



कार्यालय परियोजना प्रबन्धक
यूनिट-53, कन्स्ट्रक्शन एण्ड डिजाइन सर्विसेज़
उ०प्र० जल निगम, हरदोई
(उ०प्र० सरकार का उपक्रम)
भवन संख्या 228/01 मो० नघेटा, सिद्धार्थ होटल के सामने वाली गली
हरदोई-241001



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NIT No. 810 / NIVIDA / 156

Dated: 20 / 05 /2026

CORRIGENDUM-1

Online e-tender were invited details as given below on two bid system vide this office NIT No. 640/NIVIDA/144 date 05-05-2026.

Following amendments are being made with immediate effect :-

Details of Tenders :-

Sl. No.	Name of work	Tender ID
1	Const. of Animal Birth Control Centre at Nagar Palika Parishad Harodi Distt. Hardoi	2026_UPCDS_1146003_1

Sl. No.	Reference	Original Provision	Amended Provision
1	Section-06 Schedule-G	-	Uploading of BOQ in Schedule -G

Rest of the terms & conditions of the above cited tender shall remain same.

(Kaushlendra Rathaur)
Project Manager

BOQ (SCHEDULE - G) OF ABC, HARDOI

S.No.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT (IN LACS)
1	COST OF ANIMAL BIRTH CONTROL CENTRE				
(a)	COST OF CIVIL WORKS [UPTO PLINTH]			(AS PER DETAILED ATTACHED)	18.81
(b)	COST OF CIVIL WORKS [ABOVE PLINTH]			(AS PER DETAILED ATTACHED)	49.48
(c)	COST FOR INTERNAL W/S AND SANITATION WORKS			(AS PER DETAILED ATTACHED)	4.55
(d)	COST FOR FIRE FIGHTING WORKS			(AS PER DETAILED ATTACHED)	0.42
(e)	COST FOR INTERNAL ELECTRIFICATION WORK			(AS PER DETAILED ATTACHED)	8.63
(f)	COST FOR EXTERNAL W/S & SEWERAGE WORKS			(AS PER DETAILED ATTACHED)	4.31
(g)	COST FOR RAIN WATER HARVESTING WORKS			(AS PER DETAILED ATTACHED)	4.25
2	COST OF COMMUNITY KENNEL - 10 NOS. (12 dogs/kennel)				
(a)	COST OF CIVIL WORKS			(AS PER DETAILED ATTACHED)	45.30
(b)	COST FOR INTERNAL W/S AND SANITATION WORKS			(AS PER DETAILED ATTACHED)	0.63
(c)	COST FOR INTERNAL ELECTRIFICATION WORK			(AS PER DETAILED ATTACHED)	1.21
3	COST OF SINGLE KENNEL - 15 NOS. FOR DOG CARE CENTRE				
(a)	COST OF CIVIL WORKS			(AS PER DETAILED ATTACHED)	21.35
(b)	COST FOR INTERNAL W/S AND SANITATION WORKS			(AS PER DETAILED ATTACHED)	0.23
(c)	COST FOR INTERNAL ELECTRIFICATION WORK			(AS PER DETAILED ATTACHED)	0.54
4	COST OF KITCHEN BLOCK			(AS PER DETAILED ATTACHED)	5.29
5	COST OF ELECTRICAL ROOM			(AS PER DETAILED ATTACHED)	4.75
4	COST OF EXTERNAL SITE DEVELOPMENT -				
(i)	COST OF WASHING BAY	1.00	NO.	52996.42	0.53
(ii)	COST OF B.O.E. (DSR - 11.2 X 0.735 X 107/107) X 1.03	883.60	SQM.	570.00	5.04
(vi)	COST OF STORM WATER DRAIN	85.00	R.M.	3400.00	2.89
(iv)	COST OF SEPTIC TANK & SOAK PIT - 25 USERS (FOR ADMIN BUILDING)	1.00	NO.	105955.88	1.06
(v)	COST OF SEPTIC TANK & SOAK PIT - 100 USERS (FOR KENNELS)				2.99
(vi)	COST OF CHAIN LINK FENCING				11.36
(vii)	COST OF 4.50 MT. WIDE M.S. GATE	1.00	NO.	143181.89	1.43
(viii)	COST OF HORTICULTURE WORKS			(AS PER DETAILED ATTACHED)	1.71
(ix)	COST OF BORING & SUBMERSIBLE PUMP			(AS PER DETAILED ATTACHED)	2.77
(x)	COST OF EXTERNAL ELECTRICAL WORKS			(AS PER DETAILED ATTACHED)	2.29
(xi)	COST FOR SIGNAGE			(AS PER QUOTATION ATTACHED)	4.70
				TOTAL	206.51
	ADD 1.0% FOR LABOUR CESS				2.07
1	ADD FOR EXTERNAL SURVELLANCE SYSTEM				5.02
				G.Total	213.60
	ADD 1.0% FOR LABOUR CESS				
			SAY RS.	213.60	LAC

#REF!					
#REF!					
[ABSTRACT OF COST - UPTO PLINTH LVL.]					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
1	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap).				
	300mm Dia Pile	337.500	RM.	2205.00	744187.50
2	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer-in-charge.				
	Single pile upto 50 tonne Safe capacity				
(i)	Initial test (Test Load 2.5 times the Safe capacity)	2.000	NOS.	39392.00	78784.00
(ii)	Routine test (Test Load 1.5 times the Safe capacity)	1.000	NOS.	14120.00	14120.00
3	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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
(a)	Excavation up to 1.50 mt. depth	52.776	CUM	187.00	9869.06
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	36.943	CUM	141.00	5208.96
5	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.	43.619	CUM	504.00	21983.79
6	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 : 8 graded stone aggregate 40mm nominal size)	31.207	CUM	4899.00	152885.44
7	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	22.519	CUM	1527.00	34386.01
8	Diluting and injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	Treatment of soil under 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 floor: With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	222.080	SQM	223.00	49523.84

	Treatment of masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole, With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	222.080	SQM	31.00	6884.48
9	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Plinth band)				
	All works upto plinth level	14.920	CUM	6506.00	97069.11
10	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Footing)				
	All works upto plinth level	4.535	CUM	6506.00	29502.11
11	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Column)				
	All works upto plinth level	0.843	CUM	6506.00	5485.34
12	First class 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)	24.667	CUM	5129.00	126518.19
13	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	28.310	SQM	295.00	8351.49
14	Painting on D.P.C. with two coat of air blown bitumen 85/50 or 85/25 1.7 kg/sqm approximate including cost of fuel if any.	28.310	SQM	105.00	2972.56
15	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.	52.036	QTL	7757.00	403642.31
16	15 mm thick plinth plaster [1 cement : 4 coarse sand]	69.399	SQM	296.00	20542.10
17	Centering and shuttering including strutting, propping etc. and removal of form for :				
a)	Foundations, footings, bases of columns, etc. for mass concrete	21.943	SQM	282.00	6187.93
b)	Columns, Pillars, Piers, Abutments, Posts and Struts	9.168	SQM	691.00	6335.09
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	107.023	SQM	530.00	56722.14
				TOTAL	1881161.45
			Say Rs.	18.81	Lacs.

[ABSTRACT OF COST - ABOVE PLINTH LVL.]					
S.No.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).				
	R.C.C. Lintel				
(a)	Ground & First Floor	6.005	CUM	8275.00	49690.88
2	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) : 3 graded stone aggregate 20 mm nominal size).				
	R.C.C. Slab				
(a)	Ground & First Floor	47.254	CUM	8275.00	391027.96
3	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) : 3 graded stone aggregate 20 mm nominal size).				
	R.C.C. Beam				
(a)	Ground & First Floor	6.834	CUM	8275.00	56554.12
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 : 3 graded stone aggregate 20 mm nominal size)-(Column)	4.752	CUM	7805.00	37089.36
5	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)				
(a)	Ground & First Floor	136.668	CUM	6549.00	895040.65
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in Super structure in : cement mortar 1:4 (1 cement : 4 coarse sand) above floor V level for every four floors or part there of by mechanical means. & Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.				
(a)	Ground & First Floor	109.074	SQM.	884.00	96421.64
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.				
(a)	Ground & First Floor	66.903	QTL	7757.00	518970.41
8	15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)				
(a)	Ground & First Floor	692.038	SQM	277.00	191694.39
9	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)				
(a)	Ground & First Floor	713.329	SQM	247.00	176192.28

10	12mm thick plaster in 1:3 on ceiling and soffits of stairs upto floor two level.	[For Ceiling Paint only]			
(a)	Ground & First Floor	332.505	SQM		
11	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge : 15 mm wide and 15 mm deep groove	137.960	RM	54.00	7449.84
12	Providing and fixing 18 mm thick (Granite) 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. Area of slab over 0.50 sqm				
(a)	Ground & First Floor	35.578	SQM	3694.00	131424.21
13	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				
(a)	Ground & First Floor	56.820	RM	367.00	20852.94
14	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				
(a)	Ground Floor	161.038	SQM	1117.00	179879.78
15	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				
(a)	Ground & First Floor	22.479	SQM	1167.00	26232.99
16	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) : 25 mm thick				
(a)	Ground & First Floor	85.542	SQM	1401.00	119843.99
17	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	12.212	SQM	1693.00	20674.07

18	Providing and fixing 1st quality ceramic glazed floor 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.				
(a)	Ground & First Floor	28.692	SQM	800.00	22953.24
19	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.				
(a)	Ground & First Floor	143.451	SQM	912.00	130827.31
20	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12-20mm nominal size laid in one layer neat cement (25 mm thick floor).				
		42.399	SQM	333.00	14118.87
21	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and Tiron guide at the top and bottom respectively, including applying a priming coat of approved steel primer				
		2.400	SQM	4722.00	11332.80
22	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. (Laminated)				
	(a) Single leaf	36.090	SQM	2498.00	90152.82
	(b) Double leaf	10.800	SQM	2575.00	27810.00
	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).	46.890	SQM	333.00	15614.37
23	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)				
		36.800	KG.	102.00	3753.60
24	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)	1000.72	KG.	140.00	140100.52

