⊙	100WATT LIGHT	36	⊙	100WATT LIGHT
22	⊙	100WATT LIGHT	37	⊙	100WATT LIGHT
23	⊙	100WATT LIGHT	38	⊙	100WATT LIGHT
24	⊙	100WATT LIGHT	39	⊙	100WATT LIGHT
25	⊙	100WATT LIGHT	40	⊙	100WATT LIGHT
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27	⊙	100WATT LIGHT	42	⊙	100WATT LIGHT
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29	⊙	100WATT LIGHT	44	⊙	100WATT LIGHT
30	⊙	100WATT LIGHT	45	⊙	100WATT LIGHT
31	⊙	100WATT LIGHT	46	⊙	100WATT LIGHT
32	⊙	100WATT LIGHT	47	⊙	100WATT LIGHT
33	⊙	100WATT LIGHT	48	⊙	100WATT LIGHT
34	⊙	100WATT LIGHT	49	⊙	100WATT LIGHT
35	⊙	100WATT LIGHT	50	⊙	100WATT LIGHT
36	⊙	100WATT LIGHT	51	⊙	100WATT LIGHT
37	⊙	100WATT LIGHT	52	⊙	100WATT LIGHT
38	⊙	100WATT LIGHT	53	⊙	100WATT LIGHT
39	⊙	100WATT LIGHT	54	⊙	100WATT LIGHT
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41	⊙	100WATT LIGHT	56	⊙	100WATT LIGHT
42	⊙	100WATT LIGHT	57	⊙	100WATT LIGHT
43	⊙	100WATT LIGHT	58	⊙	100WATT LIGHT
44	⊙	100WATT LIGHT	59	⊙	100WATT LIGHT
45	⊙	100WATT LIGHT	60	⊙	100WATT LIGHT
46	⊙	100WATT LIGHT	61	⊙	100WATT LIGHT
47	⊙	100WATT LIGHT	62	⊙	100WATT LIGHT
48	⊙	100WATT LIGHT	63	⊙	100WATT LIGHT
49	⊙	100WATT LIGHT	64	⊙	100WATT LIGHT
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52	⊙	100WATT LIGHT	67	⊙	100WATT LIGHT
53	⊙	100WATT LIGHT	68	⊙	100WATT LIGHT
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57	⊙	100WATT LIGHT	72	⊙	100WATT LIGHT
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59	⊙	100WATT LIGHT	74	⊙	100WATT LIGHT
60	⊙	100WATT LIGHT	75	⊙	100WATT LIGHT
61	⊙	100WATT LIGHT	76	⊙	100WATT LIGHT
62	⊙	100WATT LIGHT	77	⊙	100WATT LIGHT
63	⊙	100WATT LIGHT	78	⊙	100WATT LIGHT
64	⊙	100WATT LIGHT	79	⊙	100WATT LIGHT
65	⊙	100WATT LIGHT	80	⊙	100WATT LIGHT
66	⊙	100WATT LIGHT	81	⊙	100WATT LIGHT
67	⊙	100WATT LIGHT	82	⊙	100WATT LIGHT
68	⊙	100WATT LIGHT	83	⊙	100WATT LIGHT
69	⊙	100WATT LIGHT	84	⊙	100WATT LIGHT
70	⊙	100WATT LIGHT	85	⊙	100WATT LIGHT
71	⊙	100WATT LIGHT	86	⊙	100WATT LIGHT
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74	⊙	100WATT LIGHT	89	⊙	100WATT LIGHT
75	⊙	100WATT LIGHT	90	⊙	100WATT LIGHT
76	⊙	100WATT LIGHT	91	⊙	100WATT LIGHT
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78	⊙	100WATT LIGHT	93	⊙	100WATT LIGHT
79	⊙	100WATT LIGHT	94	⊙	100WATT LIGHT
80	⊙	100WATT LIGHT	95	⊙	100WATT LIGHT
81	⊙	100WATT LIGHT	96	⊙	100WATT LIGHT
82	⊙	100WATT LIGHT	97	⊙	100WATT LIGHT
83	⊙	100WATT LIGHT	98	⊙	100WATT LIGHT
84	⊙	100WATT LIGHT	99	⊙	100WATT LIGHT
85	⊙	100WATT LIGHT	100	⊙	100WATT LIGHT

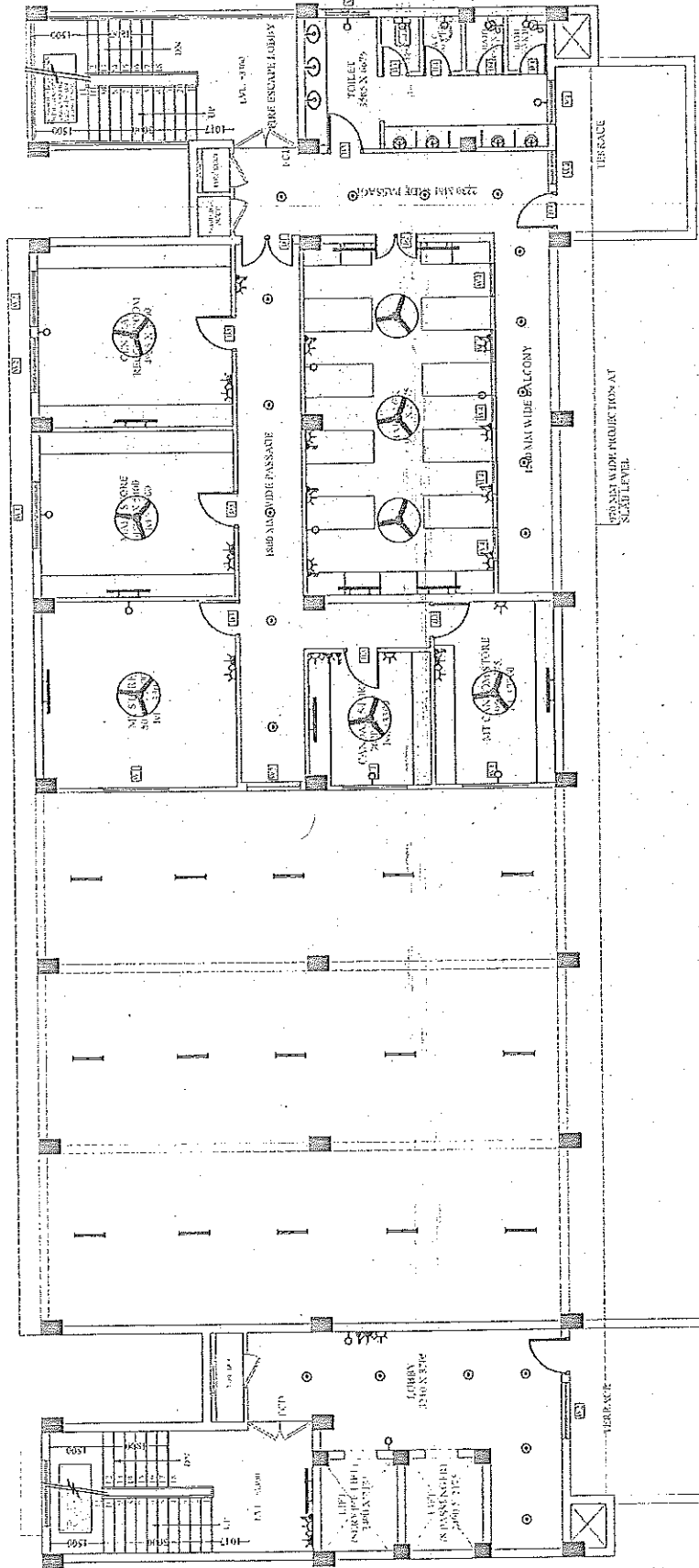


इकाई प्रकारी
सो १० पुलिस आवस निगम लि.
निगम इकाई, कागपुर।

सहायक अभियंता
उत्तर प्रदेश विद्युत निगम लि.
उत्तर प्रदेश विद्युत निगम लि.
निगम इकाई, कागपुर।

120

PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI DIST: FAIZABAD	AGENCY: U.P.P.A.N	CLIENT: U.P.P.A.N	DRG. TITLE: GROUND FLOOR ELECTRICAL PLAN	S. ENGINEER: J. ENGINEER: A.S.T. ENGINEER:	EXE. ENGINEER: J. ENGINEER: A.S.T. ENGINEER:	ARCHITECT: DATE: 23-Apr-26
	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURAL architects, engineers & interior designers ADDRESS: 24/3, VISHWAS NAGAR, GATE NO. 1, BANGALORE U.P. PIN-201001					



सहायक अभियन्ता
उत्तर प्रदेश पुलिस आवस निगम लि.
निर्मय इकाई-कानपुर

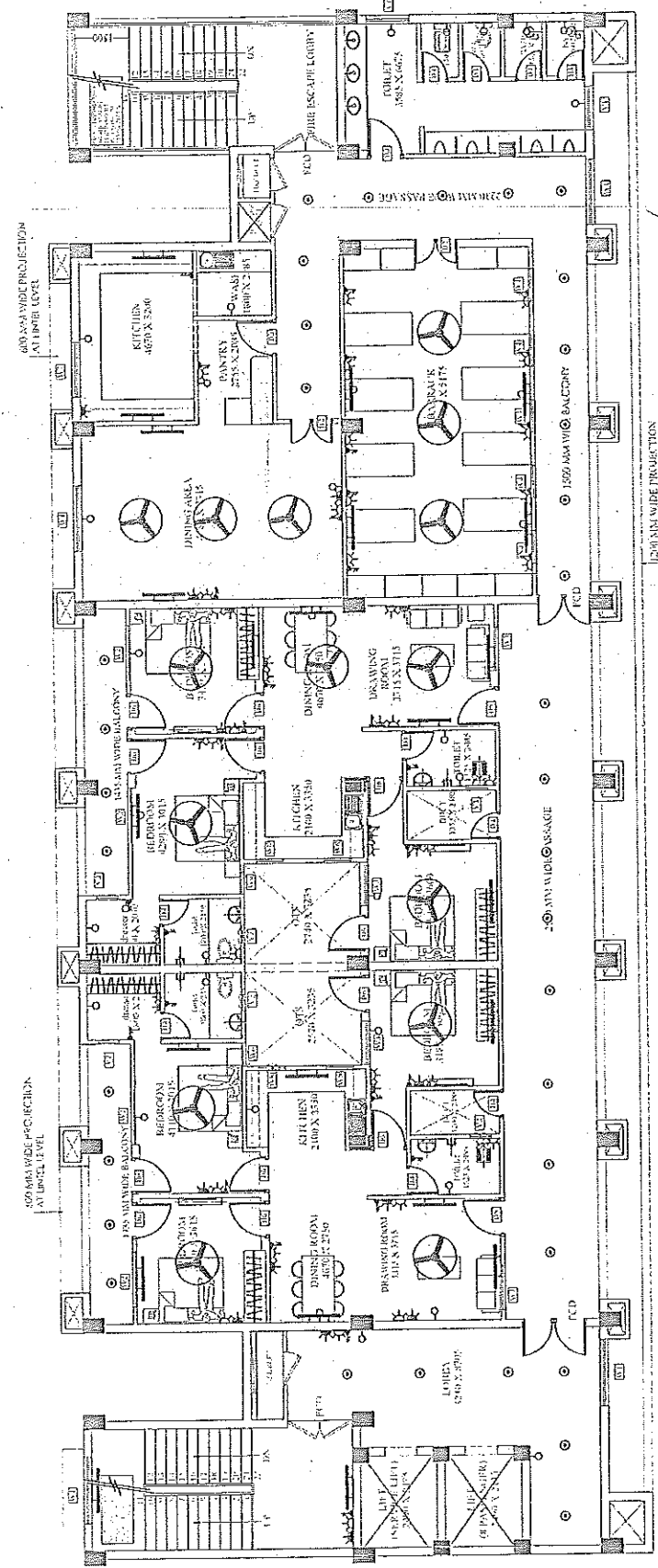
इकाई प्रभारी
उ० प्र० पुलिस आवस निगम लि.
निर्मय इकाई-कानपुर

ELECTRICAL DRAWING		
S.NO.	SYMBOL	DESCRIPTION
1		MODULAR CEILING FAN
2		EXHAUSTOR LIGHTING (1000MM LENGTH)
3		LED LIGHT FITTING (1000MM LENGTH)
4		1000MM WALL MOUNTED LIGHT HOLDER
5		1000MM WALL MOUNTED LED LIGHT FITTING (1000MM LENGTH)
6		LED 1222MM TUBE LIGHT SURFACE MOUNTED
7		EXHAUST FAN 220V
8		1X18 WATT LED LIGHT
9		EXHAUST FAN 220V
10		MODULAR TYPE FLEX SWITCH BOARD
11		MODULAR TYPE FLEX SWITCH BOARD
12		CEILING ROSE
13		MODULAR TYPE 1000MM SHROUDED
14		HEAVY DUTY AUDIO TYPE POWER SOCKET (10A AC)
15		CALL BELL & BELL
16		T.V. POINT
17		TELEPHONE POINT
18		SENSOR POINT
19		10 WATT BULK HEAD LIGHT
20		LIGHT POWER DIS
21		T.V. SPUTTER BOX
22		DOOR CATCH (2000MM)



PROJECT: PROPOSED FIRE STATION (12 UNITS) AT BINDKI -DISTT-FATEHPUR	AGENCY: U.P.P.A.N	CLIENT:	DRG. TITLE: FIRST FLOOR - ELECTRICAL PLAN	ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURE architects, engineers & interior designers
			NORTH: DRG. NO.: EL-01-02	ASST. ENGINEER: J. ENGINEER	DATE: 23-Apr-26	ADDRESS: 2/12, VISHWAS BHAW, GOVT. FLQAR, LUCKNOW Ph-913067141854, 7004230018

ELECTRICAL DRAWING		
S.NO.	SYMBOL	DESCRIPTION
1		100MM CEILING FAN
2		100MM CEILING FAN
3		100MM CEILING FAN
4		100MM CEILING FAN
5		100MM CEILING FAN
6		100MM CEILING FAN
7		100MM CEILING FAN
8		100MM CEILING FAN
9		100MM CEILING FAN
10		100MM CEILING FAN
11		100MM CEILING FAN
12		100MM CEILING FAN
13		100MM CEILING FAN
14		100MM CEILING FAN
15		100MM CEILING FAN
16		100MM CEILING FAN
17		100MM CEILING FAN
18		100MM CEILING FAN
19		100MM CEILING FAN
20		100MM CEILING FAN
21		100MM CEILING FAN
22		100MM CEILING FAN



