

The Braithwaite Burn And Jessop Construction Company Ltd.

Name of Work: Construction of School Building, Staff Quarter, Boundary Wall, etc. for Kendriya Vidyalaya at Narayanpur (UP)

Tender No. NIT/DGM(P-V)/CIVIL/KVS/NARAYANPUR

Date: 26-10-16

PRICE BID

Sl. No.	Description	Estimated Cost	% (percentage) - Above/Below/At-Par	Amount (Rs.)
1	Construction of School Building, Staff Quarter, Boundary Wall, etc. for Kendriya Vidyalaya at Narayanpur (UP)	15,66,05,361.00		

Amount in Words:

(Sign. & Stamp - Tenderer)

Name of work: PROPOSED KENDRIYA VIDHALAYA FOR KENDRIYA VIDYALAYA SANGTHAN AT NARAYANPUR.

SI. NO.	DESCRIPTION	AMOUNT	
			TOTAL
1	Site clearance (including Leveling & dressing)	₹	14,21,538.00
2	(a) Cost of School Building Including internal w/supply Sanitary installations and electric installation with wiring all Fitting fixtures and other requirements'		
	(c) Cost of building	₹	9,66,84,286.18
3	(a) Cost of Staff Quarters Building Including internal w/supply Sanitary installations and electric installation with wiring all Fitting fixtures and other requirements' (9 units)		
	Staff Quarter Type-II (including electrical)	₹	62,11,747.91
	Staff Quarter Type-III (including elctrical)	₹	67,78,871.30
	Staff Quarter Type-V (Including electrical)	₹	40,61,929.17
	(c) Total Cost of Staff Quarter building	₹	1,70,52,548.37
4	External services and site development works (based on Economy and function)		
	a) Internal Roads /Paths /Culverts	₹	22,73,182.00
	b) Water supply including tube well pump house .pumps O/H Tank	₹	18,85,993.48
	c) Electrical supply including compound lighting	₹	49,53,315.00
	d) Sewage disposal including septic tank soak pits	₹	18,28,725.23
	e) Area drainagec (Strom water drain)	₹	28,81,594.00
	f) Compound wall and gates (as per KVS norms)	₹	1,01,59,455.00
	g) Cycle stand with and tubular tress . As sheet roof	₹	4,35,451.00
	h) Leveling and dressing (Taken in Site Clearance)	₹	-
	i) Retaining walls if any	₹	-
	j) Sports facilities if any (Badminton, Volley Ball & Basket Ball court)	₹	20,71,482.41
	k) Canteen security hut	₹	7,46,429.70
	l) Other items (Covered Stage & Assembly Area)	₹	34,64,401.00
	m) Covering of Open Court Yard	₹	1,07,46,960.00
	Sub Total	₹	4,14,46,988.82
5	TOTAL	₹	15,66,05,361.37
	SAY	₹	15,66,05,361.00

Summary of School Building - KV Narayanpur

S.No.	Sub head	Total Amount
A)	CIVIL	
1	EARTH WORK	₹ 9,38,259.00
2	CONCRETE WORK	₹ 22,32,663.00
3	REINFORCED CEMENT CONCRETE	₹ 3,91,81,051.30
4	BRICK WORK	₹ 97,71,707.00
5	WOOD WORK	₹ 18,64,808.00
6	STEEL WORK	₹ 37,86,701.00
7	FLOORING	₹ 1,17,48,346.15
8	ROOFING WORK	₹ 24,63,715.60
9	FINISHING	₹ 63,70,063.60
10	MISCELLANEOUS CIVIL WORKS	₹ 64,08,508.10
11	WATER PROOFING WORK	₹ 18,59,283.00
12	STRUCTURAL GLAZING	₹ 2,28,241.42
	Sub Total	₹ 8,68,53,347.18
	Grand Total	₹ 8,68,53,347.18
13	Plumbing	₹ 49,21,774.00
14	Electrification	₹ 49,09,165.00
	Total	₹ 9,66,84,286.18