25	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	22.275	SQM	766.00	17062.65
26	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)				
(a)	Ground & First Floor	713.329	SQM	123.00	87739.47
27	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. (For Internal wall surface & ceiling)				
(a)	Ground & First Floor	1024.542	SQM	134.00	137288.63
28	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.				
(a)	Ground & First Floor	1737.871	SQM	112.00	194641.56
29	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete.	21.000	NOS.	197.00	4137.00
30	Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .	21.000	NOS	523.00	10983.00
31	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete				
	(a) 250 mm x 10mm	21.000	NOS	418.00	8778.00
32	Providing and fixing stainless steel handles with screws etc. complete (a) 125 mm	42.000	NOS	214.00	8988.00
33	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.	204.392	SQM	1212.00	247723.16
34	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.	160.600	KG	556.00	89293.60
35	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level :1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	0.663	CUM	5666.00	3754.76
36	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).Ordinary cement without any pigment	9.000	SQM	1008.00	9072.00
37	Providing & laying of light cinder filling under floor of toilets & other sunken roofs.	3.976	CUM.	1972.00	7840.87
38	Providing & applying 100% solids, flexible, elastomeric, UV stable, 2 component, waterproof, fast setting, monolithic, hydrophobic in nature, NO-VOC, CFTRI-US-FDA-175-300 coating on prepared surface as following :- P/L DONCRETE/EQUIVALENTPP solvent free primer @ 100gsm per m2 for conjunction of DONCRETE/EQUIVALENT PU conforming to ASTM-D-2369 C,ASTM-D-2369, ASTM-D-638, ASTM-D-4541, ASTM-D- 638, ASTM-D- 2240, ASTM-E-96, ASTM-B-117-73, ASTM-D-91, ASTM-D-624, ASTM-D-4060, ASTM-C-8, ASTM-D-512, ASTM-G-53, ASTM-3912 @ 1 Ltr per m2 for 1.00 mm thick. The coating shall be carried out in single application with multiple passes, using high pressure plural component reactor strictly as per manufacture specification, rate materials, labor, and tools. Surface preparation includes repairs of holes, cracks, voids, pinholes, bug holes. Joints shall be filled with epoxy putty Confirming the ASTM D 638, ASTMD 4541, and ASTM D 2369. The corner rounding/angle fillet shall be prepared/replaced as required to smooth transition of coating from horizontal to vertical surfaces	18.632	SQM	903.00	16824.94
39	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. Flats,square or round bars etc. all complete. Fixed to Steel windows by welding	311.850	KG	158.00	49272.30

40	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).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)				
	Providing & fixing of Z-section windows.	334.125	KG	94.00	31407.75
41	Steel Painting:				
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	50.409	SQM	48.00	2419.63
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	50.409	SQM	163.00	8216.67
42	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).				
	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. With float glass panes of 5.0 mm thickness.				
	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm				
	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). (a) Sal wood	61.380	RM.	1050.00	64449.00
43	Supply & Fixing of 8 mm thick toughened Glass for windows the glass make of Saint Gobincomplete with all labour & material.	21.144	SQM.	2280.00	48208.32
44	Supply & Fixing of 12 mm thick toughened Glass doors the glass make of Saint Gobin frameless with all necessary hardware and locking device complete with all labour & material and including Glass film as per approved design.(accessories shall be of Ozone/Rinox or Equivalent Make)	6.120	SQM.	13775.00	84303.00

45	Fixing UniStone CFP – Clay Façade Paneling system in approved shade, finish, size and in thickness of 15mm. The clay panels shall have Flexural Strength /Modulus of rupture $\geq 9 \text{ N/mm}^2$ in accordance to ISO – 10545 -4 with breaking strength $\geq 550 \text{ N}$ in accordance to ISO 10545-4. The panels should have water absorption $\leq 4 \%$ in accordance to ISO – 10545-3. The surface scratch hardness value i.e., Moh's scale should be Minimum 6 in accordance to ISO -10545-2. The clay panels should have inherent properties of being resistant to stains and chemicals. The material should be Class I material in terms of reaction to fire in accordance to EN 13501-1 / ASTM E136. The entire system should be certified by an approved third-party structural consultant for a minimum structural proof load test with positive & negative wind pressure of 5kPA.				
	The cladding panels shall be fixed on to existing cured plastered surface substrate wall treated with one or two coats of primer with appropriate Aluminum rectangular hollow section vertical members framework of 25mm X 50mm (2mm thick) which shall be spaced out in accordance to the dimensions of the panel with minimum spacing of 600mm. The framework shall be attached through L shaped aluminum connectors of 25mm X 37mm (2mm thick) to the substrate walls. The manufactured panels shall have an evenly controlled factory – made groove for resting on to a continuous aluminum rail profiles throughout their length. The profiles are designed and manufactured for starter piece, intermediate and an inverted starter profile for the top piece. Aluminum rail profile shall ensure uniform and precision				
	joints and shall be factory finished with Super Durable powder coated colour in approved RAL shade. All fixtures, and screws shall be corrosion free i.e., all rail profiles, cleats to be used should be made of 6063 T6 alloy grade and all screws used should be of Stainless steel of M/s Hilti, Worth, Klimas, Patta or equivalent. The groove of the width can be chosen i.e., 1.7mm, 3mm, 6.5mm, 12.6mm or 20mm. The corners junctions to be neatly treated with adequate aluminum closed 'L' corner shaped pieces in required length in similar shade coated with factory finished Super Durable Powder, to the clay façade panel. Alternatively, the corners junctions can be treated as regular corner fixing or Mitred corner fixing. All fixing details and drawings to be provided by vendor and to be duly approved by Engineer in charge at project and the work to be carried out as per direction of the Engineer- in charge.				
	Size: 600mm x 1200mm Shade: Terracotta	13.508	SQM	6644.00	89743.83
46	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Columns, Pillars, Piers, Abutments, Posts and Struts.	63.360	SQM	693.00	43908.48
(b)	Suspended floors, roofs, landings, balconies and access platform.	379.583	SQM	667.00	253181.81
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	100.534	SQM	530.00	53283.02
				TOTAL	4948224.51
				49.48	Lacs.

Plumbing Work					
Sr. No.	Description	Unit	Qty	RATE	DSR Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS					
1	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	Each	5	4686.00	23430.00
2	Providing & fixing toilet paper holder				
	C.P. brass	Each	5	578.00	2890.00
3	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.	Each	5	251.00	1255.00
4	Providing and fixing Jaquar Make Hand Shower (Health Faucet) with 8mm Dia, 1.2 Meter Long Flexible Tube & Wall Hook of quality and make as approved by Engineer - in - charge.	Each	5	1549.00	7745.00
5	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	6	1601.00	9606.00
6	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	6	744.00	4464.00
7	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.	Each	6	121.00	726.00
8	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	6	167.00	1002.00
9	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.	Each	6	1156.00	6936.00
10	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern & jet)				
	15 mm nominal bore	Each	21	413.00	8673.00
11	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	Each	16	70.00	1120.00
12	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
	100 mm diameter	Each	2	139.00	278.00
13	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm nominal bore	Each	2	482.00	964.00
14	Providing and fixing PTMT towel rail complete with brackets fixed to 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.	Each	2	510.00	1020.00
15	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	2	80.00	160.00
16	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required				
	Kitchen sink with drain board				
	510x1040 mm bowl depth 200 mm	Each	1	5148.00	5148.00
17	Providing & fixing PVC waste pipe for sink including PVC waste fittings Complete				
	Flexible Pipe				
	32mm Dia	Each	1	86.00	86.00

18	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15mm nominal bore	Each	5	364.00	1820.00
19	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	Each	4	575.00	2300.00
20	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.	Each	9	54.00	486.00
21	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. (Including C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia)	Each	2	5889.00	11778.00
22	Providing and fixing stone slab with table rubbed , edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	sqm	0.8	2914.00	2404.05
2.0 SUB HEAD-II-WATER SUPPLY					
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes , having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases and making good the walls etc. For Internal Toilet				
	15 mm nominal outer dia Pipes	Metre	9	358.00	3111.02
	20 mm nominal outer dia Pipes	Metre	36	387.00	13962.96
	25 mm nominal outer dia Pipes	Metre	4	451.00	1984.40
2	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. Internal work - Exposed on wall				
	20 mm nominal bore	Metre	18	241.00	4241.60
	25 mm nominal bore	Metre	40	289.00	11444.40
3	Providing and fixing GI pipes complete with GI fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on Wall Terrace loop & Tank Filling Pipe				
	20 mm nominal bore	Metre	28	314.00	8635.00
	25 mm nominal bore	Metre	22	397.00	8734.00
	32mm nominal bore	Metre	22	480.00	10560.00
	40mm nominal bore	Metre	55	584.00	32120.00
	50 mm nominal bore	Metre	22	754.00	16588.00
4	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
	20mm diameter pipe	Metre	28	10.00	275.00
	25mm diameter pipe	Metre	22	13.00	286.00
	32mm diameter pipe	Metre	22	16.00	352.00
	40mm diameter pipe	Metre	55	18.00	990.00
	50mm diameter pipe	Metre	22	22.00	484.00
5	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
	20mm diameter pipe	Each	9	249.00	2282.50
	25mm diameter pipe	Each	7	316.00	2317.33
	32mm diameter pipe	Each	7	352.00	2581.33
	40mm diameter pipe	Each	18	454.00	8323.33
	50mm diameter pipe	Each	7	592.00	4341.33
6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : For vertical pipe connection with terrace ringmain				
	20 mm nominal bore	Each	2	388.00	776.00
	25mm nominal bore	Each	4	448.00	1792.00
	32mm nominal bore	Each	1	496.00	496.00