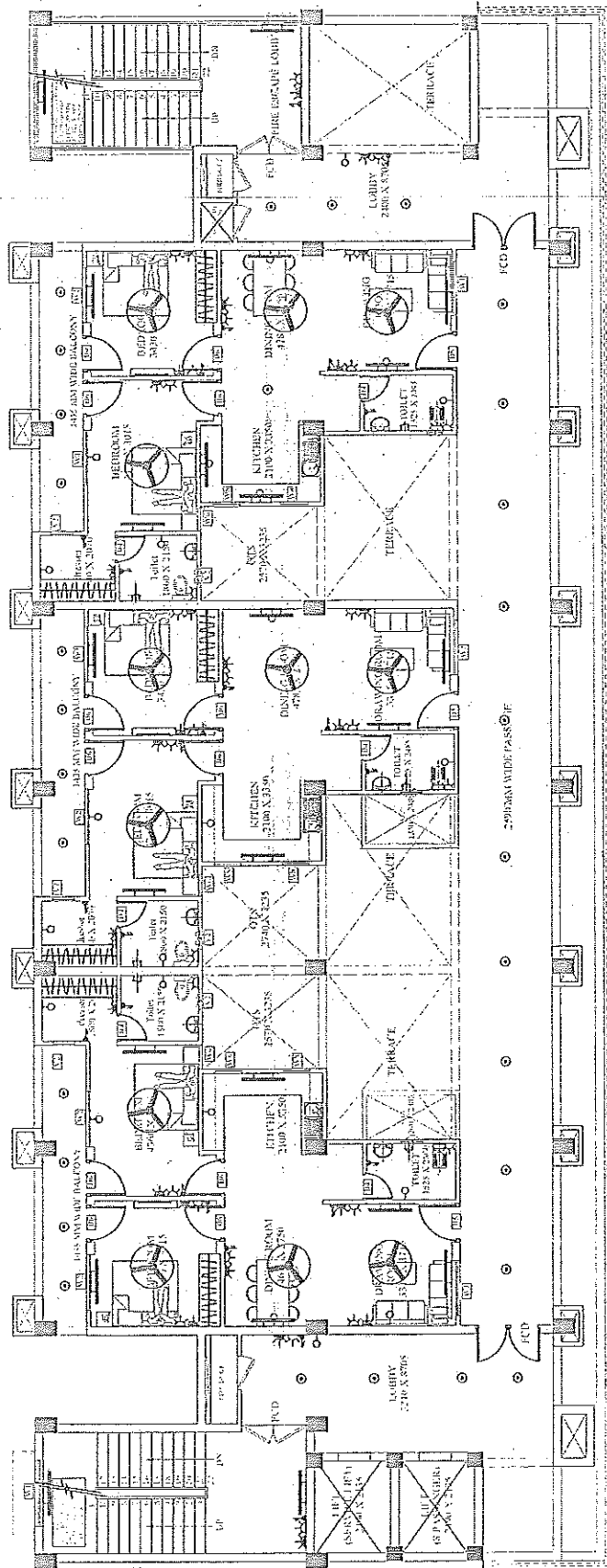
इकाई प्रमारी
30 प्रो प्रतिष्ठ आवास निगम लि.
सिद्धि इकाई, कागपुर।

सहायक अभियंता
प्रतिष्ठ आवास निगम लि.
सिद्धि इकाई-कागपुर।

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI DIST: FATEHPUR		AGENCY:	U.P.P.A.N		CLIENT:			DRG. TITLE:	SECOND FLOOR ELECTRICAL PLAN		S. ENGINEER:	ARCHITECT:		EXEC. ENGINEER:	J. ENGINEER		DATE:	23-Apr-26	

ARCHITECT CONSULTANT:
A&D CONSTRUCTION ARCHITECTURAL
architects engineers & interior designers
ADDRESS-2024, VISHWAS KHATO, FORTBANGAR,
LUCKNOW PH-0 4303 174 154, 7506423003

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संलग्नक अभिलेखित
उत्तर मूल प्रमाण अनुसार निर्माण सिद्ध
निर्माण ईकाई-अप्रैल २०१५

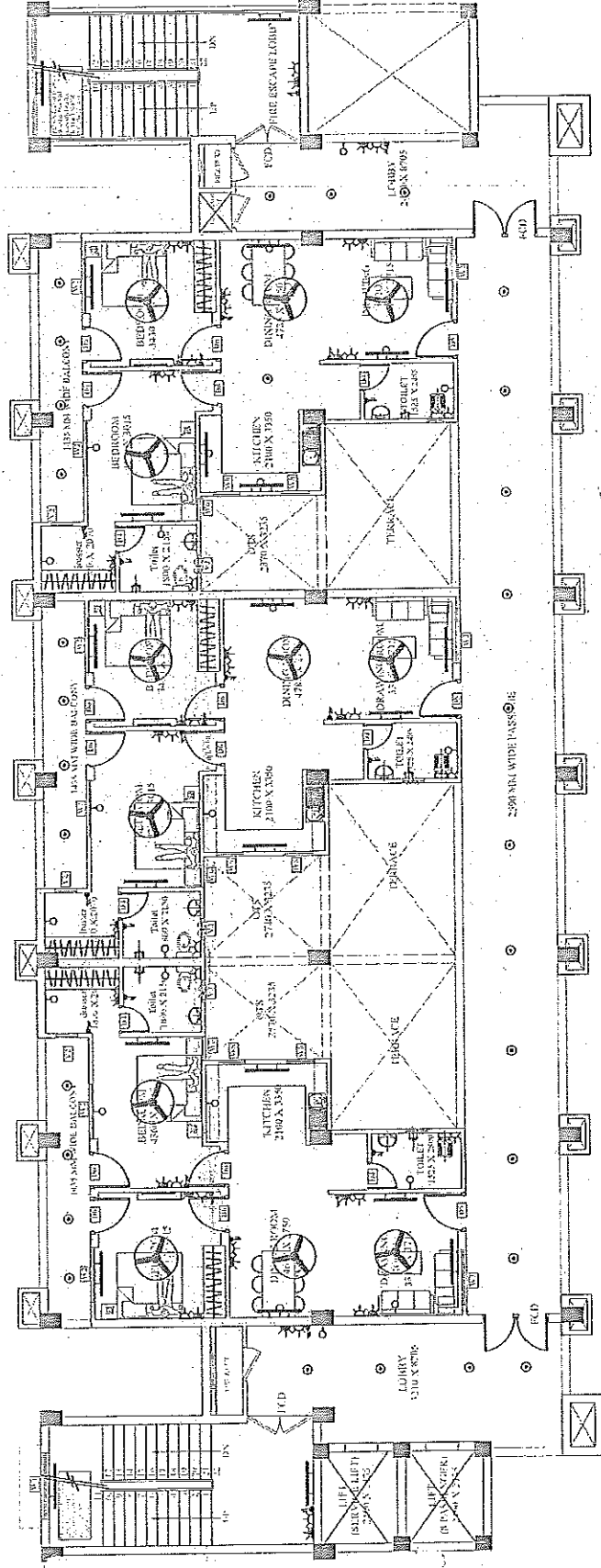
इकाई प्रो. वि.
२००० प्रमाण अनुसार निर्माण सिद्ध
निर्माण ईकाई-अप्रैल २०१५

ELECTRICAL DRAWING		
NO.	SYMBOL	DESCRIPTION
1		1200MM CEILING FAN
2		1200MM LED LIGHT FIXTURE
3		1800MM LED LIGHT FIXTURE
4		1800MM LED LIGHT FIXTURE
5		1800MM LED LIGHT FIXTURE
6		1800MM LED LIGHT FIXTURE
7		1800MM LED LIGHT FIXTURE
8		1800MM LED LIGHT FIXTURE
9		1800MM LED LIGHT FIXTURE
10		1800MM LED LIGHT FIXTURE
11		1800MM LED LIGHT FIXTURE
12		1800MM LED LIGHT FIXTURE
13		1800MM LED LIGHT FIXTURE
14		1800MM LED LIGHT FIXTURE
15		1800MM LED LIGHT FIXTURE
16		1800MM LED LIGHT FIXTURE
17		1800MM LED LIGHT FIXTURE
18		1800MM LED LIGHT FIXTURE
19		1800MM LED LIGHT FIXTURE
20		1800MM LED LIGHT FIXTURE
21		1800MM LED LIGHT FIXTURE
22		1800MM LED LIGHT FIXTURE

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINKI DISTT: FATEHPUR		AGENCY:		CLIENT:		DRG. TITLE: THIRD FLOOR ELECTRICAL PLAN		S. ENGINEER:		ARCHITECT:		ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURAL architects, engineers & interior designers		
					U.P.P.A.N		NORTH:		ASTT. ENGINEER:		J. ENGINEER:		DATE:		
								DRG. NO.:						23-Apr-26	
								AR-01-04							

ELECTRICAL DRAWING

NO.	SYMBOL	DESCRIPTION
1		1200MM CEILING FAN
2		1200MM CEILING FAN
3		100W WALL MOUNTED LIGHT
4		10W MIRROR LED LIGHT
5		1000MM LENGTH TUBE LIGHT
6		100W WALL MOUNTED LIGHT
7		100W WALL MOUNTED LIGHT
8		100W WALL MOUNTED LIGHT
9		100W WALL MOUNTED LIGHT
10		100W WALL MOUNTED LIGHT
11		100W WALL MOUNTED LIGHT
12		100W WALL MOUNTED LIGHT
13		100W WALL MOUNTED LIGHT
14		100W WALL MOUNTED LIGHT
15		100W WALL MOUNTED LIGHT
16		100W WALL MOUNTED LIGHT
17		100W WALL MOUNTED LIGHT
18		100W WALL MOUNTED LIGHT
19		100W WALL MOUNTED LIGHT
20		100W WALL MOUNTED LIGHT
21		100W WALL MOUNTED LIGHT
22		100W WALL MOUNTED LIGHT



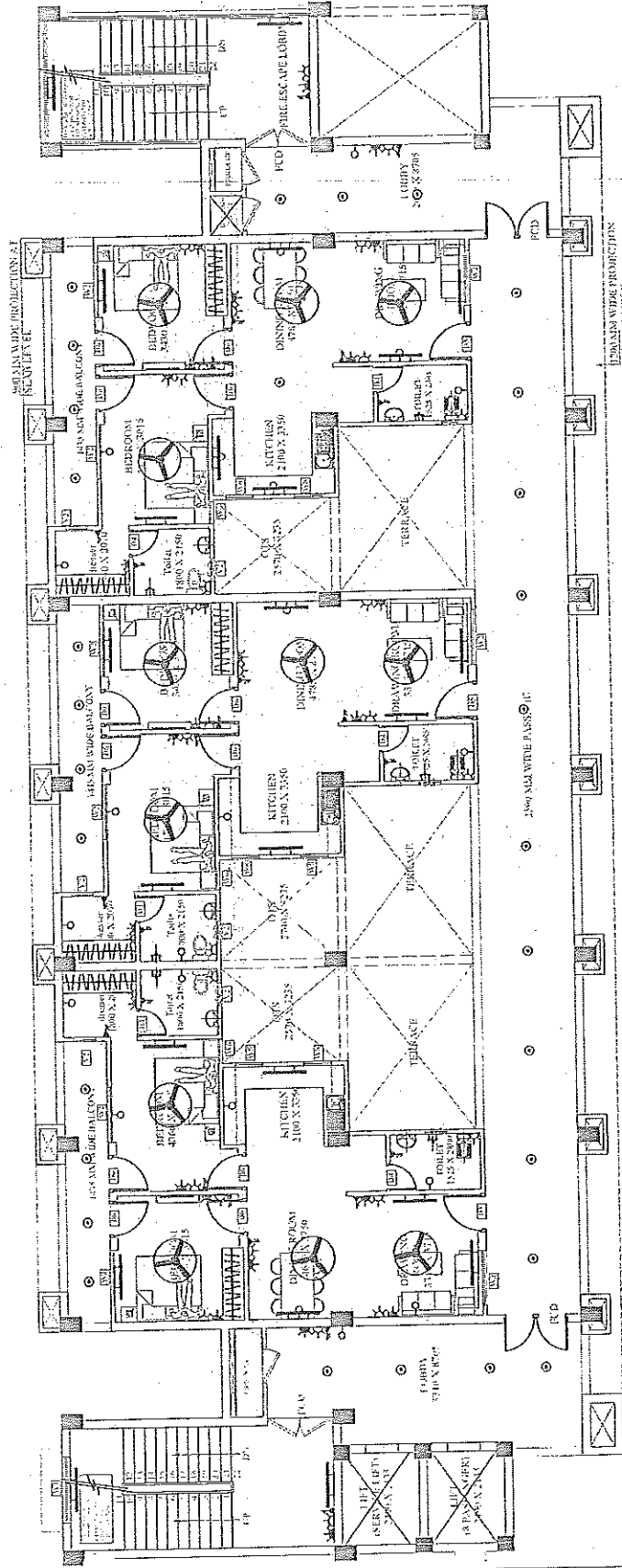
इकाई प्रमोरी
वडा. ३०० पुलिच आवास निगम विधि
निर्माण इकाई: कम्प्युटर

सहायक अभियन्ता
सुपर प्रोडक्शन्स निगम लिमिटेड
निर्माण इकाई-कम्प्युटर १

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDUJ DISTT: FATEHPUR	AGENCY:	U.P.P.A.N	CLIENT:		DRG. TITLE:	FOURTH & FIFTH FLOOR ELECTRICAL PLAN	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTS architects, engineers & interior designers
						NORTH:	DRG. NO.: AR-01-05	ASST. ENGINEER:	J. ENGINEER	DATE:	23-Apr-26

ADDRESS: 202A, VISHWAS KHAND, GOKINAGAR,
LUCKNOW PH: -81-8031721454, 7906123063

ELECTRICAL LEGEND		
SL. NO.	SYMBOL	DESCRIPTION
1		1200MM CEILING FAN
2		LED LIGHT FITTING
3		10W WALL MOUNTED BATTERY HOLDER
4		10V INDUCTOR LED LIGHT FITTING
5		LED 122W TUBE LIGHT
6		EXHAUST FAN
7		1x10 WALL LED LIGHT
8		EXHAUST FAN
9		MODULAR TYPE FLUSH SWITCH BOARD
10		MODULAR TYPE FLUSH SWITCH BOARD
11		CEILING ROSE
12		MODULAR TYPE FLUSH SWITCH BOARD
13		MODULAR TYPE FLUSH SWITCH BOARD
14		HEAVY DUTY MODULAR TYPE POWER SOCKET
15		CALL BELL & BUZZER
16		TV POINT
17		TELEPHONE POINT
18		CROSSOVER POINT
19		10 WATT BULB
20		LIGHT POWER DISTRIBUTION BOX
21		TV SPLITTER BOX
22		CONSULTANT'S SIGNATURE