PROPOSED KENDRIYA VIDYALAYA NARAYAN PUR

COMPLETE ESTIMATE

ITEM NO.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE	AMOUNT
1.0	EARTH WORK				
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.				
a	All kinds of soil	1746.93	Cum	₹ 155.60	₹ 2,71,822.00
1.02	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	697.35	Cum	₹ 157.50	₹ 1,09,833.00
1.03	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, inlayers 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 :				
a	All kinds of soil				
i	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	0.00	M	₹ 208.30	₹ -
1.04	Filling from available excavated earth, excluding rock/boulder in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth and consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m.		Cum	₹ 112.40	₹ -
1.05	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	325.25	Cum	₹ 910.25	₹ 2,96,054.00
1.06	Supplying chemical emulsion in sealed containers including delivery as specified.				
a	Chlorpyriphos/Lindane emulsifiable concentrate of 20%	761.11	Ltr	₹ 185.95	₹ 1,41,529.00
1.07	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for pre-constructional anti-termite treatment and creating a continuous chemical barrier under and around the columns pits, wall trenches, top surface of plinth filling				
a	Chlorophyriphos (20% E.C.)	1586.95	Sqm	₹ 75.00	₹ 1,19,021.00
	TOTAL EARTH WORK CARRIED OVER TO SUMMARY				₹ 9,38,259.00
2.0	CONCRETE WORK				
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	136.96	Cum	₹ 4,301.15	₹ 5,89,079.00
b	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	326.11	Cum	₹ 4,004.00	₹ 13,05,747.00
2.02	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centring, shuttering and finishing:				

a	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	19.98	Cum	₹ 6,450.00	₹ 1,28,864.00
2.03	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	173.17	Sqm	₹ 257.80	₹ 44,643.00
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 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	173.17	Sqm	₹ 132.00	₹ 22,858.00
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	337.40	Sqm	₹ 419.30	₹ 1,41,472.00
TOTAL OF CONCRETE WORK CARRIED OVER TO SUMMARY					₹ 22,32,663.00
3.0 REINFORCED CEMENT CONCRETE					
3.01	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns etc. for mass concrete.	464.87	Sqm	₹ 196.45	₹ 91,324.00
b	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	66.09	Sqm	₹ 360.80	₹ 23,845.00
c	Suspended floors, roofs, landings, balconies and access platform.	5622.98	Sqm	₹ 401.65	₹ 22,58,470.00
d	Shelves (Cast in situ)	332.84	Sqm	₹ 401.65	₹ 1,33,687.00
e	Lintels, beams, plinth beams, grinders, bressumers and cantilevers.	4745.08	Sqm	₹ 332.15	₹ 15,76,080.00
f	Columns, Pillars, Piers, Abutments, Posts and Struts	2628.70	Sqm	₹ 453.35	₹ 11,91,720.00
g	Stairs, (excluding landings) except spiral-staircase	332.84	Sqm	₹ 395.65	₹ 1,31,690.00
h	Edges of slabs and breaks in floors and walls.				
1	Under 20 cms wide	1205.40	M	₹ 116.40	₹ 1,40,309.00
j	Cornices and mouldings	R.O.	Sqm	₹ 549.20	
3.02	Extra for additional height in centering, shuttering where ever required with adequate bracing, proppijng etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m for every additional height of 1 metre or part thereof (Plan area to be measured)				
a	Suspended floors, roofs, landing, beams and balconies (plan area to be measured.)	65.31	Sqm	₹ 159.05	₹ 10,388.00
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Up to plinth level.and above plinth				
a	Thermo-Mechanically Treated bars.	R.O.	Kg.	₹ 68.10	
3.04	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	309671.67	Kg.	₹ 68.10	₹ 2,10,88,641.00
3.05	Providing, precast cement concrete Jali 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc complete except plastering of the jambs, sills and soffits.				
a	50 mm thick		Sqm	₹ 729.95	
3.06	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer, sealing compound in expansion joints.	117.00	per cm depth per 100m	₹ 446.90	₹ 52,287.30
3.07	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.				
a	Aluminium fluted strips 3.15mm thick.				
i	150 mm wide.	104.80	M	₹ 460.60	₹ 48,271.00