	40mm nominal bore	Each	4	594.00	2376.00
	50mm nominal bore	Each	3	738.00	2214.00
7	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
	25 to 40 mm nominal bore	Each	11	656.00	7216.00
	50 to 80 mm nominal bore	Each	3	1284.00	3852.00
8	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.				
	40 mm nominal bore, 206 mm long, weighing not less than 690 gms	Each	1	530.00	530.00
9	Providing and placing on terrace (at all floor levels) polyethylene water storage tank , IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	5000	8.00	40000.00
	SUB HEAD : III - ROOFING				
1	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 dia (for rain water)	Metre	45	271.00	12195.00
2	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.				
	Single Push Fit Coupler				
	110 mm dia	Each	15	92.00	1380.00
	Single tee with door				
	110x110x110 mm	Each	3	168.00	504.00
	Plain bend 87.5 deg				
	110 mm dia	Each	6	108.00	648.00
3	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 dia	Each	23	267.00	6007.50
4	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 x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	3	214.00	642.00
5	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	All kind of soil				
	Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	Metre	15	253.00	3795.00
6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	100mm dia SW pipe	Metre	15	694.00	10410.00
	SUB HEAD : IV - INTERNAL DRAINAGE				
1	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes.				
	Internal Toilet (Soil & Waste Pipe)				
	75 mm	Metre	23	480.00	11088.00
	110 mm	Metre	22	679.00	15012.69
	Exposed on Wall (Soil & Waste Pipe)				
	110 mm	Metre	45	679.00	30555.00
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion.				
	Bend without door (45°)				

75mm	Each	11	128.00	1408.00
110mm	Each	5	209.00	1045.00
Bend without door (87.5°)				
75mm bend	Each	11	143.00	1573.00
110mm	Each	10	247.00	2470.00
Y Fitting without door				
75mm	Each	11	219.00	2409.00
110mm	Each	5	394.00	1970.00
Single Tee without door				
75mm	Each	11	214.00	2354.00
110 mm	Each	5	347.00	1735.00
Single Tee with door				
75mm	Each	4	242.00	968.00
110 mm	Each	5	404.00	2020.00
Bend with door (87.5°)				
75mm	Each	4	176.00	704.00
110 mm	Each	5	295.00	1475.00
Reduced 'Y' Fitting without door				
110mm x 75mm	Each	2	318.00	636.00
Reduced Tee with door				
110mm x 75mm	Each	4	352.00	1408.00
Coupler				
75mm	Each	8	133.00	1024.10
110mm	Each	22	209.00	4675.33
Vent Cowl				
110mm	Each	3	86.00	258.00
3	Providing, fixing, jointing and testing, unplasticized PVC pipes - 10 kg/cm2 confirming to IS : 4985 to wall, ceiling and floor, approved quality, complete, for waste water drain including jointing with rubbering/solvent/solution and airtight joints, etc.			
For Wash basin & Urinal				
32mm dia. Pipe	Metre	18	176.00	3252.48
50mm dia. pipe	Metre	6	328.00	1876.16
Elbow (45°)				
32mm	Each	4	43.00	172.00
50mm	Each	2	67.00	134.00
Elbow (90°)				
32mm	Each	6	38.00	228.00
50mm	Each	2	81.00	162.00
T fitting				
32mm	Each	4	43.00	172.00
50mm	Each	2	95.00	190.00
Coupler				
32mm	Each	6	33.00	203.28
50mm	Each	2	57.00	108.68
4	Providing, fixing, jointing and testing , of PVC Multi Floor Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.			
110mm x 75mm x 50mm/40mm (Toilet)	Each	6	1159.00	6954.00
5	Providing, fixing, jointing and testing , of PVC Nahani Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.			
110mm x 75mm (Toilet & Kitchen)	Each	5	1093.00	5465.00
6	Providing and fixing PTMT grating of approved quality and colour.			
Rectangular type with openable circular lid				
150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	Each	11	142.00	1562.00
7	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :			
150 x 100mm size P-type				
With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3	1966.00	5898.00
8	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:			
100 mm diameter	Metre	6	319.00	1914.00
9	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.			
All kind of soil				
Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	Metre	20	253.00	5060.00
10	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:			
100mm dia SW pipe	Metre	20	694.00	13880.00
			TOTAL	454758.48

SCHEDULE OF QUANTITIES FOR FIRE FIGHTING SYSTEM					
Sr. No.	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (In Rs.)	AMOUNT
SUB HEAD-III: FIRE EXTINGUISHER					
1	Supply and fixing of C02 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.	Each	2	11380	22760.00
2	Supply and fixing of fire extinguisher, ABC Type 6.00 kg. capacity (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.	Each	2	8645	17290.00
3	Providing and fixing Fire related signages printed on photoluminescent U1000 aluminium sheet of 1.0 mm (+-10%) containing Lumigen II as base chemical, covered under UV stabilized coating and of appropriate size including fixing on wall, door, ceiling etc. with proper clamps, hangers, cleats, anchor fasteners etc. complete in all respects as directed by Engineer-in-charge.	Nos.	2	950	1900.00
TOTAL OF SUBHEAD-III					41950.00
TOTAL COST FOR FIRE FIGHTING SERVICES					41,950.00

SCHEDULE OF QUANTITIES OF ELECTRICAL WORKS FOR					
PROPOSED ANIMAL BIRTH CONTROL CENTRE AT PASHU PRAJNAN NIYANTRAN KENDRA AT HARDOI UTTAR PRADESH					
S.NO.	DESCRIPTION OF ITEM	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	59	Point	1222.00	72098
2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	40	Point	713.00	28520
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	162	Metre	190.00	30780
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	150	Metre	222.00	33300
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	510	Metre	268.00	136680
	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	90	Metre	583.00	52470
	4 x 10 sq.mm + 2 x 6 sq.mm. earth wire	90	Metre	773.00	69570
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	17	Each	391.00	6647
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	17	Each	473.00	8041
6	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.	4	Each	579.00	2316
7	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	12	Each	288.00	3456
8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	5/6 A switch	17	Each	87.00	1479
	3 pin 5/6 A socket outlet	17	Each	98.00	1666
9	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	60	Each	75.00	4500

10	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	12	Each	209.00	2508
11	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	12	Each	38.00	456
SUB-HEAD II - FANS & LIGHT FIXTURES:					
12	LED Panel light 2x2 ft., (System lumen efficacy>135 lm/Watt)				
	Supplying, installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%. Operating voltage AC 140- 270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 degcentigrade, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast / Extruded aluminium Body (Thickness≥ 1.20 mm)				
	36 watt	4	Each	2867.00	11468
13	LED Down lighter (SMD Type) (System lumen efficacy >135lm/Watt)				

	Supplying, installation, testing & Commissioning of LED Recessed/surface Down lighter (Round /square/Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K/ 4000°K /5700°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
	8-10 watt	14	Each	471.00	6594.00
	12-15 watt	12	Each	542.00	6504.00
14	LED Batten light (System lumen efficacy >135 lm/Watt)				
	Supplying, installation, testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
	18- 22 Watt	38	Each	564.00	21432
15	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc.Including connection with 1.5 sqmm FRLS PVC insulated copper conductor as required.	4	Each	2128.00	8512.00

16	Supplying of LED mirror light luminaire with 10W watt complete with electronic ballast, lamp including connection etc. complete as required, including connection with 1.5 sqmm FRLS PVC insulated copper conductor.	5	Each	636.00	3180.00
17	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy >135lm/Watt)				
	Supplying, Installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F.≥0.95, IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin) , SDCM(Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
	50 watt	5	Each	1498.00	7490
24	Brush Less Direct Current (BLDC) Fan with Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.	12	Each	1933.00	23196
					-
25	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				-
	300mm EXHAUST FAN	5	Each	3326.00	16630
	SUBHEAD- III: DISTRIBUTION BOARD				

26	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				
	63 A,25KA,FP MCCB	2	Each	13166.00	26332
	100 A,30KA,FP MCCB	2	Each	5829.00	11658
	125 A,36KA,FP MCCB	2	Each	6200.00	12400
	160 A,36KA,FP MCCB	2	Each	6200.00	12400
27	Supplying and fixing following way ,single pole and neutral,sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				-
	12 way, Double Door	1	Nos.	2059.00	2059
28	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				-
	6 way Double door	2	Nos.	3801.00	7602
29	Supplying and fixing TP/FP sheet steel enclosure on surface/ recess. Suitable for upto 125 A 415 V MCCB complete with connections, testing and commissioning etc. as required.	6	Each	2850.00	17100
30	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required				-
	40 amps 4P MCB	2	Each	3462.00	6924
31	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB),having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. As required.				-
	25 amps	6	Nos	1536.00	9216
32	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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	36	Nos.	204.00	7344
	Triple pole and neutral	1	Nos.	933.00	933
33	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4	Each	10.00	36
34	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	4	Each	902.00	3608
35	Supplying and fixing 4P sheet steel enclosure on surface/ recess complete with connections, testing and commissioning etc. as required.	4	Each	863.00	3452
36	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.				-
	90 mm dia (OD-90 mm & ID-76 mm nominal)	10	Metre	131.00	1310
	SUB-HEAD -VI- TELEPHONE & LAN SYSTEM				