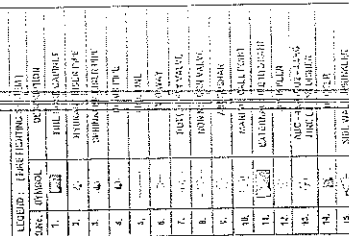


इसका प्रतीक
इसके अन्तर्गत
इसके अन्तर्गत
इसके अन्तर्गत

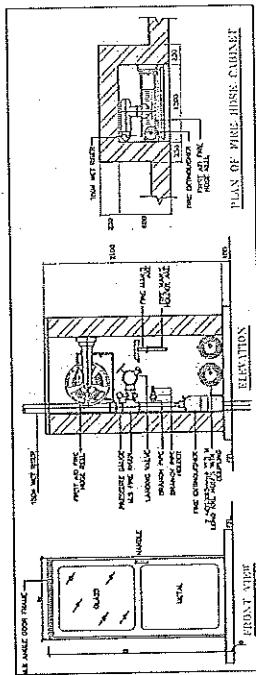
संकेतित अधिकारी
संकेतित अधिकारी
संकेतित अधिकारी
संकेतित अधिकारी

ARCHITECT CONSULTANT:
A&D CONSTRUCTION ARCHITECTURE
- architects,engineers & interior designers
ADDRESS: 2071, VISHWAS VIHAR, GHAZIABAD
LUCKNOW PH: -91-8067141864, 7003423003

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE:	ENGINEER:	ARCHITECT:
PROPOSED FIRE STATION (2 UNITS) AT BINDKI ..DISTT:-FAIZABAD	U.P.P.A.N		SIXTH FLOOR ELECTRICAL PLAN		
			NORTH:	ASSIST. ENGINEER:	DATE:
			DRG. NO.:	ENGINEER:	23-Apr-26
			AR-01-06		



२
श्रीमान् प्र
द्वारा ई
मुद्रित
३०



सहायक अनियन्ता
अदेश मुनिस आवास निगम लिमिटेड
विपनिण रुकाई-कांगपुर ।

ARCHITECT CONSULTANT
A&D CONSTRUCTION ARCHITECTURAL
architects, engineers & interior designers

MEP Consultant :- **Aim Design & Consultants**

ARCHITECT:	
DATE:	26-04-2026

EXE. ENGINEER	J. ENGINEER
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S. ENGINEER:

AST. ENGINEER:

DRG. NO.:
FF-01-02

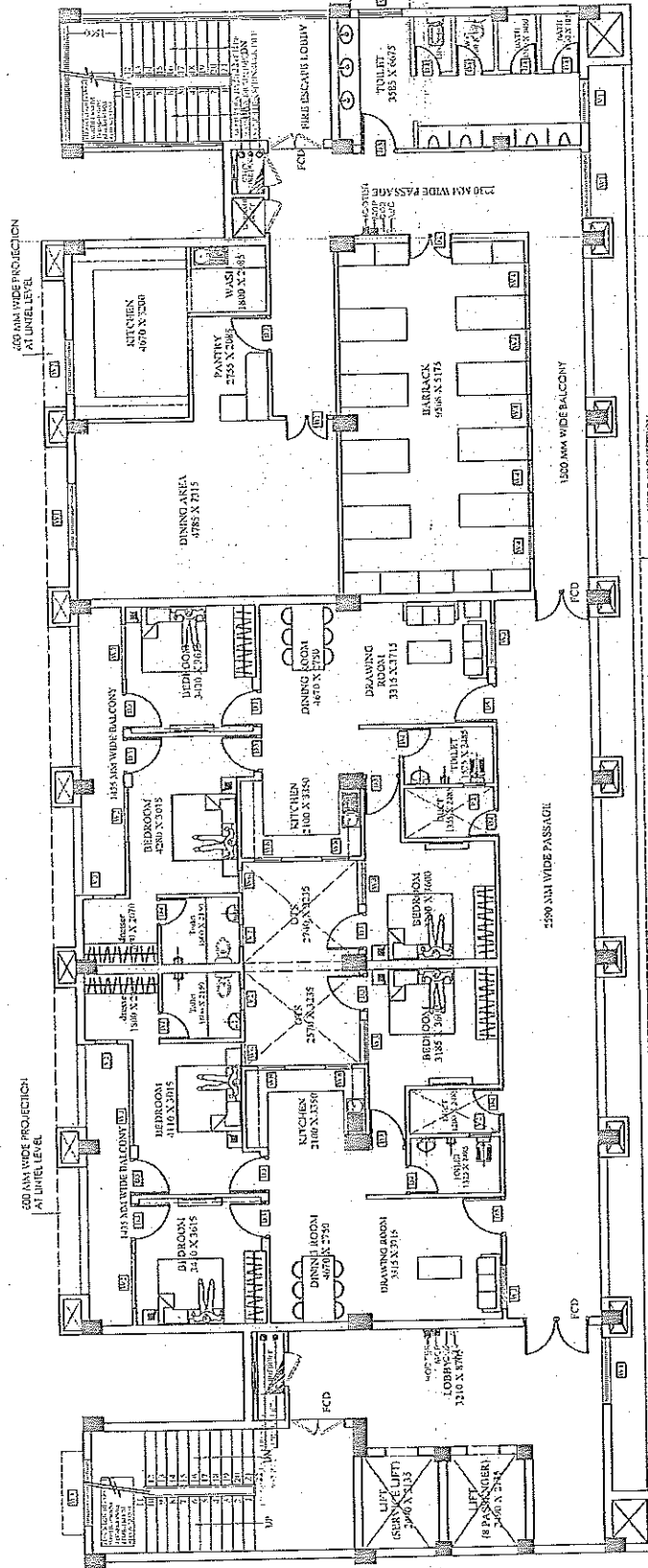
DRG. TITLE:	FIRST:	NORTH:
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AGENCY:	CLIN
OFFICE:	P.F.A.N

AC	U
ATION IDKI PUR	

JECT:
PROPOSED FIRE
(2 UNITS) AT 11
..DISTT:FATTE

ADDRESS: 0124, VISHWAS NHAND, GOLIING,
LUCKNOW PH. +91-8011741454, 750642500P

[illegible]

ARCHITECT CONSULTANTS
A&D CONSTRUCT
architects, engineers &
planners
ADDRESS: 2014 VILSHAW ROAD
LUCKNOW Ph. +91-800177-1111

EP Consultants :-

aim Design & Consultants

Design, Consultant & Engineers,
Office: D3/26, Vibhuti Khand
Gomti Nagar, Lucknow-226010
Mob. +91-9915003078

ARCHITECT: DATE: 26-04-2026

EXE. ENGINEER

J. ENGINEER

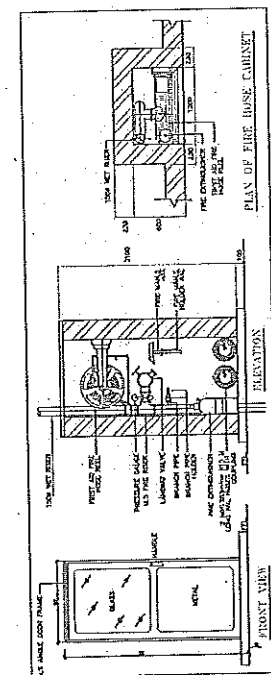
ENGINEER:
STT.ENGINEER:

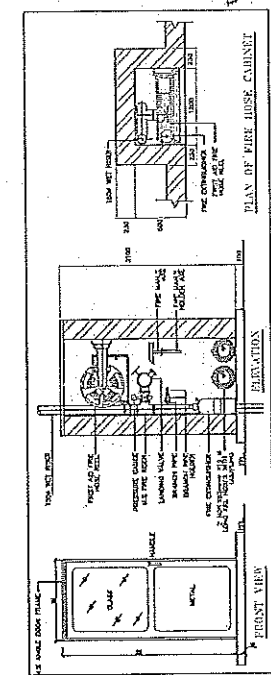
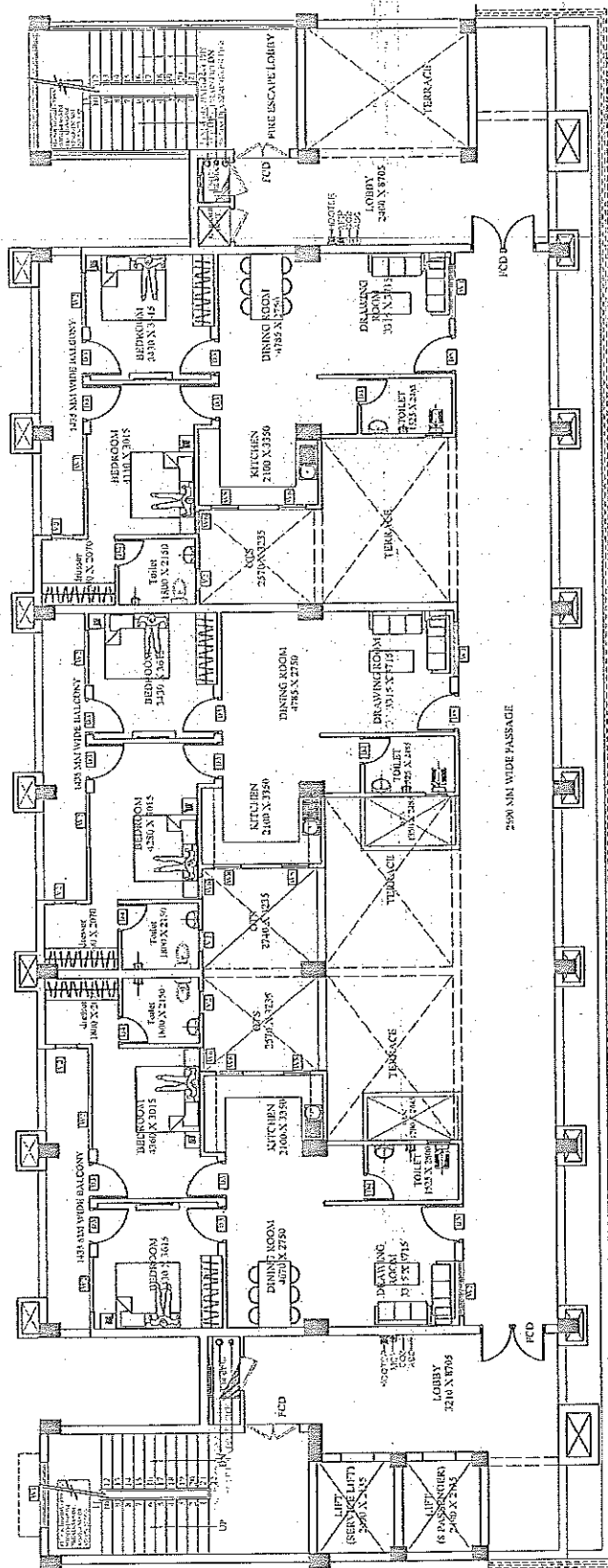
COOR PLAN-
RG. NO.:
FF-01-03

DRG. TITLE	SECOND	NORTH:
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CLIE	
Y:	P.A.N

संसाधक अभियन्ता
विशेष प्रदेश पुलिस आवास निगम लि०
पल्लार प्रकाश-कानपुर ।

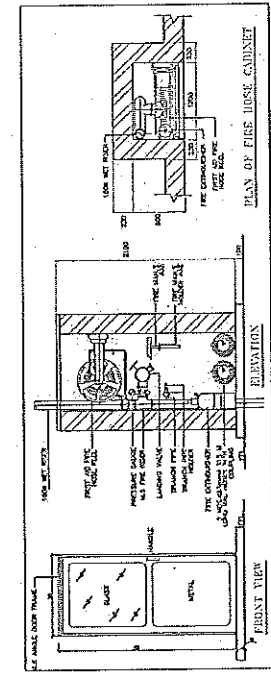
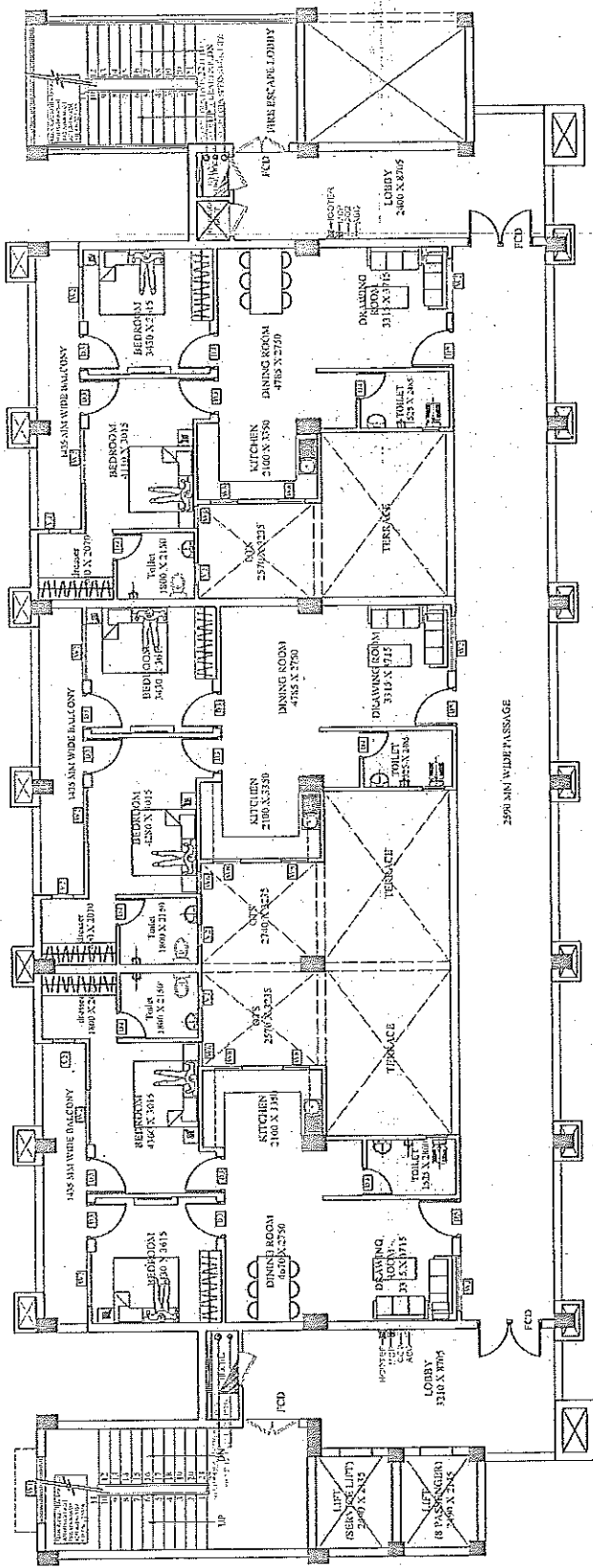




NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	CEILING	1	SQ. M.	
2	FLOOR	1	SQ. M.	
3	WALL	1	SQ. M.	
4	DOOR	1	NO.	
5	WINDOW	1	NO.	
6	STAIR	1	NO.	
7	TOILET	1	NO.	
8	BATH	1	NO.	
9	KITCHEN	1	NO.	
10	DINING	1	NO.	
11	LIVING	1	NO.	
12	BEDROOM	1	NO.	
13	TERACE	1	NO.	
14	STAIR	1	NO.	
15	TOILET	1	NO.	
16	BATH	1	NO.	
17	KITCHEN	1	NO.	
18	DINING	1	NO.	
19	LIVING	1	NO.	
20	BEDROOM	1	NO.	
21	TERACE	1	NO.	
22	STAIR	1	NO.	
23	TOILET	1	NO.	
24	BATH	1	NO.	
25	KITCHEN	1	NO.	
26	DINING	1	NO.	
27	LIVING	1	NO.	
28	BEDROOM	1	NO.	
29	TERACE	1	NO.	
30	STAIR	1	NO.	
31	TOILET	1	NO.	
32	BATH	1	NO.	
33	KITCHEN	1	NO.	
34	DINING	1	NO.	
35	LIVING	1	NO.	
36	BEDROOM	1	NO.	
37	TERACE	1	NO.	
38	STAIR	1	NO.	
39	TOILET	1	NO.	
40	BATH	1	NO.	
41	KITCHEN	1	NO.	
42	DINING	1	NO.	
43	LIVING	1	NO.	
44	BEDROOM	1	NO.	
45	TERACE	1	NO.	
46	STAIR	1	NO.	
47	TOILET	1	NO.	
48	BATH	1	NO.	
49	KITCHEN	1	NO.	
50	DINING	1	NO.	
51	LIVING	1	NO.	
52	BEDROOM	1	NO.	
53	TERACE	1	NO.	
54	STAIR	1	NO.	
55	TOILET	1	NO.	
56	BATH	1	NO.	
57	KITCHEN	1	NO.	
58	DINING	1	NO.	
59	LIVING	1	NO.	
60	BEDROOM	1	NO.	
61	TERACE	1	NO.	
62	STAIR	1	NO.	
63	TOILET	1	NO.	
64	BATH	1	NO.	
65	KITCHEN	1	NO.	
66	DINING	1	NO.	
67	LIVING	1	NO.	
68	BEDROOM	1	NO.	
69	TERACE	1	NO.	
70	STAIR	1	NO.	
71	TOILET	1	NO.	
72	BATH	1	NO.	
73	KITCHEN	1	NO.	
74	DINING	1	NO.	
75	LIVING	1	NO.	
76	BEDROOM	1	NO.	
77	TERACE	1	NO.	
78	STAIR	1	NO.	
79	TOILET	1	NO.	
80	BATH	1	NO.	
81	KITCHEN	1	NO.	
82	DINING	1	NO.	
83	LIVING	1	NO.	
84	BEDROOM	1	NO.	
85	TERACE	1	NO.	
86	STAIR	1	NO.	
87	TOILET	1	NO.	
88	BATH	1	NO.	
89	KITCHEN	1	NO.	
90	DINING	1	NO.	
91	LIVING	1	NO.	
92	BEDROOM	1	NO.	
93	TERACE	1	NO.	
94	STAIR	1	NO.	
95	TOILET	1	NO.	
96	BATH	1	NO.	
97	KITCHEN	1	NO.	
98	DINING	1	NO.	
99	LIVING	1	NO.	
100	BEDROOM	1	NO.	

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PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDNI .DISTT: FATEHPUR	AGENCY: U.P.P.A.N	CLIENT:	DRG. TITLE: THIRD FLOOR PLAN	ENGINEER:	EXE. ENGINEER:	ARCHITECT:	MEP Consultant:	aim. Design & Consultants Design, Consultant & Engineers, Office D3/25, Vibhuti Khand, Conna Nagar, Lucknow-226010 Mob.: +91-9915003078	ARCHITECT CONSULTANTS: A&D CONSTRUCTION ARCHITECTURAL architects engineers & interior designers ADDRESS: 2/14, VISHWANATH, CO-OP. HSG. SOCIETY LUCKNOW PH. +91-803741954, 750612009
								DATE: 26-04-2026	



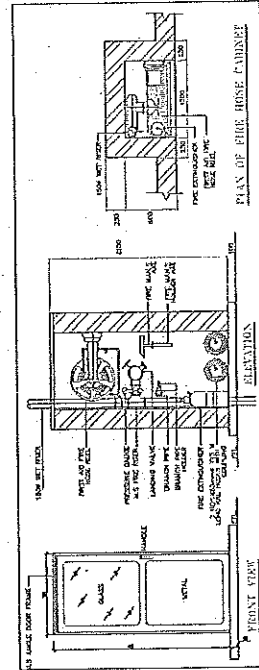
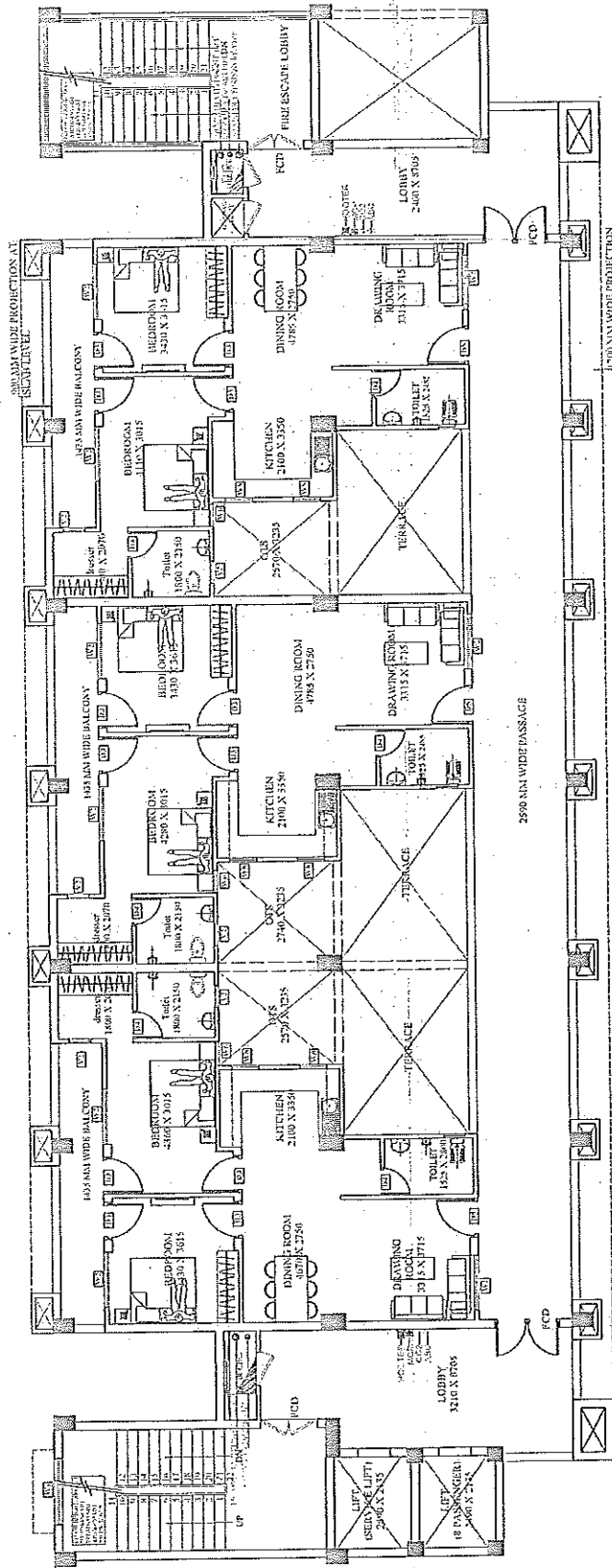
NO.	DESCRIPTION	QTY	UNIT	REMARKS
1.	CEILING LIGHTING	24	NO.	
2.	WALL LIGHTING	12	NO.	
3.	WALL LIGHTING	12	NO.	
4.	WALL LIGHTING	12	NO.	
5.	WALL LIGHTING	12	NO.	
6.	WALL LIGHTING	12	NO.	
7.	WALL LIGHTING	12	NO.	
8.	WALL LIGHTING	12	NO.	
9.	WALL LIGHTING	12	NO.	
10.	WALL LIGHTING	12	NO.	
11.	WALL LIGHTING	12	NO.	
12.	WALL LIGHTING	12	NO.	
13.	WALL LIGHTING	12	NO.	
14.	WALL LIGHTING	12	NO.	
15.	WALL LIGHTING	12	NO.	

संशोधन विभाग
उत्तर प्रदेश विधानसभा
लखनऊ-226010

संशोधन विभाग
उत्तर प्रदेश विधानसभा
लखनऊ-226010

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI DIST: PATCHPUR	AGENCY:	U.P.P.A.N	CLIENT:		DRG. TITLE:	FOURTH & FIFTH FLOOR PLAN	S. ENGINEER:		EXE. ENGINEER:		ARCHITECT:		MFP Consultant:	atm Design & Consultants Design, Consultant & Engineers, Office: D3/26, Vibhuti Khond Gand Nagar, Lucknow-226010 Mob.: +91-9915003078	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURAL architects, engineers & interior designers ADDRESS: 27/24, VISHWAKSAR, CONTINGENT LUCKNOW PH: +91-3081741451, 730612308
						NORTH:		DRG. NO.:	FF-01-05	J. ENGINEER:		DATE:	26-04-2026			

130

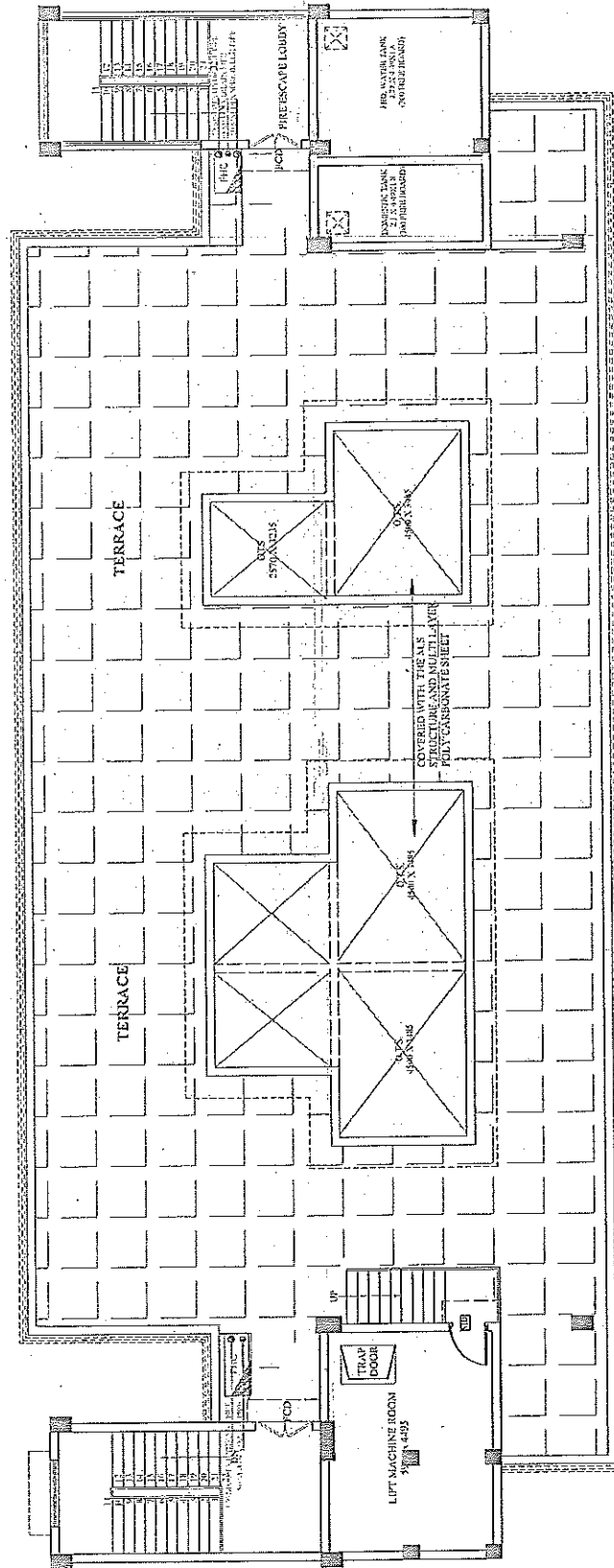


LEGEND	SYMBOL	DESCRIPTION
1	[Symbol]	DOOR
2	[Symbol]	WINDOW
3	[Symbol]	STAIR
4	[Symbol]	TOILET
5	[Symbol]	KITCHEN
6	[Symbol]	DINING ROOM
7	[Symbol]	DRAWING ROOM
8	[Symbol]	BED ROOM
9	[Symbol]	TERRACE
10	[Symbol]	LOBBY
11	[Symbol]	STAIR
12	[Symbol]	TOILET
13	[Symbol]	KITCHEN
14	[Symbol]	DINING ROOM
15	[Symbol]	DRAWING ROOM
16	[Symbol]	BED ROOM
17	[Symbol]	TERRACE
18	[Symbol]	LOBBY
19	[Symbol]	STAIR
20	[Symbol]	TOILET
21	[Symbol]	KITCHEN
22	[Symbol]	DINING ROOM
23	[Symbol]	DRAWING ROOM
24	[Symbol]	BED ROOM
25	[Symbol]	TERRACE
26	[Symbol]	LOBBY
27	[Symbol]	STAIR
28	[Symbol]	TOILET
29	[Symbol]	KITCHEN
30	[Symbol]	DINING ROOM
31	[Symbol]	DRAWING ROOM
32	[Symbol]	BED ROOM
33	[Symbol]	TERRACE
34	[Symbol]	LOBBY
35	[Symbol]	STAIR
36	[Symbol]	TOILET
37	[Symbol]	KITCHEN
38	[Symbol]	DINING ROOM
39	[Symbol]	DRAWING ROOM
40	[Symbol]	BED ROOM
41	[Symbol]	TERRACE
42	[Symbol]	LOBBY
43	[Symbol]	STAIR
44	[Symbol]	TOILET
45	[Symbol]	KITCHEN
46	[Symbol]	DINING ROOM
47	[Symbol]	DRAWING ROOM
48	[Symbol]	BED ROOM
49	[Symbol]	TERRACE
50	[Symbol]	LOBBY

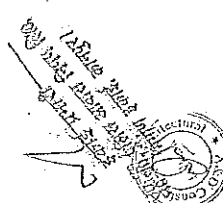
131

संकेत प्रयोग
इसके अन्तर्गत प्रयोग
होने वाले प्रतीक
निम्न प्रकार-
संकेत प्रयोग
इसके अन्तर्गत प्रयोग
होने वाले प्रतीक
निम्न प्रकार-

PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINKI DIST: FATEHPUR	AGENCY:	U.P.P.A.N	CLIENT:		DRG. TITLE:	SIXTH FLOOR PLAN	ENGINEER:		EXEC. ENGINEER:		ARCHITECT:		MEP Consultant:						
DESIGN, CONSULTANT & ENGINEERS, Office: D3/26, Vibhuti Khand, Gurgaon Nagar, Lucknow-226010 Mob: +91-9915003075			A&D CONSTRUCTION ARCHITECTS architects, engineers & interior designers ADDRESS: 202A, VISHWAS ROAD, COIMBATORE LUCKNOW PH: +91-5081741454, 7086123001			DATE: 26-04-2026			NORTH: FF-01-06			DRG. NO.:			ASTT. ENGINEER:			J. ENGINEER:		

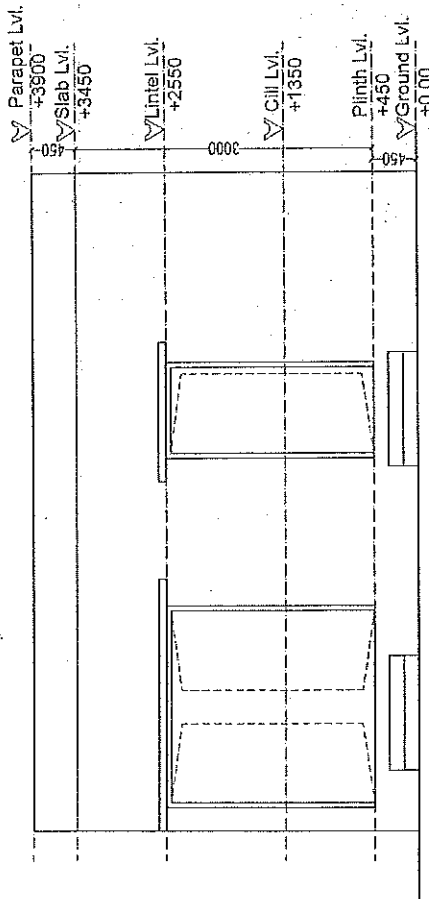


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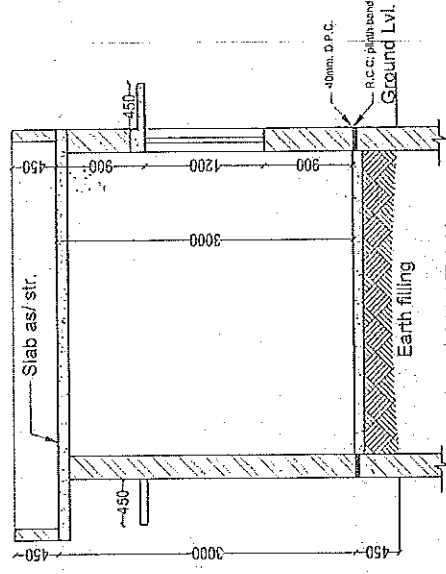


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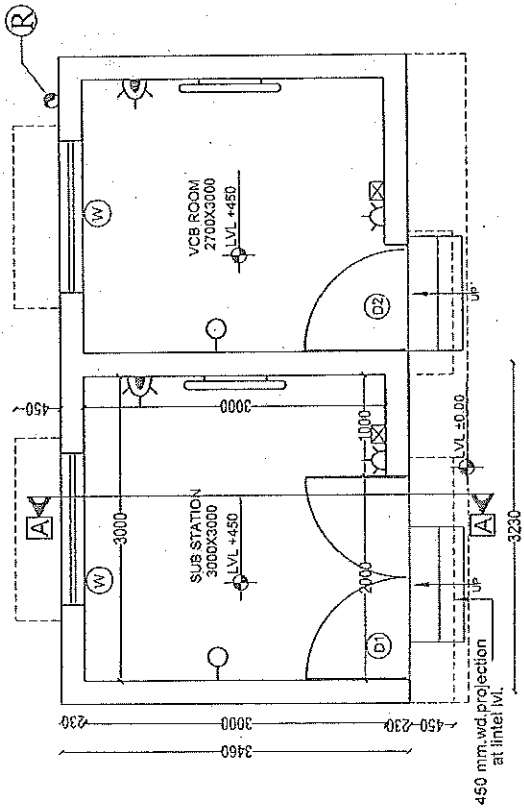
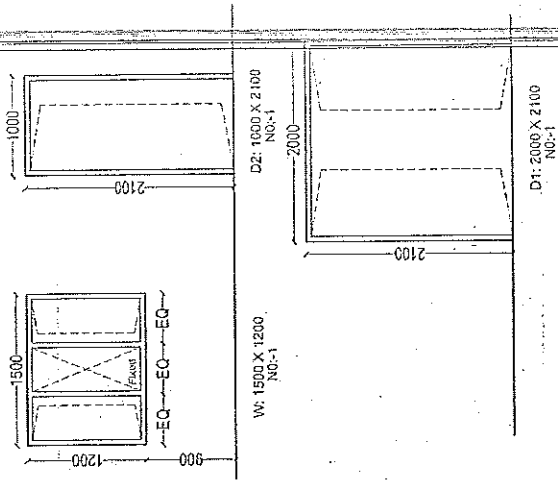
PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI DISTRICT: FAIZABAD	AGENCY: U.P.P.A.N	CUSTOMER: U.P.P.A.N	DRG. TITLE: TERRACE FLOOR PLAN	ENGINEER: S. ENGINEER	EXEC. ENGINEER: J. ENGINEER	DATE: 26-04-2026
	ARCHITECT: aim Design & Consultants	DATE: 26-04-2026	DRG. NO.: FF-01-07	ASTT. ENGINEER: J. ENGINEER	DATE: 26-04-2026	
ARCHITECT CONSULTANT: aim Design & Consultants Design, Consultant & Engineers, Office: D0/26, Vibhuti Khand, Gomti Nagar, Lucknow-226010 Mob.: +91-591-5003078						
ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURAL architects, engineers & interior designers ADDRESS: 2/12, VISHWAS NAGAR, GOMTI NAGAR, LUCKNOW Ph: +91-5081741494, 7506423005						



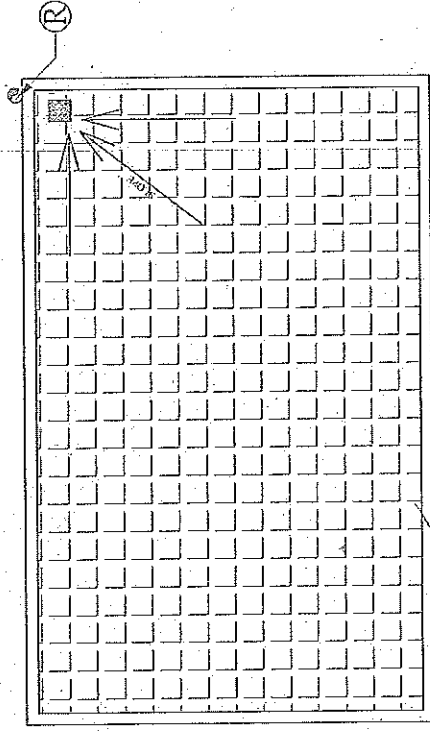
FRONT ELEVATION



SECTION AT AA'



GROUND FLOOR PLAN



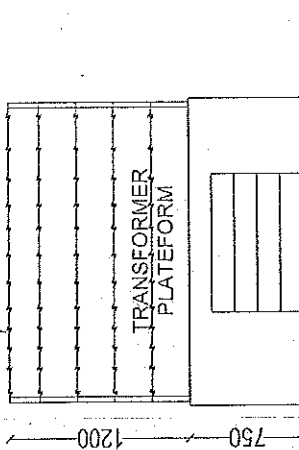
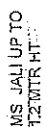
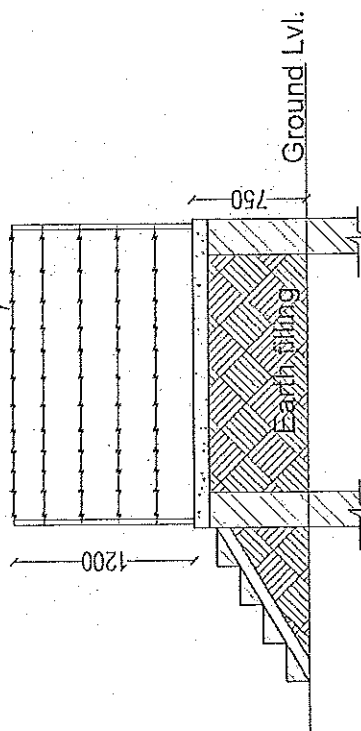
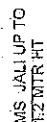
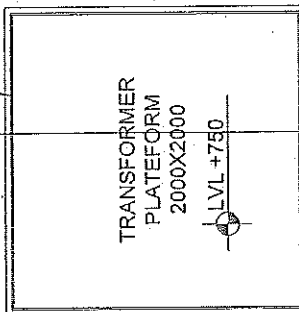
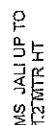
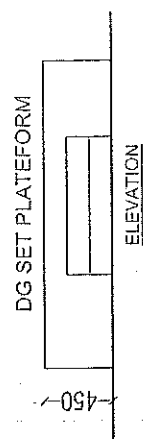
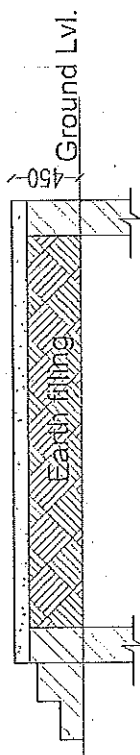
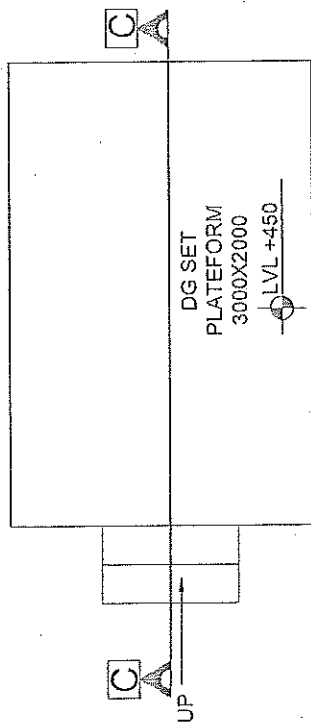
TERRACE PLAN

DOOR WINDOW DETAIL



136
A&D CONSTRUCTION ARCHITECTURE
architects,engineers & interior designers
15/15/15, 15/15/15, 15/15/15
15/15/15, 15/15/15, 15/15/15

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE: SUB STATION & VCB ROOM (WORKING DRAWING DETAIL)	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:
				ASTT. ENGINEER:	J. ENGINEER	DATE:
				NORTH:	DRG. NO.: AR-10	May -25
PROPOSED FIRE STATION (2 UNITS) AT BINDKI - DIST:-FAHLEPUR	U.P.P.A.N					
A&D CONSTRUCTION ARCHITECTURE architects,engineers & interior designers						
ADDRESS: 27/15, VISHWAS ROAD, GOMTI NAGAR, LUCKNOW PIN-226001/4/INDIA						

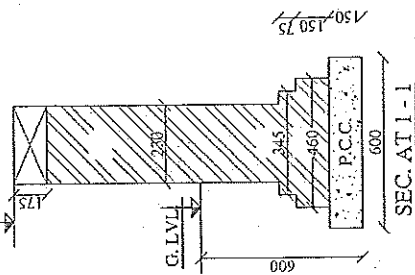
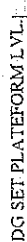
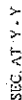
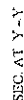
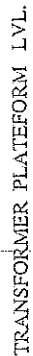
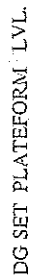
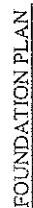


SECTION AT BB'

सहायक अधीक्षक
महाराष्ट्र शासन, शिक्षा, मुंबई
मुंबई, महाराष्ट्र ४०० ००४

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PROJECT :	AGENCY :	CLIENT :	DRG. TITLE: DG SET & TRANSFORM PLTEFORM (WORKING DRAWING DETAIL)	S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:	A&D CONSTRUCTION ARCHITECTURAL architects,engineers & interior designers
				DRG. NO.: AR-10	ASST. ENGINEER:	J.ENGINEER	
PROPOSED FIRE STATION (2 UNITS AT BINDJI) DIST:FATEHPUR		U.P.P.A.N.				ADDRESS-2124, ASHRAAS KHAND, GOUTINAGAR, LUCKNOW Ph.-901-9051741554	