3.08	Add or deduct for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	706.50	M	₹ 30.75	₹ 21,725.00
3.09	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement including Admixture in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge - M-25 grade reinforced cement concrete by using 380 kg. of cement per cum of concrete. All work upto plinth level.		Cum	₹ 6,296.15	₹ -
3.10	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement including Admixture in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge - M-25 grade reinforced cement concrete by using 380 kg. of cement per cum of concrete. All work upto floor V level.	1769.55	Cum	₹ 7,014.55	₹ 1,24,12,614.00
	TOTAL OF R.C.C. WORK CARRIED OVER TO SUMMARY				₹ 3,91,81,051.30
4.0	BRICK WORK				
4.01	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	508.03	Cum	₹ 4,677.25	₹ 23,76,186.00
4.02	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	1095.17	Cum	₹ 5,426.15	₹ 59,42,573.00
4.03	Half brick masonry with bricks of class designation 75 in superstructure above plinth level upto floor V level				
a	Cement mortar 1:4 (1 cement: 4 coarse sand)	2182.26	Sqm	₹ 665.80	₹ 14,52,948.00
4.04	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks)	0.00	Sqm	₹ 69.50	₹ -
	Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand) The rate includes providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of masonry work.		Sqm	₹ 6,386.95	₹ -
	TOTAL OF BRICK WORK CARRIED OVER TO SUMMARY				₹ 97,71,707.00
5.0	WOOD WORK				
5.01	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 teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	456.00	Sqm	₹ 1,909.55	₹ 8,70,755.00
5.02	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	456.00	Sqm	₹ 365.85	₹ 1,66,828.00
5.03	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (Cost of glass excluded) (overall area of door shutter to be measured) :				
a	Rectangular or square	374.55	Sqm	₹ 139.40	₹ 52,212.00

5.04	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	328.65	Sqm	₹ 104.55	₹ 34,360.00
5.05	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.				
a	Fixed to steel windows by welding.	6027.75	Kg	₹ 109.00	₹ 6,57,025.00
5.06	Providing and fixing aluminium 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	300x16 mm	178.00	Each	₹ 229.65	₹ 40,878.00
5.07	Providing and fixing aluminium tower 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 necessary screws etc. complete:				
a	250 x 10mm	178.00	Each	₹ 95.25	₹ 16,955.00
b	150 x 10mm	130.00	Each	₹ 65.35	₹ 8,496.00
5.08	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
a	125 mm	178.00	Each	₹ 69.80	₹ 12,424.00
5.09	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
a	Single rubber stopper.	130.00	Each	₹ 37.50	₹ 4,875.00
5.1	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 :				
	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	R.O.	sqm	₹ 1,735.00	
TOTAL OF WOOD WORK CARRIED OVER TO SUMMARY					₹ 18,64,808.00
6.0 STEEL WORK					
6.01	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side/ top/ centre hung with beading and all members such as K11B and K12B etc. complete of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required as per approved design.	8646.30	kg	₹ 191.90	₹ 16,59,225.00
6.02	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	4601.00	Kg	₹ 83.70	₹ 3,85,104.00
6.03	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.				

a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	19338.20	Kg	₹ 90.10	₹ 17,42,372.00
6.04	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing & staircase railing including applying a priming coat of approved steel primer				
a	G.I. pipes.		Kg	₹ 108.60	₹ -
	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	0.00	kg	₹ 619.40	₹ -
TOTAL OF STEEL WORK CARRIED OVER TO SUMMARY					₹ 37,86,701.00
7.0 FLOORING					
7.01	Providing and fixing 18mm thick gang saw cut mirror polished pre moulded 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 20mm 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.				
	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.				
a	Area of slab upto 0.50 sqm.		sqm	₹ 2,341.55	
b	Area of slab over 0.50 sqm.	94.89	sqm	₹ 2,463.55	₹ 2,33,771.80
7.02	Providing edge moulding to 18mm 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.				
a	Marble work		sqm	₹ 136.10	
b	Granite work.	110.30	sqm	₹ 230.55	₹ 25,429.90
7.03	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	14.80	sqm	₹ 247.40	₹ 3,661.77
7.04	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4coarse sand) :				
a	Ordinary cement without any pigment.	245.94	sqm	₹ 829.85	₹ 2,04,093.31
7.05	Kota stone slab flooring over 20mm (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 1 : 4 (1 cement : 4 coarse sand) :				
a	25 mm thick	5899.63	Sqm	₹ 1,141.40	₹ 67,33,839.00
7.06	Kota stone slabs 25 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.	546.52	Sqm	₹ 1,191.25	₹ 6,51,038.00
7.07	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	1682.00	M	₹ 75.80	₹ 1,27,495.60