37	Supplying, drawing, connecting and testing of 0.5 mm dia annealed copper conductor PVC insulated PVC sheathed telephone wire in existing conduit/wire way duct etc. as required of following sizes:				
a.	2 Pair (4 core)	120	Metre	28.00	3360.00
38	Providing, laying, connecting and testing of multi-core telephone armoured cable of conductor size 0.5mm dia annealed copper conductor PVC insulated PVC sheathed jelly filled (as per DOT specification) cable along wall or ceiling or through existing pipe.				
	10 Pair telephone cable	50	Metre	390.00	19500.00
39	Providing, fixing connecting and testing of under noted size of solderless telephone tag block Krone make in surface/recess in wall required size of M.S. box with hinged lockable cover duly stove enamel painted.				
	10 pair tag block	1	Each	4636.00	4636.00
40	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a)	20mm dia PVC conduit	120	Metre	108.00	12960.00
b)	25mm dia PVC conduit	18	Metre	120.00	2160.00
c)	32mm dia PVC conduit	12	Metre	150.00	1800.00
41	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required				
	1 or 2 Module (75mmX75mm)	17	Each	254.00	4318.00
42	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	Telephone socket outlet	8	Each	120.00	960.00
	TV antenna socket outlet	1	Each	120.00	120.00
	RJ-45 Data Socket outlet	8	Each	850.00	6800.00
#REF!	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing conduit/ on surface, Category 6 Unshielded Twisted Pair, 4 pair should be complied as per UL/ETL verification program for compliance with ANSI/TIA-568.2-D standard. Outer diameter should be in the range of 6.1mm nominal with Operating Temperature Range : -5° to +60°C, Bending Radius : < 4 X Cable Diameter at -5°C ± 1°C and Pulling Force : 11.5Kg etc. complete as required.				
	1 run of cable	240	Metre	43.00	10320.00
#REF!	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.				
		30	Metre	39.00	1170.00
	SUB-HEAD -V : L.T. CABLES				
#REF!	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required				
	Above 95 sq.mm. and upto 185 sq.mm.	120	Meter	70.00	8400.00

#REF!	Supply of following siz of 1.1KV grade multicore aluminium conductor XLPE insulated and PVC shethed armoured cable as per IS 7098:1988 with up to date amendment				
	3.5 x 50 sq.mm	120	Metre	666.00	79920.00
#REF!	Supplying and making cable end terminations with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade, complete as required.				
	3½ X 50 sq. mm (35mm)	2	Each	347.00	694.00
#REF!	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				
	100 mm dia	10	Meter	1376.00	13760.00
#REF!	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
	100mm dia	12	Metre	553.00	6636.00
#REF!	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
	90 mm dia (OD-90 mm & ID-76 mm nominal)	15	Metre	241.00	3615.00
	TOTAL			TOTAL	862996.00

(COST OF EXTERNAL SEWERAGE & EXTERNAL WATER SUPPLY WORKS)					
S.N.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
I	COST OF SEWERAGE WORKS				
1	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m				
	up to 1.50 m depth				
	Pipes 80 mm to 300 mm diameter	metre	132	253.00	33396.00
	1.50 m to 3.00 m depth				
	Pipes 80 mm to 300 mm diameter	metre	66	253.00	16698.00
2	Open timbering in trenches including shuttering and shoring complete. (Measurement to be taken of the face area timbered)				
	Depth not exceeding 1.5 meter	Sqm	396.0	52.00	20592.00
	Depth 1.5 to 3.00 meter	Sqm	396.0	59.00	23364.00
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. dia. RCC Pipes	metre	132	400.00	52800.00
4	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. RCC Pipes	metre	132	534.00	70488.00
5	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 nmlal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90x80cms and 45cms deep including CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg).				
	With common burnt clay FPS (non modular) bricks of class designation 7.5				
	(i) For Sewer Line	each	10.00	9184.00	91840.00
	Extra for depth for manholes:				
	Size 90x80cm with With common burnt clay FPS (non modular) bricks of class designation 7.5	metre	5.00	6347.00	31735.00

6	Providing orange colour safety foot rests of minimum 6 mm thick plastic encapsulated as per IS:10910 on 12 mm dia steel bar conforming to IS:1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm thread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	10.00	398.00	3980.00
II COST OF EXTERNAL WATER SUPPLY WORKS					
1	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	40mm nominal bore.	Rm.	88	444.00	39072.00
	32mm nominal bore.	Rm.	33	389.00	12837.00
	25mm nominal bore.	Rm.	22	336.00	7392.00
	20mm nominal bore.	Rm.	22	265.00	5830.00
2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	40mm nominal bore.	Nos.	1	594.00	594.00
	32mm nominal bore.	Nos.	1	496.00	496.00
	25mm nominal bore.	Nos.	1	448.00	448.00
	20mm nominal bore.	Nos.	1	388.00	388.00
3	Providing and fixing gun metal non- return valve of approved quality (screwed end) : (horizontal)				
	40mm nominal bore.	Nos.	1	685.00	685.00
4	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per <u>standard design</u> :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	2.00	1433.00	2866.00
5	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per <u>standard design</u> :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	7812.00	15624.00
				TOTAL	431125.00

(COST OF EXTERNAL RAIN WATER HARVESTING WORKS)					
S.N.	DESCRIPTION	UNIT	QTY.	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 50m and lift upto 1.5 m, as directed by Engineer-incharge.				
(A)	In all kind of soil upto 1.5m depth	Cum	22.59	128.00	2891.52
(B)	In all kind of soil upto 1.5m to 3.0m. depth	Cum	22.59	219.00	4947.21
(C)	In all kind of soil upto 3.0m to 4.5m. depth	Cum	22.59	310.00	7002.90
(D)	In all kind of soil upto 4.5 m to 6.0m. depth	Cum	10.54	401.00	4226.54
2	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.	Cum	1.20	5666.00	6799.20
3	Class M-150 brick work in 1:4 cement coarse sand mortar in foundation & plinth including supply of all materials, labour, tools and plants etc. required for proper completion of the work.	Cum	24.14	5301.00	127966.14
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	Cum	1.61	6505.00	10473.05
4,a	Suspended floors, roofs, landings, balconies and access platform.	Sqm.	10.75	667.00	7167.58
5	Providing & Fixing Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	qtl.	1.90	7702.00	14633.80
6	12mm cement plaster on rough side of single or half brick wall mix 1:3 (1 cement : 3 Coarse sand)	Sqm	46.16	316.00	14586.56
7	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	Nos.	10.00	392.00	3920.00
8	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	No.	1.00	843.00	843.00
9	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 300mm dia bore hole manually.	M	15.00	594.00	8910.00
10	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. 150 mm nominal size dia	M	15.00	581.00	8715.00

11	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.	cum	12.13	1086.00	13173.18
12	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.	cum	13.11	1106.00	14499.66
13	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.	cum	13.11	1106.00	14499.66
14	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.	Cum	1.00	1456.00	1456.00
DESILTING CHAMBER					
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 50m and lift upto 1.5 m, as directed by Engineer-in-charge.				
(a)	In all kind of soil upto 1.5m depth	Cum	10.05	128.00	1286.40
(b)	In all kind of soil upto 1.5m to 3.0m. depth	Cum	4.06	219.00	889.14
2	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.	Cum	1.04	5666.00	5892.64
3	Class M-150 brick work in 1:4 cement coarse sand mortar in foundation & plinth including supply of all materials, labour, tools and plants etc. required for proper completion of the work.	Cum	3.52	5301.00	18659.52
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	Cum	1.38	6505.00	8976.90
4,a	Suspended floors, roofs, landings, balconies and access platform.	Sqm.	7.27	667.00	4849.09
5	Providing & Fixing Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	QTL	1.63	7702.00	12554.26
6	12mm cement plaster on rough side of single or half brick wall mix 1:3 (1 cement : 3 Coarse sand)	Sqm	17.60	316.00	5561.60
7	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	Nos.	12.00	392.00	4704.00
8	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	No.	2.00	843.00	1686.00
II DRAINAGE NETWORK					

1	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	up to 1.50 m depth				
	Pipes 80 mm to 300 mm diameter	metre	55	253.00	13915.00
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	metre	55	400.00	22000.00
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.	metre	55	534.00	29370.00
4	Constructing brick masonry INSPECTION chamber 60x60x75 cm with bricks of class designation 50 in cement mortar 1:4 (1 cement : 4 coarse sand) including CI cover with frame LIGHT WEIGHT complete as per design. With FPS bricks	Nos.	4.00	6863.00	27452.00
				TOTAL	424507.55

PROJECT: DETAILED ESTIMATE OF PROPOSED COMMUNITY KENNEL					
[ANALYSIS FOR 3 NOS. KENNELS]					
ABSTRACT OF COST					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
[A]	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	300mm Dia Pile	450.000	RM.	2205.00	992250.00
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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
(a)	Excavation up to 1.50 mt. depth	59.70	CUM	187.00	11163.25
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.		CUM	504.00	
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete, excluding cost of form- work,in foundation and floors.	27.15	CUM	4899.00	132987.44
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	19.10	CUM	1527.00	29165.70
5	Treatment of soil under existing floors using chemical emul sion @ 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 Chlorpyriphos/Lindane E.C. 20% with 1% concentration	218.37	SQM	223.00	48695.77
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)				
	R.C.C. Work in Plinth band	16.10	CUM	6506.00	104746.60
7	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) - LINTEL & REAM				
(a)	Up to plinth level	1.33	CUM	6506.00	8674.67
(b)	Above plinth level	7.77	CUM	8275.00	64269.17
8	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)				
	R.C.C. Work in Footing	14.33	CUM	6506.00	93252.67
9	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) - Column				
(a)	Up to plinth level	0.78	CUM	6506.00	5074.68
(b)	Above plinth level	6.90	CUM	7508.00	51805.20