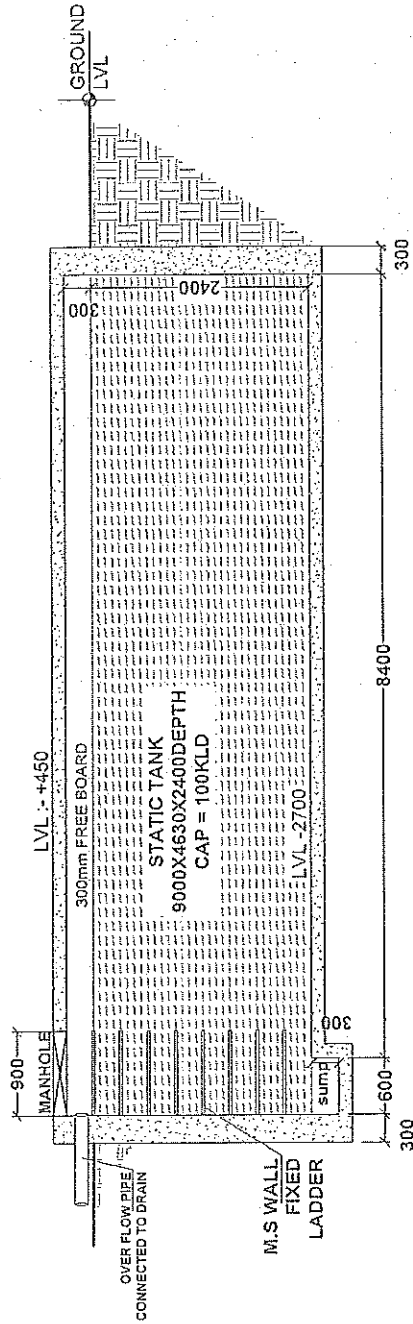
SEC. AT1-1

राष्ट्रपति आचार्य निगम लि०
पुणे प्रतिष्ठान आचार्य निगम लि०
उत्तर विभाग इलाहाबाद

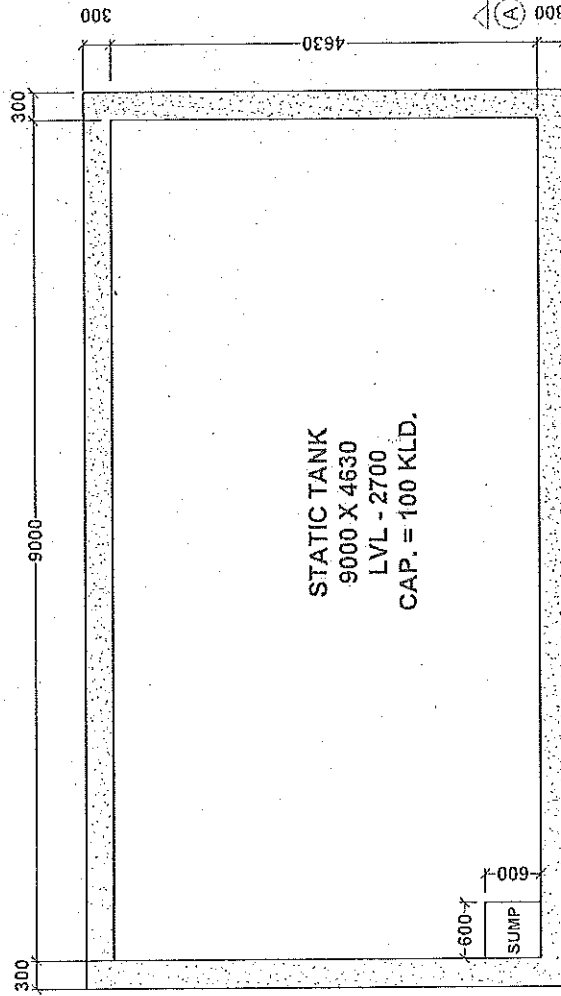


पुणे जिल्हा न्यायालय
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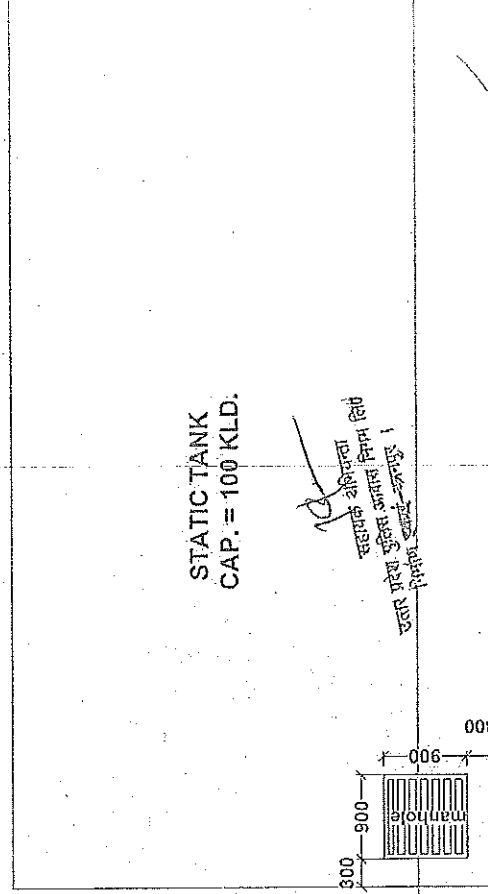
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SECTION AT A-A'



PLAN (AT LVL : -2700)



PLAN AT TOP LVL

PROJECT:
PROPOSED FIRE STATION
(2 UNITS) AT BINDKI
DISTT: FATEHPUR

AGENCY:
U.P.P.A.N

CLIENT:

DRG. TITLE:
UG TANK- 100KLD

NORTH:
DRG. NO.:
AR-10

S. ENGINEER:

ASST. ENGINEER:

EXE. ENGINEER:

JENGINEER

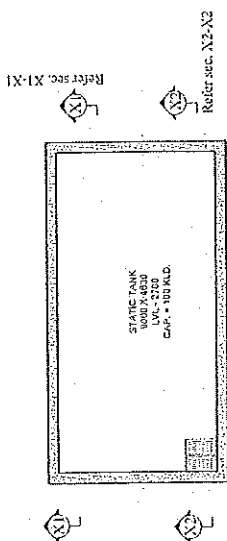
ARCHITECT:

DATE:
JUL 23



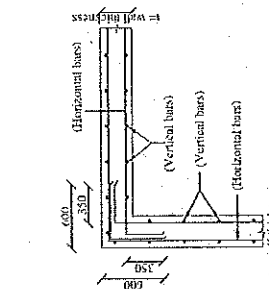
140

DR. S. S. SINGH ARCHITECTURAL
CONSULTANTS & ENGINEERS
ADDRESS: 10/2A, NEHRU NAGAR
JODHPUR, RAJASTHAN
PH: 91-9817141154

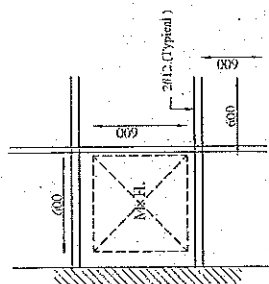


FOUNDATION PLAN

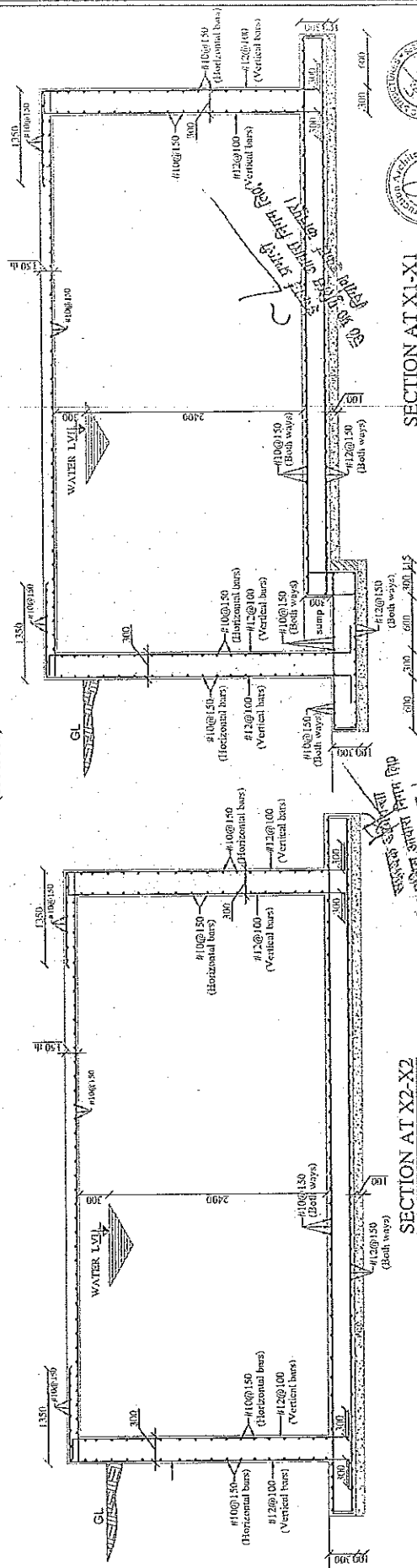
DETAIL OF TOP SLAB OF U.G. TANK & SLAB



DETAIL OF CORNER OF TANK WALL



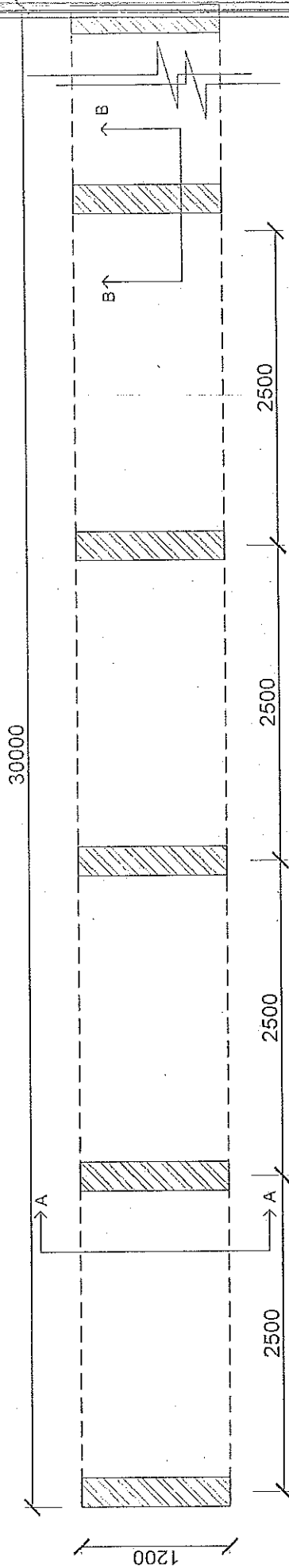
TTYP, DETAILS OF MANHOLE



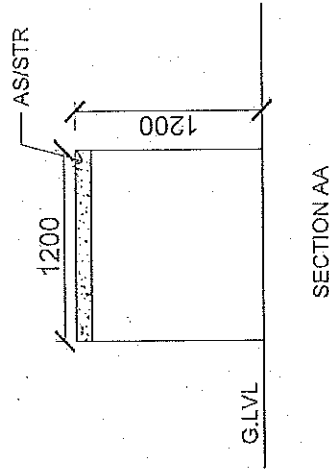
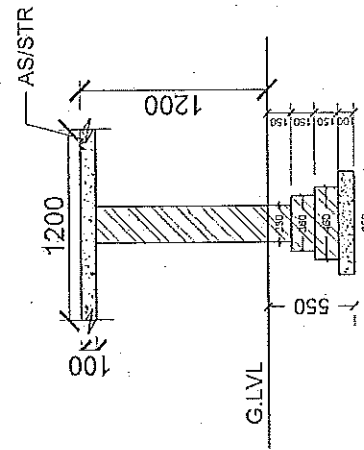
SECTION AT X2-X2

SECTION AT X1-X1

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PLAN

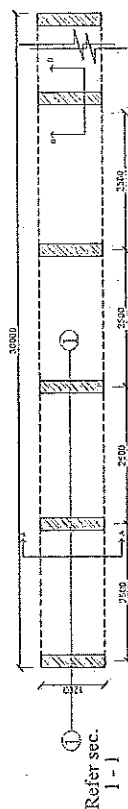


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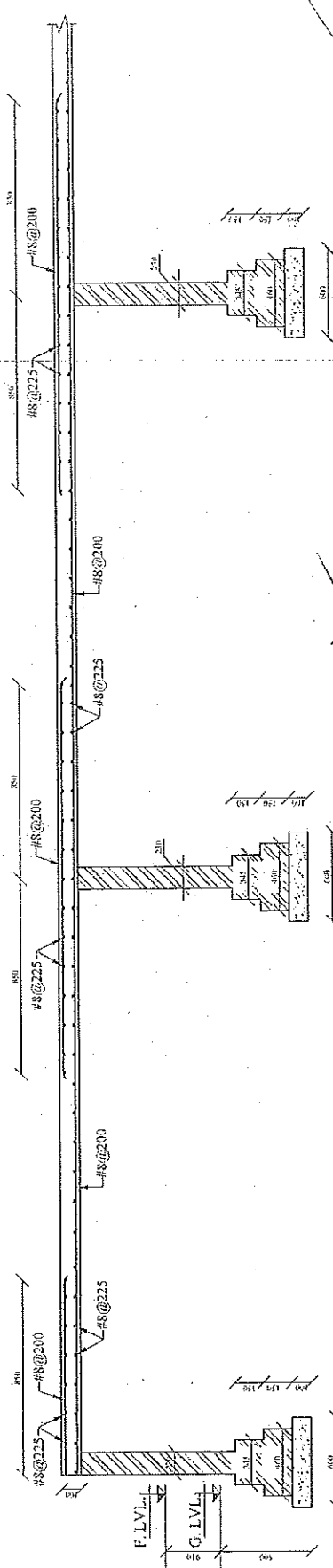


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PROJECT: <



FOUNDATION PLAN



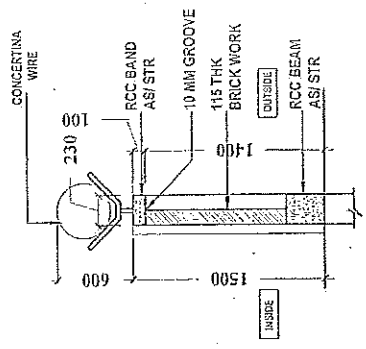
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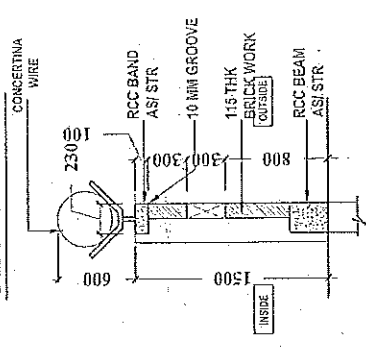