10	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) - Slab	27.30	CUM	8275.00	225907.50
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	115.53	QTL	7757.00	896164.07
12	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)	12.47	CUM	5129.00	63941.53
13	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	10.70	SQM	295.00	3156.50
14	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	10.70	SQM	105.00	1123.50
15	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)	23.83	CUM	6549.00	156084.50
16	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	229.03	SQM	284.00	65045.47
17	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	365.67	SQM	247.00	90319.67
18	Distempering (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	419.93	SQM	134.00	56271.07
19	Finishing wall with water proof cement paint of approved make and quality on new wood with two coat to give an even shade including supply of all materials, labour, tools and plant etc. required for proper completion of the work. (Two Coat)	365.67	SQM	84.00	30716.00
20	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.	4822.80	KG	124.00	598027.20
21	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	353.40	Sqm	163.00	57604.20
22	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	190.90	SQM	442.00	84377.80
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.18 mm thick	26.70	SQM	476.00	12709.20

24	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.40 mm wide and 4 mm thick	668.17	RM	66.00	44099.00
25	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	35.17	RM	323.00	11358.83
26	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.	209.400	SQM	1212.00	253792.80
27	Centering and shuttering including strutting, propping etc. and removal of form for:				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	190.29	SQM	530.00	100853.70
(b)	Foundations, footings, bases of columns, etc. for mass concrete	70.000	SQM	282.00	19740.00
(c)	Columns, Pillars, Piers, Abutments, Posts and Struts	102.400	SQM	691.00	70758.40
(d)	Suspended floors, roofs, landings, balconies and access platform.	218.383	SQM	667.00	145661.24
				TOTAL	4529797.31

#REF!					
Plumbing Work					
Sr. No.	Description	Unit	Qty	RATE	Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS					
1	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	Each	10	575.00	5750.00
2.0 SUB HEAD-II-WATER SUPPLY					
1	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	20 mm nominal bore	Metre	15	265.00	3975.00
	25 mm nominal bore	Metre	15	336.00	5040.00
	32 mm nominal bore	Metre	25	389.00	9725.00
	40 mm nominal bore	Metre	15	444.00	6660.00
2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	20 mm nominal bore	Each	1	388.00	388.00
	25 mm nominal bore	Each	1	448.00	448.00
	32 mm nominal bore	Each	1	496.00	496.00
	40 mm nominal bore	Each	1	594.00	594.00
3	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	2	1433.00	2866.00
4	Constructing masonry Chamber 60x60x75 cm inside , in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			0.00	
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	7812.00	15624.00
SUB HEAD : III - ROOFING					
1	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 dia (for rain water)	Metre	20	271.00	5420.00
2	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.				
	Single Push Fit Coupler				
	110 mm dia	Each	7	92.00	613.33
	Single tee with door				
	110x110x110 mm	Each	5	168.00	840.00
	Plain bend 87.5 deg				
	110 mm dia	Each	10	108.00	1080.00
3	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 dia	Each	10	267.00	2670.00
4	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 x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.				
		Each	5	214.00	1070.00
				TOTAL	63259.33

SCHEDULE OF QUANTITIES OF ELECTRICAL WORKS FOR					
PROPOSED COMMUNITY KENNEL AT PASHU PRAJNAN NIYANTRAN KENDRA AT HARDOI UTTAR PRADESH					
S.NO.	DESCRIPTION OF ITEM	Total QTY	UNIT	RATE	AMOUNT
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	20	Point	1222.00	24440
2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	14	Point	713.00	9982
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	38	Metre	192.00	7238
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	3	Metre	223.00	558
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	20	Metre	268.00	5360
	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	10	Metre	583.00	5830
	4 x 10 sq.mm + 2 x 6 sq.mm. earth wire	10	Metre	773.00	7730
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	1	Each	391.00	391
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	2	Each	473.00	946
7	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	1	Each	34.00	34
8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	5/6 A switch	1	Each	87.00	87
	3 pin 5/6 A socket outlet	1	Each	98.00	98
9	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	24	Each	75.00	1800

10	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	10	Each	209.00	2090
11	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	2	Each	38.00	76
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
12	LED Batten light (System lumen efficacy >135 lm/Watt) Supplying, installation, testing & commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast / Extruded aluminium				
	18- 22 Watt	13	Each	564.00	7332
13	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc.Including connection with 1.5 sqmm FRLS PVC insulated copper conductor as required.	10	Each	2318.00	23180

14	Brush Less Direct Current (BLDC) Fan with Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.	1	Each	1933.00	1933
					-
15	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				-
	300mm EXHAUST FAN	1	Each	3326.00	3326
	SUBHEAD- III: DISTRIBUTION BOARD				-
					-
16	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				-
	6 way Double door	1	Nos.	3801.00	3801
					-
17	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required				-
	40 amps 4P MCB	1	Each	3462.00	3462
					-
	25 amps	3	Nos	1536.00	4608
					-
18	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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	12	Nos.	204.00	2448
					-
19	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	1	Each	10.00	12
					-
20	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.				-
	90 mm dia (OD-90 mm & ID-76 mm nominal)	30	Metre	131.00	3930
	TOTAL			TOTAL	120691.90

PROJECT: DETAILED ESTIMATE OF PROPOSED SINGLE KENNEL					
[ANALYSIS FOR 5 NO. KENNELS]					
ABSTRACT OF COST					
(Based on DSR - 2023)					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
[A]	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	300mm Dia Pile	243.000	RM.	2205.00	535815.00
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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
(a)	Excavation up to 1.50 mt. depth	21.15	CUM	187.00	3954.71
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.		CUM	530.00	
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete, excluding cost of form- work in foundation and floors.	10.08	CUM	4899.00	49381.92
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	6.03	CUM	1527.00	9207.81
5	Treatment of soil under existing floors using chemical emul sion @ 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.	76.59	SQM	223.00	17079.57
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)	9.66	CUM	6506.00	62847.96
	R.C.C. Work in Plinth band				
7	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)				
(a)	Up to plinth level	1.47	CUM	6506.00	9563.82
(b)	Above plinth level	4.98	CUM	8275.00	41209.50
8	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) (Slab)	10.44	CUM	8275.00	86391.00

9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	33.51	QTL	7757.00	259937.07
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)	7.29	CUM	5129.00	37390.41
11	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	13.71	SQM	295.00	4044.45
12	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	13.71	SQM	105.00	1439.55
13	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)	33.78	CUM	6549.00	221225.22
14	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	204.45	SQM	284.00	58063.80
15	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	193.20	SQM	247.00	47720.40
16	Distempering (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	204.45	SQM	134.00	27396.30
17	Finishing wall with water proof cement paint of approved make and quality on new wood with two coat to give an even shade including supply of all materials, labour, tools and plant etc. required for proper completion of the work. (Two Coat)	193.20	SQM	84.00	16228.80
18	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.	2787.42	KG	124.00	345640.08
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	191.37	SQM	163.00	31193.31
20	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	60.21	SQM	442.00	26612.82
21	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	17.97	SQM	476.00	8553.72
22	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick	210.75	RM	66.00	13909.50
23	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	19.92	RM	323.00	6434.16

24	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.	76.60	SQM	1212.00	92844.53
25	Centering and shuttering including strutting, propping etc. and removal of form for:				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	122.68	SQM	530.00	65019.87
(b)	Suspended floors, roofs, landings, balconies and access platform.	83.660	SQM	667.00	55801.49
				TOTAL	2134906.77

SCHEDULE OF QUANTITIES OF ELECTRICAL WORKS FOR					
PROPOSED SINGLE KENNEL AT PASHU PRAJNAN NIYANTRAN KENDRA AT HARDOI UTTAR PRADESH.					
S.NO.	DESCRIPTION OF ITEM	Total QTY.	UNIT	RATE	AMOUNT
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	6	Point	1222.00	7332
2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	15	Point	713.00	10695
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	24	Metre	192.00	4608
	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	18	Metre	583.00	10494
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
4	LED Down lighter (SMD Type) (System lumen efficacy >135lm/Watt)				
	Supplying, installation, testing & Commissioning of LED Recessed/surface Down lighter (Round /square/Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P.F.>0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K/ 4000°K /5700°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C)				

	8-10 watt	15	Each	471.00	7065.00
5	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc.Including connection with 1.5 sqmm FRLS PVC insulated copper conductor as required.	6	Each	2318.00	13908.00
				TOTAL	54102.00

DETAILED ESTIMATE OF PROPOSED KITCHEN					
ABSTRACT OF COST					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
[A]	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	300mm Dia Pile	54.000	RM.	2205.00	119070.00
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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
(a)	Excavation up to 1.50 mt. depth	5.58	CUM	187.00	1043.21
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.		CUM	504.00	
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete, excluding cost of form- work,in foundation and floors.	2.21	CUM	4899.00	10826.79
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1.48	CUM	1527.00	2259.96
5	Treatment of soil under existing floors using chemical emul sion @ 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 Chlorpyriphos/Lindane E.C. 20% with 1% concentration	17.66	SQM	223.00	3938.18
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)				
	R.C.C. Work in Plinth band	1.61	CUM	6506.00	10474.66
7	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) - LINTEL & BEAM				
(a)	Up to plinth level	0.31	CUM	6506.00	2016.86
(b)	Above plinth level	0.81	CUM	8275.00	6702.75
8	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)				
	R.C.C. Work in Footing	1.08	CUM	6506.00	6993.95
9	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) - Column				
(a)	Up to plinth level	0.06	CUM	6506.00	380.60
(b)	Above plinth level	0.54	CUM	7805.00	4214.70

10	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) - Slab	2.77	CUM	8275.00	22921.75
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	11.98	QTL	7757.00	92956.53
12	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)	1.15	CUM	5129.00	5898.35
13	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	2.17	SQM	295.00	640.15
14	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	2.17	SQM	105.00	227.85
15	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)	6.76	CUM	6549.00	44271.24
16	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	37.94	SQM	284.00	10774.96
17	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	48.34	SQM	247.00	11939.98
18	Distemping (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	52.72	SQM	134.00	7064.48
19	Finishing wall with water proof cement paint of approved make and quality on new wood with two coat to give an even shade including supply of all materials, labour, tools and plant etc. required for proper completion of the work. (Two Coat)	48.34	SQM	84.00	4060.56
20	M.S. work				
(a)	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)	2.000	KG	102.00	204.00
(b)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. Flats, square or round bars etc. all complete. Fixed to Steel windows by welding	22.680	KG	158.00	3583.44

(c)	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).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)	24.300	KG	94.00	2284.20
(d)	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	13.520	KG	102.00	1379.04
21	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) 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. Single leaf.	2.100	SQM	1721.00	3614.10
22	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	2.88	Sqm	163.00	469.44
23	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	14.78	SQM	442.00	6532.76
24	Wooden Painting:				
	Applying priming coat: With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood.	4.200	SQM	54.00	226.80
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	4.200	SQM	1008.00	4233.60
25	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	2.100	SQM	766.00	1608.60
26	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	2.21	SQM	476.00	1051.96
27	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.40 mm wide and 4 mm thick	51.73	RM	66.00	3414.18
28	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	2.85	RM	323.00	920.55

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. 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.	13.850	SQM	1212.00	16786.20
30	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :. (a) 250mm x 16mm .	1.000	NOS	139.00	139.00
31	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	(a) 250 mm x 10mm	1.000	NOS	60.00	60.00
32	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete (a) 125 mm				
	(a) 125mm	2.000	NOS	29.00	58.00
33	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 @ 3.3k9 per sqm, Including pointing in white cement mixed with pigment of matching shade complete.	6.060	SQM	912.00	5526.72
34	Providing and fixing 18 mm thick (Granite) gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanitycounters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cementmortar 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.Area of slab over 0.50 sqm	4.620	SQM	3694.00	17066.28
35	Centering and shuttering including strutting, propping etc. and removal of form for:				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	18.29	SQM	530.00	9695.82

b)	Foundations, footings, bases of columns, etc. for mass concrete	5.250	SQM	282.00	1480.50
c)	Columns, Pillars, Piers, Abutments, Posts and Struts	7.980	SQM	691.00	5514.18
d)	Suspended floors, roofs, landings, balconies and access platform.	25.958	SQM	667.00	17313.82
				TOTAL	471840.70
36	Add cost of Internal w/s & sanitation works				20368.67
37	Add cost of Internal electrification works				36747.00
				G. TOTAL	528956.37
					5.29

Plumbing Work						
Sr. No.	DSR 2023 Code/ NSR	Description	Unit	Qty	RATE	Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS						
1	17.10	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required				
	17.10.1	Kitchen sink with drain board				
	17.10.1.3	510x1040 mm bowl depth 200 mm	Each	1	5148.00	5148.00
2	17.28	Providing & fixing PVC waste pipe for sink including PVC waste fittings Complete				
	17.28.2	Flexible Pipe				
	17.28.2.1	32mm Dia	Each	1	86.00	86.00
3	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	18.51.1	15mm nominal bore	Each	1	575.00	575.00
2.0 SUB HEAD-II-WATER SUPPLY						
1	18.12	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	18.12.2	20 mm nominal bore	Metre	10	265.00	2650.00
2	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	18.17.1A	20 mm nominal bore	Each	1	388.00	388.00
3	18.32	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	1	1433.00	1433.00
SUB HEAD : III - ROOFING						
1	12.41	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 dia (for rain water)	Metre	4	271.00	1084.00
2	12.42	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.				
	12.42.2	Single Push Fit Coupler				
	12.42.2.2	110 mm dia	Each	1	92.00	122.67
	12.42.3	Single tee with door				
	12.42.3.2	110x110x110 mm	Each	1	168.00	168.00
	12.42.5	Plain bend 87.5 deg				
	12.42.5.2	110 mm dia	Each	2	108.00	216.00
3	12.43	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.				
	12.43.2	110 mm dia	Each	2	267.00	534.00
4	12.22	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 x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.				
			Each	1	214.00	214.00
SUB HEAD : IV - INTERNAL DRAINAGE						
1	NSR	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes.				
		Internal Toilet (Soil & Waste Pipe)				
	NSR	75 mm	Metre	6	480.00	2880.00

2	NSR	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion.				
	NSR	Bend without door (45°)				
		75mm	Each	1	128.00	128.00
	NSR	Single Tee with door				
		75mm	Each	1	242.00	242.00
	NSR	Bend with door (87.5°)				
		75mm	Each	1	176.00	176.00
	NSR	Reduced Tee with door				
		110mm x 75mm	Each	1	352.00	352.00
	NSR	Coupler				
		75mm	Each	1	133.00	133.00
3	NSR	Providing, fixing, jointing and testing , of PVC Nahani Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.				
	NSR	110mm x 75mm (Toilet & Kitchen)	Each	1	1093.00	1093.00
4	18.58	Providing and fixing PTMT grating of approved quality and colour.				
	18.58.2	Rectangular type with openable circular lid				
	18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	Each	1	142.00	142.00
5	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.4.2	150 x 100mm size P-type				
	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1	1966.00	1966.00
6	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:				
	19.1.1	100 mm diameter	Metre	2	319.00	638.00
					TOTAL	20368.67

SCHEDULE OF QUANTITIES OF ELECTRICAL WORKS FOR					
PROPOSED KITCHEN AT PASHU PRAJNAN NIYANTRAN KENDRA AT HARDOI UTTAR PRADESH					
S.NO.	DESCRIPTION OF ITEM	QTY	UNIT	RATE	AMOUNT
SUB-HEAD - I : INTERNAL WIRING					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	2	Point	1222.00	2444
2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	1	Point	713.00	713
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	30	Metre	192.00	5760
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	25	Metre	223.00	5575
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	60	Metre	268.00	16080
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	1	Each	391.00	391
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	2	Each	473.00	946
6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	5/6 A switch	1	Each	87.00	87
	3 pin 5/6 A socket outlet	1	Each	98.00	98
7	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	3	Each	75.00	225
SUB-HEAD II - FANS & LIGHT FIXTURES:					
8	LED Batten light (System lumen efficacy >135 lm/Watt)				

	<p>Supplying, installation, testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).</p> <p>Powder coated die cast /Extruded aluminium</p>				
	18- 22 Watt	2	Each	564.00	1128
					-
9	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				-
	300mm EXHAUST FAN	1	Each	3300.00	3300
				TOTAL	36747.00
					-
					-

BILL OF QUANTITY OF PROPOSED ELECTRICAL ROOM					
(SIZE 3.00 X 4.00 MT)					
ABSTRACT OF COST					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
[A]	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap)				
	300mm Dia Pile	36.000	RM.	2205.00	79380.00
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 for all lift as directed by Engineer-in-charge. All kinds of soil				
(a)	Excavation up to 1.50 mt. depth	2.64	CUM	187.00	492.80
2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	2.51	CUM	504.00	1264.80
3	Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including lead up to 50m and lift upto 1.5m and including cost of sand.	1.200	CUM	1527.00	1832.40
4	Providing and laying cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded Stone aggregate 40 mm nominal size) including supply of all materials, labour T & P etc required for proper completion of the work and curing complete also include cost of formwork in foundation & floors.	2.380	CUM	4899.00	11657.70
5	Diluting and injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	Treatment of soil under floors using chemical emul sion @ 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 floor: With Chlorpyrinhos/Lindane E.C. 20% with 1% concentration	15.432	SQM	223.00	3441.20
	Treatment of masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole,With Chlorpyrinhos/Lindane E.C. 20% with 1% concentration	15.432	SQM	31.00	478.40
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 de rived from natural sources) (I intel band)	0.429	CUM	8275.00	3549.60
7	As in item no. 6 above but for slabs (Using 1:1.5:3 Mix concrete)	3.415	CUM	8275.00	28262.80
8	As in item 6 but for the Plinth band i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete)	1.318	CUM	6506.00	8572.30
9	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)	1.381	CUM	5129.00	7080.90
10	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)	13.357	CUM	6549.00	87473.60
11	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class -150 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)		SQM.	808.00	
12	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	2.972	SQM	295.00	876.60
13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in	2.972	SQM	105.00	312.00
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	12.920	SQM	1212.00	15659.00

15	M.S. or Iron work of small sizes and sections such as holding down bolts, hold fast tie rods, gratings etc. wrought to required from including supply of steel bolts, nuts wastage etc and fixing required for proper completion of the work.				
(a)	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 70 mm nominal size)	2.40	KG	102.00	244.80
(b)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. Flats, square or round bars etc. all complete. Fixed to Steel windows by welding	32.18	KG	158.00	5083.70
(c)	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). 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	37.13	KG	94.00	3489.80
(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 70 mm nominal size)		KG	102.00	
16	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	7.582	QTL	7757.00	58815.10
17	Providing & fixing ISI marked flush door shutters conforming IS: 2202 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) 35mm thick including ISI marked stainless steel butt hinges with necessary screws		SQM	1721.00	
18	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	4.476	SQM	296.00	1324.90
19	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	90.900	SQM	247.00	22452.30
20	15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)	45.275	SQM	284.00	12858.10
21	6mm thick plaster in 1:3 on ceiling and soffits of stairs upto floor two level.				
22	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	15.150	SQM	442.00	6696.30
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. 18 mm thick	2.10	SQM	476.00	999.60
24	Extra for making chequers of approved pattern on cement concrete floors, steps, landings, pavements etc.	3.15	SQM	60.00	189.00
25	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12-20mm nominal size laid in one layer neat cement (25 mm thick floor). (Apron floor)	10.944	SQM	323.00	3534.91
26	Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works. (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	7.575	SQM	48.00	363.60
		7.575	SQM	163.00	1234.70
27	Wooden Painting: Applying priming coat: With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood. (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.		SQM	54.00	
			SQM	163.00	
28	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 250x16 mm		NOS	139.00	
29	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : (a) 250 mm x 10mm (a) 200 mm x 10mm		NOS	60.00	
			NOS	50.00	
30	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 125 mm		NOS	29.00	
31	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	90.900	SQM	123.00	11180.70
32	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work (Inner walls & Ceiling)	69.383	SQM	134.00	9297.30

33	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.	160.283	SQM	112.00	17951.70
34	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	2.475	SQM	766.00	1895.90
35	Providing and fixing glass strips of 3.7mm thickness & 35 mm wide in joints of floor and skirting at the time of laying floors flush with floor level including labour, tools plants etc complete.	53.025	RM	66.00	3499.70
36	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for 80x1.25 mm M.S. laths with 1.25 mm thick top cover	5.100	SQM	2627.00	13397.70
37	Providing and fixing ball bearing for rolling shutters.	2.000	EACH	354.00	708.00
38	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Suspended floors, roofs, landings, balconies and access platform.	27.540	SQM	667.00	18368.90
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	12.514	SQM	530.00	6632.40
				TOTAL	450553.21
39	Add cost of electrical works				24219.00
				G.TOTAL	474772.21
				4.75	Lacs.