NOTE: (1) This form is to be completed by the applicant and submitted to the nearest U.S. Consulate or Embassy. (2) This form is to be completed by the applicant and submitted to the nearest U.S. Consulate or Embassy. (3) This form is to be completed by the applicant and submitted to the nearest U.S. Consulate or Embassy.	
(GENERAL)	
1. Name of the applicant: JOHN DOE	
2. Date of birth: 12/12/1950	
3. Place of birth: NEW YORK, U.S.A.	
4. Present address: 1234 Main St., New York, N.Y. 10001	
5. Purpose of trip: TO VISIT	
6. Estimated date of departure: 01/01/1981	
7. Estimated date of return: 01/15/1981	
8. Name of sponsor: JOHN DOE	
9. Name of sponsor's address: 1234 Main St., New York, N.Y. 10001	
10. Name of sponsor's telephone: 212-123-4567	
11. Name of sponsor's occupation: SELF EMPLOYED	
12. Name of sponsor's employer: SELF EMPLOYED	
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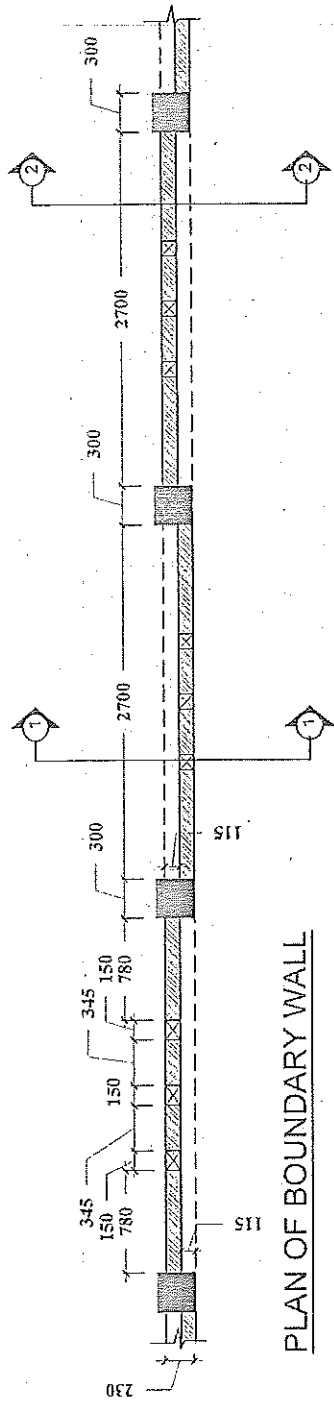
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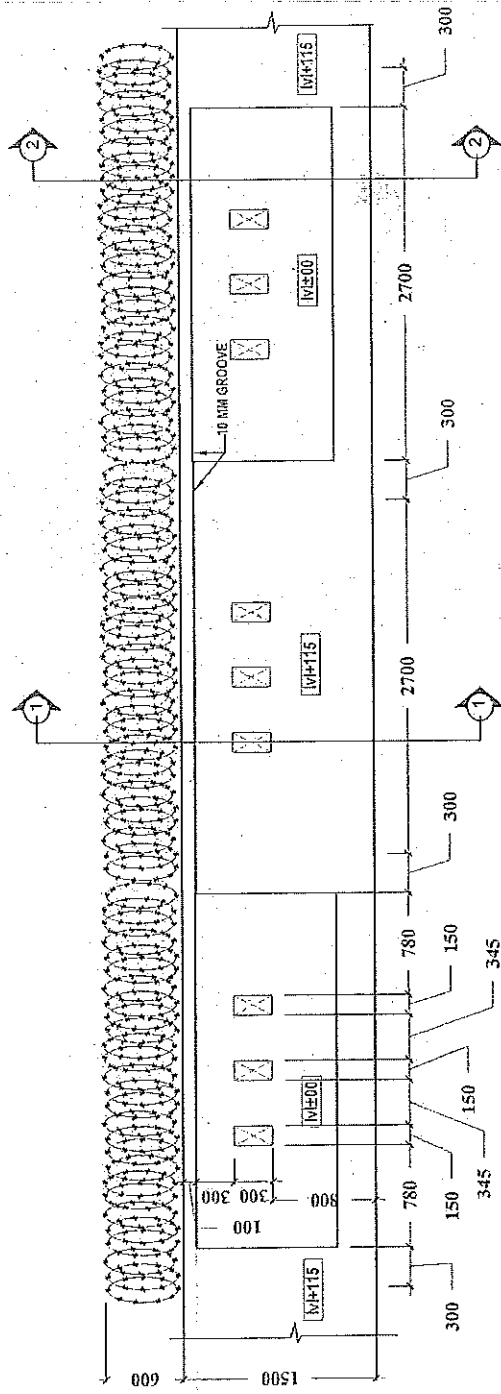
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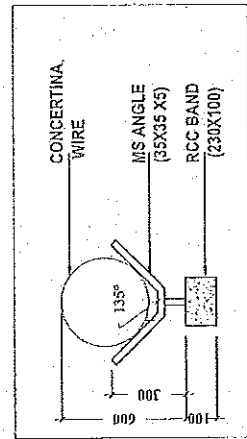
SECTION -1-1



PLAN OF BOUNDARY WALL



ELEVATION



1. Mr. J. K. Singh, B.Tech. (Civil)
2. Mr. A. K. Singh, B.Tech. (Civil)
3. Mr. S. K. Singh, B.Tech. (Civil)
4. Mr. R. K. Singh, B.Tech. (Civil)
5. Mr. P. K. Singh, B.Tech. (Civil)

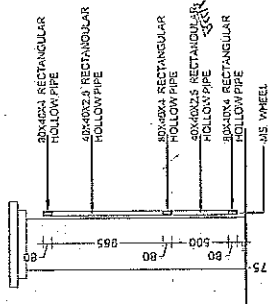
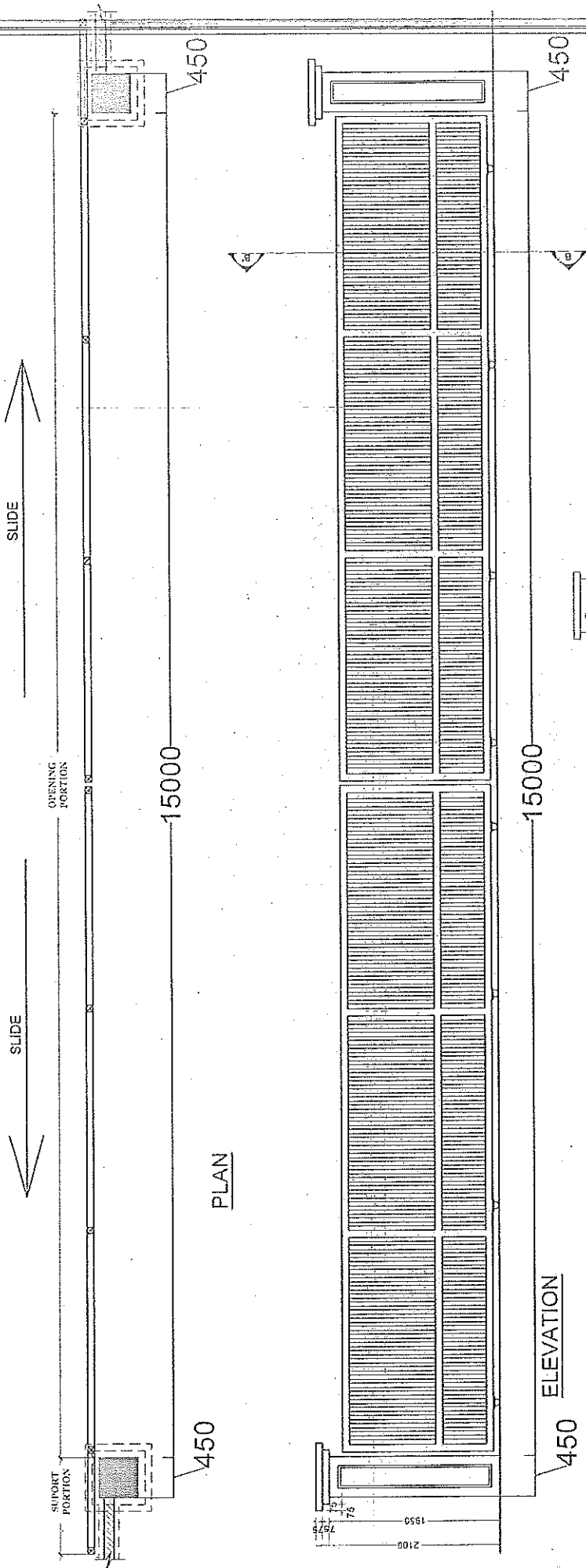


PROJECT:	PROPOSED FIRE STATION (2 UNITS) AT BINDKI ,DISTT:FATEHPUR	AGENCY:	UPPAN	CLIENT:	DRG. TITLE:		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT: A&D CONSTRUCTION ARCHITECTURAL architects, engineers & interior designers
					(BOUNDARY WALL DETAIL)					
					NORTH:	DRG. NO.: AR-01-01				
					DATE:		Aug-24		ADDRESS-24/24, NISHWAS KHAND, CHITTINAGAR, LUCKNOW PIN-221005T-74356	



ADDRESS: 2012, VISHWAS KHAND,
GOVT. NAGAR, LUCKNOW
PH: +91-808741354

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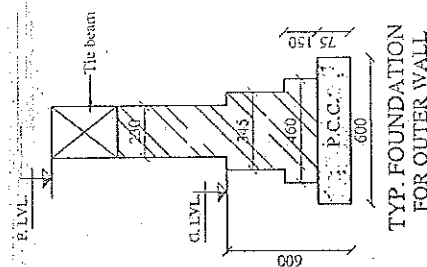


Handwritten notes in Hindi: 'इस गेट को 15 मीटर चौड़ा कर दिया गया है' (The gate has been made 15 meters wide) and 'इस गेट को 450 मिमी चौड़ा कर दिया गया है' (The gate has been made 450 mm wide). There is also a signature and a date '15/08/24'.



SECTION-BB

PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI .DISTT:FATEHPUR	AGENCY: UPPAN	CLIENT:	DRG. TITLE: 15.0 MTR. WIDE MAIN GATE		S.ENGINEER:	EXE. ENGINEER:	ARCHITECT:
			NORTH:		ASTT.ENGINEER:	J.ENGINEER	DATE:
			DRG. NO.: 0104				Aug-24
					ARCHITECT CONSULTANT:- A&D CONSTRUCTION ARCHITECTURAL architects,engineers & interior designers		
					ADDRESS:-2174, VISHWAS KHAND, GOMTINAGAR, LUCKNOW Ph.-91-8081741654		

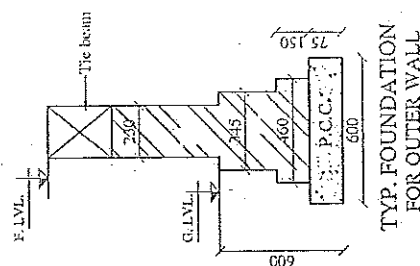
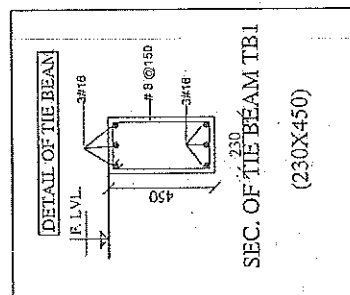
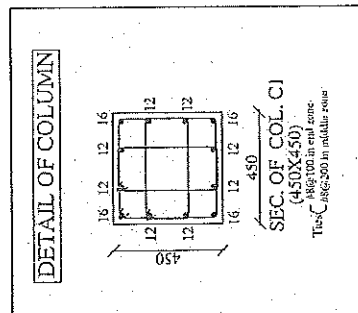


1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.



प्रभाती निगम लि.
आजपूर।

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AGED CONSTRUCTION ARCHITECTURE
 1000 BROADWAY, SUITE 1000
 NEW YORK, NY 10003
 (212) 691-7134

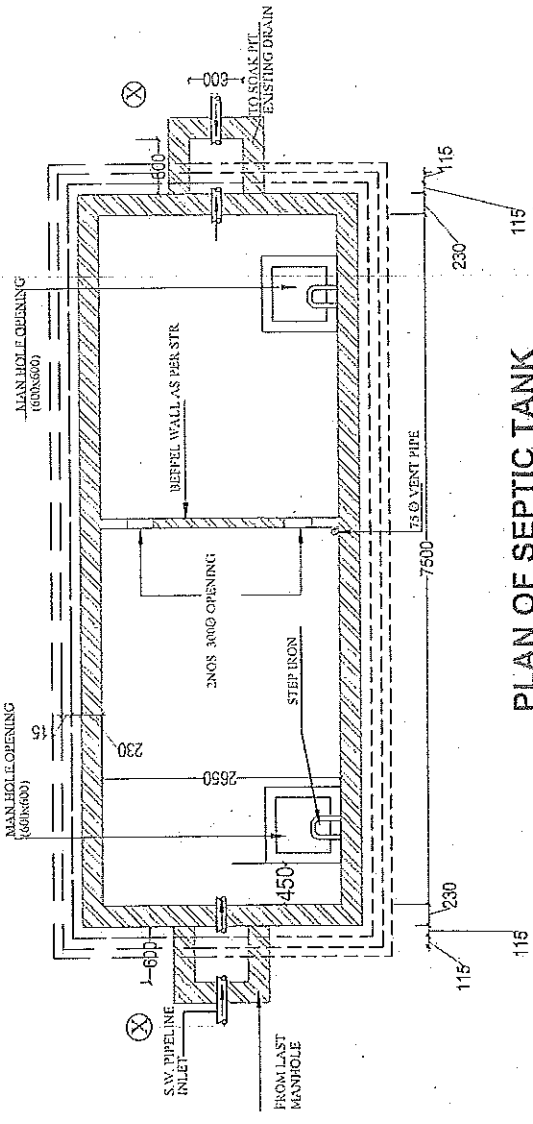
2025 Title
 DETAIL OF FOUNDATION PLAN & FOOTINGS
 PROPOSED FIRE STATION
 (2 UNITS) AT WINDI, DISTT. EATMILPUR
 (S/472)
 Structural Consultants:
 SBC STRUCTURES
 202, C-15, CHANDANVI
 DISTT. GATE-3, CHANDANVI (U.P.)
 2024, RAJ AGARWAL PURWA, CHANDANVI
 DISTT. AGARWAL PURWA, CHANDANVI (U.P.)

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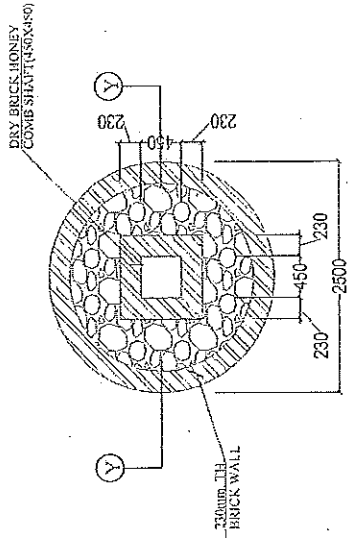
As a result, the authors conclude that the use of the term "transsexual" is not only a matter of semantics, but also a matter of politics. They argue that the term "transsexual" is used to create a sense of community and identity among people who are different from the majority, and that it is used to challenge the dominant social norms and values. They also argue that the term "transsexual" is used to create a sense of solidarity and support among people who are different from the majority, and that it is used to challenge the dominant social norms and values.