SCHEDULE OF QUANTITIES OF ELECTRICAL WORKS FOR					
PROPOSED ELECTRICAL ROOM AT PASHU PRAJNAN NIYANTRAN KENDRA AT HARDOI UTTAR PRADESH.					
S.NO.	DESCRIPTION OF ITEM	Total QTY	UNIT	RATE	AMOUNT
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	2	Point	1222.00	2444
2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	2	Point	713.00	1426
6					
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	12	Metre	192.00	2304
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	20	Metre	223.00	4460
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	26	Metre	268.00	6968
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	1	Each	391.00	391
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	1	Each	473.00	473
6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	5/6 A switch	2	Each	87.00	174
	3 pin 5/6 A socket outlet	2	Each	98.00	196
7	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	2	Each	75.00	150
8	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	2	Each	108.00	216

SUB-HEAD II - FANS & LIGHT FIXTURES:					
9	LED Batten light (System lumen efficacy >135 lm/Watt)				
	Supplying, installation, testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast / Extruded aluminium				
	18- 22 Watt	3	Each	564.00	1692
					-
10	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				-
	300mm EXHAUST FAN	1	Each	3325.00	3325
	TOTAL				24219.00
					-

BILL OF QUANTITY OF PROPOSED PROPOSED WASHING BAY					
[ABSTRACT OF COST]					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
1	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded Stone aggregate 40 mm nominal size) and curing complete,including cost of form- work in foundation and floors.	6.62	CUM	4654.00	30828.10
2	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	44.160	SQM	442.00	19518.72
3	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	44.160	SQM	60.00	2649.60
				TOTAL	52996.42
				0.53	Lacs.

(COST OF EXTERNAL RAIN WATER HARVESTING WORKS)					
S.N.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
I	DRAINAGE NETWORK				
1	Constructing brick masonry open surface drain with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including earth excavation, 10cm thick bed concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and 25mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) for filling haunches including 12mm cement plaster 1:4 (1 cement : 4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per standard design:				
	Drain 300 wide average. Depth 45 cm with R.C.C. slab	metre	235.00	3400.00	799000.00
				TOTAL	799000.00

(COST OF EXTERNAL SEWERAGE (SEPTIC TANK) WORKS)					
S.N.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
I	SEPTIC TANK & SOAK PIT				
	Size :- Length = 2.30 M. Width = 1.1M Total Depth =3.00M				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width aswell as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-incharge.				
	In all kind of soil upto 1.5m depth	Cum	11.86	128.00	1518.41
	In all kind of soil upto 1.5m to 3.0m. depth	Cum	9.11	219.00	1994.25
2	Providing and laying of cement concrete in base excluding the cost of centring and shuttering by 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	Cum	1.14	5666.00	6445.98
3	Brick work with brick of class designation 150 in foundation and plinth in cement mortar (1 cement : 4 coarse sand)	Cum	7.63	5301.00	40460.02
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	Cum	1.05	6505.00	6803.03
4,a	Suspended floors, roofs, landings, balconies and access platform.	Sqm.	6.97	667.00	4650.39
5	P/F Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	QTL.	0.82	7702.00	6315.64
6	12mm cement plaster on rough side of mix 1:3 (1 cement : 3 coarse sand)	Sqm	24.02	316.00	7590.16
7	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.	Nos.	10	392.00	3920.00
8	Providing and fixing C.I. tee at the inlet and outlet of septic tank.	Nos.	2	447.00	894.00
9	Providing & fixing 75mm dia vent pipes.	Rm.	1	751.00	751.00
10	Providing & fixing of 75mm dia cast iron terminal guard.	No.	1	245.00	245.00
11	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	No.	2	843.00	1686.00
	M.D. -2.5- Circular shape 450mm internal diameter	No.	4	841.00	3364.00
12	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	No.	1	19318.00	19318.00

				TOTAL	105955.88
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(COST OF EXTERNAL SEWERAGE (SEPTIC TANK) WORKS)

S.N.	DESCRIPTION	UNIT	QTY.	RATE
I	SEPTIC TANK & SOAK PIT			
	Size :- Length = 2.30 M. Width = 1.1M Total Depth =3.00M			
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width aswell as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-incharge.			
	In all kind of soil upto 1.5m depth	Cum	47.38	128.00
	In all kind of soil upto 1.5m to 3.0m. depth	Cum	45.09	210.00
	In all kind of soil upto 1.5m to 3.0m. depth	Cum	12.02	219.00
2	Providing and laying of cement concrete in base excluding the cost of centring and shuttering by 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)			
		Cum	4.68	5666.00
3	Brick work with brick of class designation 150 in foundation and plinth in cement mortar (1 cement : 4 coarse sand)			
		Cum	19.51	5301.00
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.			
		Cum	3.98	6505.00
4,a	Suspended floors, roofs, landings, balconies and access platform.			
		Sqm.	26.52	667.00
5	P/F Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.			
		QTL.	3.12	7702.00

6	12mm cement plaster on rough side of mix 1:3 (1 cement : 3 coarse sand)	Sqm	3.12	316.00
7	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.	Nos.	82.60	392.00
8	Providing and fixing C.I. tee at the inlet and outlet of septic tank.	Nos.	12	447.00
9	Providing & fixing 75mm dia vent pipes.	Rm.	2	751.00
10	Providing & fixing of 75mm dia cast iron terminal guard.	No.	1	245.00
11	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	No.	1	843.00
	M.D. -2.5- Circular shape 450mm internal diameter	No.	4	841.00
12	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	No.	2	19318.00
				TOTAL

AMOUNT
6064.20
9468.71
2632.38
26516.88
103422.51
25889.90
17688.84
24030.24

985.92
32378.22
5364.00
1502.00
245.00
843.00
3364.00
38636.00
299031.80

PROJECT :- DETAILED ESTIMATE OF PROPOSED CHAIN LINK FENCING					
AT DISTRICT - AMETHI (U.P.)					
[ABSTRACT OF COST - CHAIN LINK FENCING]					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
1	Excavation in foundations in ordinary soil (Loam clay or sand) including lift upto 1.5 m (5 fts.) and lead upto 30 mt. (100 fts.) & including filling, watering and ramming of excavated earth into the trenches or into the space between the building and the sides of foundation trenches or into the plinth and removal and disposal of surplus earth as directed by the Engineer-Incharges upto a distance of 30mt. (100 fts) from the foundation trenches.	16.28	CUM	129.00	2100.02
2	Providing and laying cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded Stone aggregate 40 mm nominal size) including supply of all materials, labour T & P rtc required for proper completion of the work and curing complete also including cost of formwork in foundation & floors.	6.28	CUM	4945.00	31070.42
3	Class M-150 brick work in 1:4 cement coarse sand (of 2.25 fineness modulus) mortar in foundation & plinth including supply of all materials, labour, tools and plants etc. required for proper completion of the work.	6.57	CUM	5350.00	35143.08
4	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	100.91	SQM	299.00	30172.69
5	Providing & laying cement concrete in 1:1.5:3 of not less than strength of M - 150 stone ballast (20 mm nominal size) approved coarse sand and cement, curing complete, including cost of form work. In foundation & floors.	12.14	CUM	6055.00	73495.59
6	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	3915.89	KG	91.00	356346.29
7	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	661.64	SQM	124.00	82043.36
8	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm	552.16	SQM	739.00	408046.24
9	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	100.91	SQM	85.00	8577.52
10	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundations, footings, bases of columns, etc. for mass concrete.	161.84	SQM	285.00	46124.40
11	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)	230.07	R.M.	273.00	62808.20
				TOTAL	1135927.81

BILL OF QUANTITY FOR PROPOSED ENTRANCE GATE					
S.NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
1	Earth work in excavation in trenches for foundations and for pipes cables etc. in ordinary soil(loan clay or sand) including lift upto 1.5 m and dressing of sides and ramming of bottom sand disposal of surplus excavated earth as directed by the Engineer i/c with in a lead of 50m.				
(a)	Excavation up to 1.50 mt. depth	1.080	CUM	180.00	194.40
2	Providing and laying in cement concrete 1:4:8 (1 cement :4 fine sand :8 graded stone ballast 40 mm nominal size) and curing complete, including cost of form-work,in foundation and floors.	0.270	CUM	4899.00	1322.73
3	R.c.c. work with cement approved coarse sand and 2 cm. (3/4") guage approved stone ballast in the proportion 1:1.5:3 in R.C.C. Footing excluding supply of reinforcement and its fixing and binding the same with 24 BWG binding wire and excluding necessary centering and shuttering etc.and also including supply of all materials, labour and tools and plants etc.required for proper completion of the works.strength of the concrete shall not be less than M-200.		CUM	6506.00	
4	R.c.c. work with cement approved coarse sand and 2 cm. (3/4") guage approved stone ballast in the proportion 1:1.5:3 in Beam excluding supply of reinforcement and its fixing and binding the same with 24 BWG binding wire and excluding necessary centering and shuttering etc.and also including supply of all materials, labour and tools and plants etc.required for proper completion of the works.strength of the concrete shall not be less than M-200. Up to plinth lvl.	0.567	CUM	6506.00	3688.90
5	As in item 3 above but in R.C.C. columns in 1:1.5:3 having strength not less than M-150. Up to plinth lvl. Above plinth lvl.	0.432	CUM	7805.00	3371.76
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	2.622	QTL.	7757.00	20338.29
7	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	5.760	SQM	247.00	1422.72
8	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	5.760	SQM	123.00	708.48
9	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.	5.760	SQM	112.00	645.12
10	Steel Painting: Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	28.800	SQM	163.00	4694.40
11	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	720.000	KG	140.00	100800.00
12	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Foundations, footings, bases of columns, etc. for mass concrete.		SQM.	282.00	
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	3.78	SQM.	530.00	2003.40
(c)	Columns, Pillars, Piers, Abutments, Posts and Struts .	5.76	SQM.	693.00	3991.68
				TOTAL	143181.89

[HORTICULTURE WORK]					
ABSTRACT OF COST-DSR-2025X 0.755 X 0.97 x 107/107					
S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATES	AMOUNT
EFFECTIVE RATE					
1	Supplying and stacking of sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment)	175.50	CUM	321.00	56335.50
2	Carrigae of sludge upto 5 K.M.	175.50	CUM	181.00	31765.50
3	Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) : Screened through sieve of I.S. designation 4.75 mm	29.25	CUM	366.00	10705.50
4	Carrigae of manure upto 5 K.M.	29.25	CUM	181.00	5294.25
5	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge.	204.75	CUM	41.00	8394.75
6	Spreading of sludge, dump manure or/and good earth in required thickness (cost of sludge dump manure or/and good earth to be paid separately).	204.75	CUM	59.00	12080.25
7	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing, including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately).				
	Holes 1.2 m dia and 1.2 m deep	50.00	NO.	270.00	13500.00
8	Providing & stacking of Phoenix sylvestris Roxb. (Wild date palm/khajur) of height 150-165 cm. in Big HDPE Bag as per direction of the officer-in-charge.	30.00	EACH	524.00	15720.00
9	Providing & stacking of Pinus longifolia (Pinus) of height 90-105 cm. in cement pots of size 35cm as per direction of the officer-in-charge.	20.00	EACH	444.00	8880.00
10	Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately). With grass Turf.	585.00	Sqm	15.00	8775.00
				TOTAL	171450.75

PROPOSED PASHU PRAJNAN NIYANTRAN KENDRA AT MAHARAJGANJ, UTTAR PRADESH

CONSTRUCTION OF TUBE WELL					
SR. NO.	ITEM OF WORK	UNIT	QTY.	RATE	AMOUNT
1	Drilling of 200 mm dia bore hole.	metre	50.00	570.00	28500.00
2	Supply of 125 mm dia MS pipe as per IS1239	metre	40.00	1520.00	60800.00
3	Supply of 125 mm dia slotted MS pipe	metre	10.00	1710.00	17100.00
4	Supply and fixing of nylon jali around the slotted pipes complete as required.	Job	1.00	4750.00	4750.00
5	Providing and packing of coarse sand / pea gravel around the pipe.	job	1.00	5700.00	5700.00
6	Transport of boring tools other required equipments and installation at site.	Job	1.00	47500.00	47500.00
7	Supply of submersible pump (3.7KW/5.0 HP) of make KSB (Cora) for 200 lit/min discharge at 50 meter head with control panel, support wire etc complete.	Set	1.00	61750.00	61750.00
8	Providing 3 core PVC insulated submersible cable. (from pump panel to submersible pump)	metre	40.00	95.00	3800.00
9	Providing and fixing 65 mm dia. G.I. pipe complete with fittings and clamps including cutting and making good the wall etc. (from submersible pump to ground level)	metre	40.00	252.00	10080.00
10	Providing and fixing 65 mm dia. brass gate valve with CI wheel of approved quality.	No	1.00	1226.00	1226.00
11	Lowering of 125 mm dia MS pipe in bore hole including cutting, jointing etc complete.	metre	50.00	143.00	7150.00
12	Supply and fixing of tube well accessories i.e. well cap, clips, clamps, etc. to complete the job in all respect.	Job	1.00	9500.00	9500.00
13	Fixing, testing and commissioning for erection and lowering of submersible pump, 65 mm dia GI column pipe, 3 core submersible copper cable upto the control panel, supporting clamps, cable clips, pressure gauge, connection line and all other accessories required for the proper completion of the work	Job	1.00	14250.00	14250.00
14	Testing and development of tube well.	Job	1.00	4750.00	4750.00
TOTAL COST OF TUBEWELL					276856.00

SCHEDULE OF QUANTITIES OF ELECTRICAL WORKS FOR

EXTERNAL ELECTRIFICATION FOR PROPOSED PASHU PRAJNAN NIYANTRAN KENDRA AT HARDOI UTTAR PRADESH.

S.NO.	DESCRIPTION OF ITEM	Total QTY.	UNIT	RATE	AMOUNT
	SUBHEAD- I: M.V. PANELS				
1	Supply & Erection of factory fabricated & wired metal clad dust and vermin proof mounting, M.S Channel Base with botom and top cable entreis Electrical control panel with TPN ACB (65KA, 4 Pole Elect draw out Micor Processer Release IPR2) and TPN MCCB's (four Pole 36 KA with thermal magnatic release) switches and instrument chamber etc. complete in all respect. The instrument chamber shall be separate and shall comprise of flush type/digital ammeter Voltmeter, Selector switches for ammeter and Voltmeter, instrument fuses current transformer etc. The Board shall have suitable capacity electrolytic aluminium busbars as per IS8623 insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/DMC support with deteachable side covers and shall be suitable for extension on the sides. The switches enty boxes shall be complete with suitable cable end boxes reverse. The job includes the grounting of the board as per directions of Engineer-in-charge. All out goings of 100 Amp. and above will be provided with Amp. Metre, curent transformer and selector switches etc. and insurment fuse The switch board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubical type switch board shall be of cat A & B only.				
i	MAIN LT PANEL				
	INCOMING				
	1No. Of 160 Amps FP MCCB of 25KA breaking capacity				
	Metering :				
	1 Set of CT's one of 160/ 5Amp ratio for Multifunction Meter				
	One (1) Set of Phase Indication Lamp.				
	BUS BAR				
	1 Set of 200 Amps TPN Aluminium Bus Bars				
	OUTCOMING				
	125 Amps FP MCCB of 25KA - 2 No(1 OUTGOING+SPARE)				
	63 Amps FP MCCB of 25KA - 2 No(1 OUTGOING+SPARE)				
	40 Amps FP MCCB of 25KA - 1 No(1 OUTGOING)				
	Panel described as above	1	Set	68,875.00	68875.00
	SUB-HEAD -II : L.T. CABLES				
2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required				
	Above 95 sq.mm. and upto 185 sq.mm.	78	Meter	70.00	5460.00
3	Supply of following siz of 1.1KV grade multicore aluminium conductor XLPE insulated and PVC shethed armoured cable as per IS 7098:1988 with up to date amendment				
	3.5 x 95 sq.mm	78	Metre	1,126.00	87828.00

4	Supplying and making cable end terminations with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade, complete as required.				
	3½ X 95 sq. mm (45mm)	3	Each	491.00	1473.00
5	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				
	100 mm dia	12	Meter	1376.00	16512.00
6	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
	100mm dia		Metre	553.00	0.00
	150 mm dia	8	Meter	607.00	4856.00
	250 mm dia		Meter	803.00	0.00
	300 mm dia		Meter	927.00	0.00
7	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
	90 mm dia (OD-90 mm & ID-76 mm nominal)	10	Metre	241.00	2410.00
	SUBHEAD - III: EXTERNAL LIGHTING				
8	Supplying, installation & testing of 7.0 m high octagonal GI pole with single arm as per approved sample made from 3 mm sheet steel (Grade S 355 J0) with top diameter as 75mm and bottom dia as 150mm and base plate of 240x240x16 mm with suitable slot shaped holes for mounting the same on a shallow foundation, GI weather proof junction box with 16A SP MCB, loop-in-loop out terminals for 2nos. 2Cx6 sq.mm YWY cables and 2x2.5 sq.mm copper conductor from junction box to fitting and connected accessories as required etc.	1	Nos.	20,900.00	20900.00

9	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy $\geq 120 < 135$ lm/Watt) Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency $>85\%$, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $>85\%$, THD $< 10\%$ as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66, IK-10, CRI >70 , under voltage and over voltage protection, EMI/EMC As per CISPR 15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <5 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 120 < 135$ lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
	90 Watt	1	Nos.	1675.00	1675.00
10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.				
	Double pole	1	Nos.	499.00	499.00
11	Supplying, Installation, Testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.				
	1 output per phase and suitable for single phase supply	1	Set	3352.00	3352.00
12	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.				
	Above 6.5 metre and upto 8.0 metre	1	each	5148.00	5148.00
13	Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required				
	32 mm dia	25	Mtr	401.00	10025.00
				TOTAL	229,013.00

S.No	Description	Uom	Qty	Unit Rate	Amount
	Video System				
1.0	SITC of 7.5 Mtr *1.5 Mtr P10 Programmable OUTDOOR LED Sign Board Based on SMD technology	Sq Ft	121	3800.00	459800.00
2.0	Wall Mount Accessories & Fixture	Lot	1	570	570.00
3.0	Freight Upto 300 KM	Lot	1	9500	9500.00
				Total	469870.00