150

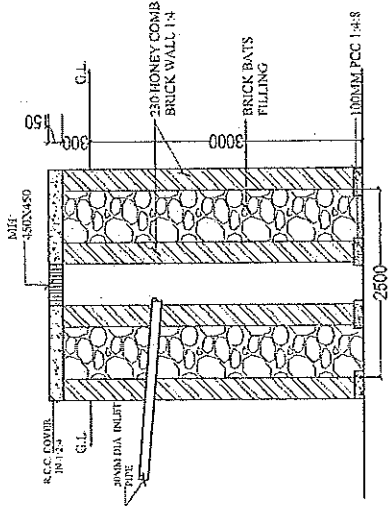


PLAN OF SEPTIC TANK

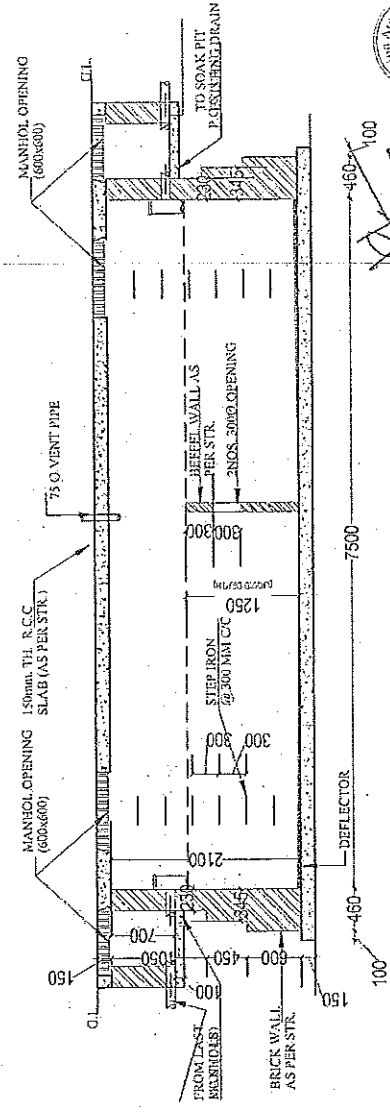
SIZE OF SEPTIC TANK:- 100 users
 LENGTH(L) = 7500 mm
 WIDTH(W) = 2650 mm
 LIQUID DEPTH (D) = 1250mm



PLAN OF SOAK PIT



SECTION - YY

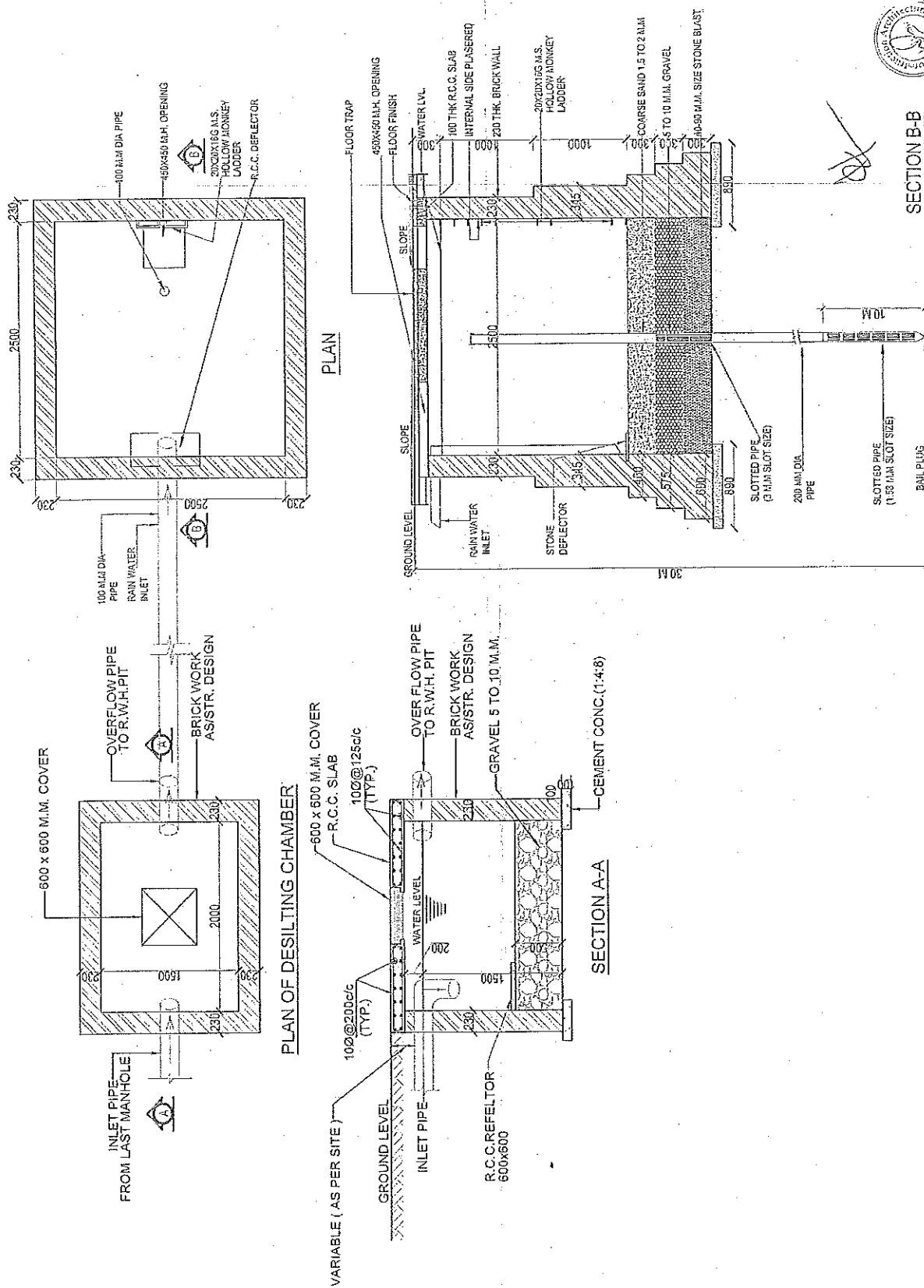


SECTIONAL ELEVATION X-X



PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINDKI , DISTT:FATEHPUR	AGENCY: U.P.P.A.N	CLIENT: -	DRG. TITLE: PLAN & SECTION OF SOAK PIT AND SEPTIC TANK (100 users)	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT:- A&D CONSTRUCTION ARCHITECTURE architects,engineers & interior designers	ADDRESS:20/21, VISHWAS KHAND, GOVERNACAR, LUCKNOW Ph:-91-9361741454, 7866423008					
									NORTH:	DRG. NO.: AR-01-06	ASTT. ENGINEER:	J. ENGINEER	DATE: Jan-24

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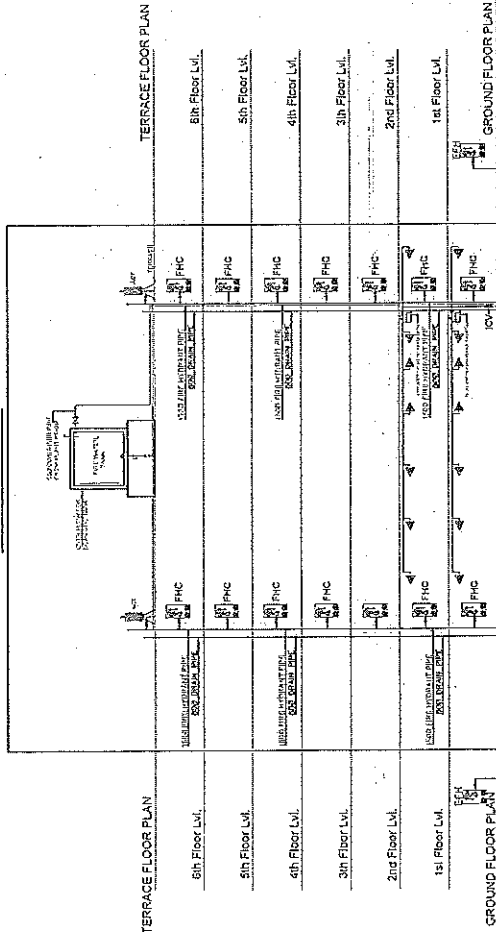


PROJECT: PROPOSED FIRE STATION (2 UNITS) AT BINKKI , DISTT:FATEHPUR	AGENCY: U.P.P.A.N	CLIENT: -	DRG. TITLE: RAIN WATER HARVESTING SYSTEM		S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	ARCHITECT CONSULTANT:- A&D CONSTRUCTION ARCHITECTURAL architects engineers & interior designers ADDRESS:-27/2A, VILWAS NAGAR, GOMTINAGAR, LUCKNOW Ph.-91-608731454
			NORTH:	DRG. NO.: AR-01-01	ASST. ENGINEER:	JENGINEER	DATE: Sep-25	

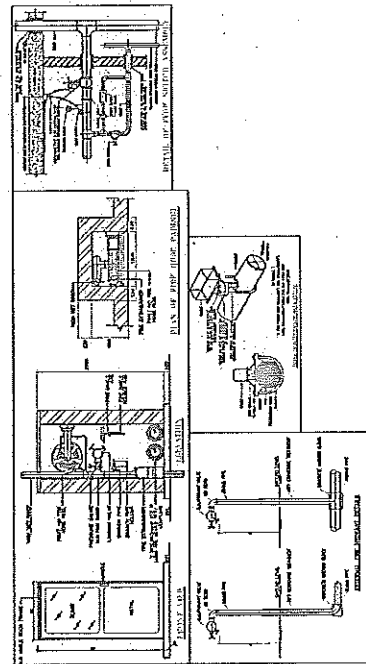
Pumps with capacities proposed in Fire Pump Room:

Sl. No.	Fire Pump Room Equipment Proposed to be Provided	Fire pump Room Equipment Proposed to be Provided
1.	2280 LPM - 1 no. Electric Driven Pump (For Both Sprinkler & Wet Risers)	2280 LPM & 70 M Head - 1 no. Electric Driven Pump (For Both Sprinkler & Wet Risers)
2.	2280 LPM - 1 no. Diesel Driven Pump (For Both Sprinkler & Wet Risers)	2280 LPM & 70 M Head - 1 no. Diesel Driven Pump (For Both Sprinkler & Wet Risers)
3.	180 LPM - 1 no. Jockey Pump (For Both Sprinkler & Wet Risers)	180 LPM & 70 M Head - 1 no. Jockey Pump (For Both Sprinkler & Wet Risers)

MULTISTOREY



150mm SPRINKLER PIPE BUILDING



LEGEND & ABBREVIATIONS

Symbol	Description
100mm	100mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
150mm	150mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
200mm	200mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
250mm	250mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
300mm	300mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
350mm	350mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
400mm	400mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
450mm	450mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
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550mm	550mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
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650mm	650mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
700mm	700mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
750mm	750mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
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850mm	850mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
900mm	900mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
950mm	950mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN
1000mm	1000mm FIRE BRIGADE INLET PIPE TO FIRE RING MAIN

MEP Consultant:



aim Design & Consult
Design, Consultant & Engineer
Office: D3/20, Vihari
Gurgaon, Haryana
Mob: +91-991560307

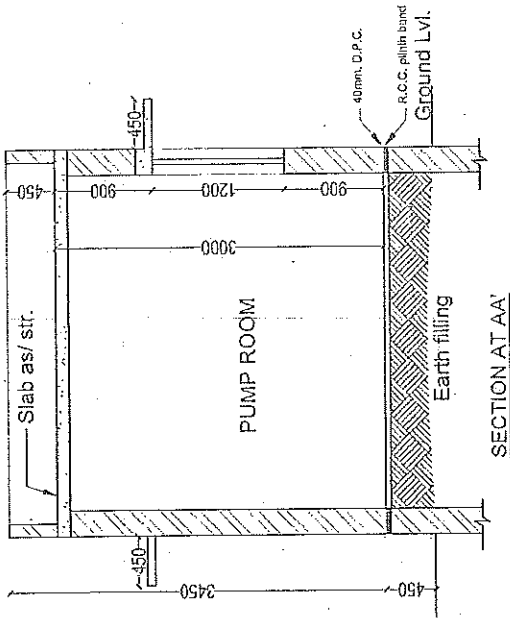


ARCHITECT
Name: _____
Address: _____
Mob: _____

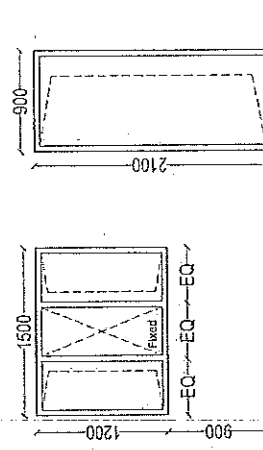
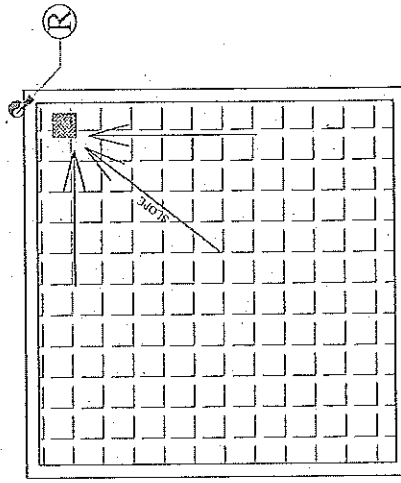
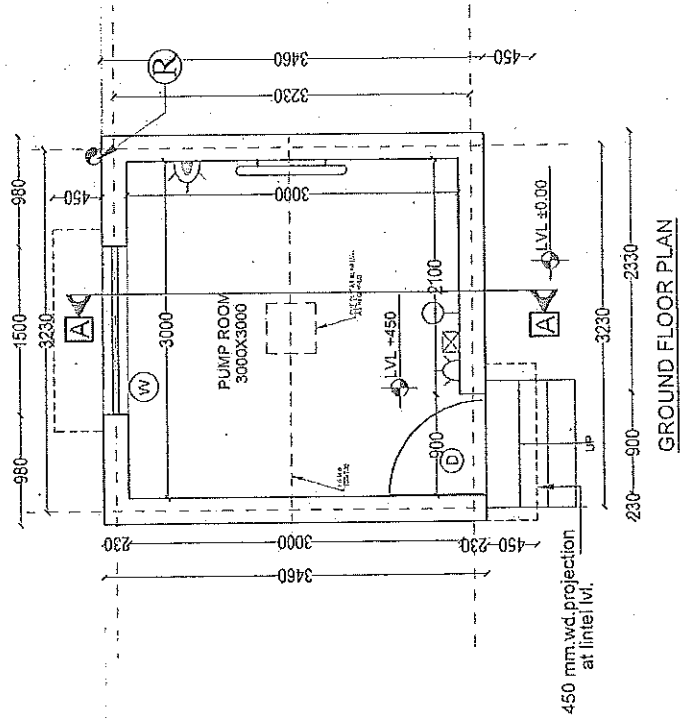
सहायक अभियन्ता
उत्तर प्रदेश पुलिस अधीनस्थ विभाग
प्राप्त संख्या-133/2018

सहायक अभियन्ता
उत्तर प्रदेश पुलिस अधीनस्थ विभाग
प्राप्त संख्या-133/2018

✓ Parapet Lvl. +3900
 ✓ Slab Lvl. +3450
 ✓ Lintel Lvl. +2550
 ✓ Cill Lvl. +1350
 Plinth Lvl. +450
 ✓ Ground Lvl. ±0.00



FRONT ELEVATION



W: 1500 X 2100 NO.-1
 D: 900 X 2100 NO.-1



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 139

PROJECT:	AGENCY:	CLIENT:	DRG. TITLE: PUMP ROOM (WORKING DRAWING DETAIL)	S. ENGINEER:	EXE. ENGINEER:	ARCHITECT:	A&D CONSTRUCTION ARCHITECTURAL architects, engineers & interior designers					
								NORTH:	DRG. NO.: AR-10	ASTT. ENGINEER:	J. ENGINEER	DATE: May -25
PROPOSED FIRE STATION (2 UNITS) AT BINDKI - DISTT:FATEHPUR		U.P.P.A.N		ADDRESS:-20154, VISHWAS NINAD, GOVTINAGAR, LUCKNOW Ph:-91-9081741454								

ADDRESS-21/24, VISHWAS NAGAR,
 SCOTLANDGAR, LUCKNOW
 Ph. +91-9081741454