7.08	Providing and fixing 1st quality ceramic glazed tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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.	2765.39	Sqm	₹ 836.65	₹ 23,13,662.00
7.09	Providing and fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in- Charge.				
a	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).				
i	Acid and alkali resistant tile.	123.20	Sqm	₹ 1,230.30	₹ 1,51,573.00
	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for flooring and similar locations of required size, approved shade, colour and texture laid over 20mm 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.	156.90	Sqm	₹ 2,500.00	₹ 3,92,243.75
	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	285.32	Sqm	₹ 950.05	₹ 2,71,071.07
	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
	Size of Tile 600x600 mm	408.80	sqm	₹ 1,566.70	₹ 6,40,466.96
	Providing and fixing Yellow Jaislemer stone 18mm thick 100 mm strips laid over 20 mm thick cement mortar (1 cement:4 Coarse sand) including mirror polishing complete	0.00	Mtr	₹ 200.00	₹ -
TOTAL OF FLOORING CARRIED OVER TO SUMMARY					₹ 1,17,48,346.15
8.0	ROOFING WORK				
8.01	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design:				
a	In 75x75mm deep chase	716.11	M	₹ 143.10	₹ 1,02,475.00
8.02	Making khurras 45 x 45cm with average minimum thickness of 5cm cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over PVC sheet 1m x 1m x 400 micron, finished with 12mm cement plaster 1:3 (1 cement: 3 coarse sand) and coat of neat cement, rounding the edges and making and finishing the outlet complete.	20.00	Each	₹ 186.65	₹ 3,733.00
8.03	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.				
a	(i) Single socketed pipes				
i	110 mm diameter	167.50	M	₹ 231.65	₹ 38,801.00

8.04	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.				
a	Coupler				
i	110 mm	13.00	Each	₹ 138.30	₹ 1,798.00
b	Single tee with door				
i	110 mm	13.00	Each	₹ 306.60	₹ 3,986.00
c	Bend 87.5°				
i	110 mm	13.00	Each	₹ 161.55	₹ 2,100.00
d	Shoe (Plain)				
i	110 mm	13.00	Each	₹ 295.10	₹ 3,836.00
8.05	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1cement:4 coarse sand) and making good the walls etc. complete.				
a	110 mm	80.85	Each	₹ 189.05	₹ 15,285.00
8.06	Providing and filling sinders in sunken slabs including light ramming.	10.53	Cum	₹ 1,400.00	₹ 14,737.00
	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection >0.70 and initial emittance >0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	1730.83	sqm	₹ 1,133.85	₹ 19,62,505.00
	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the rate of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I.				
	12.5 mm thick tapered edge gypsum moisture resistant board.	296.80	sqm	₹ 1,059.50	₹ 3,14,459.60
TOTAL OF ROOFING CARRIED OVER TO SUMMARY					₹ 24,63,715.60
9.0	FINISHING				
9.01	12 mm cement plaster of mix :				
a	1:6 (1 cement : 6 fine sand)	2990.97	Sqm	₹ 149.45	₹ 4,32,486.00
9.02	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a	1:6 (1 cement : 6 fine sand)	4486.46	Sqm	₹ 172.80	₹ 7,75,260.00
9.03	20mm cement plaster 1:2 (1 cement : 2 stone dust)	5695.00	Sqm	₹ 285.40	₹ 16,25,354.00
9.04	6mm cement plaster of mix:				
a	1:3 (1 cement : 3 fine sand)	7161.13	Sqm	₹ 134.70	₹ 9,64,604.00

9.05	Extra for plastering done on moulding cornices or architraves including neat finish to line and level:					
a	In one coat	R.O.	Sqm	₹	273.25	
9.06	White washing with lime to give an even shade:					
a	New work (three or more coats)	14638.57	Sqm	₹	16.20	₹ 2,37,145.00
9.07	Applying one coat of cement primer of approved brand and manufacture on wall surface :					
a	Cement primer	14638.57	Sqm	₹	35.85	₹ 5,24,793.00
9.08	Finishing walls with textured exterior paint of required shade :					
a	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	5695.00	Sqm	₹	146.45	₹ 8,34,033.00
9.09	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade					
a	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	2847.50	Sqm	₹	94.95	₹ 2,70,370.00
9.10	Applying priming coat :					
a	With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	1644.00	Sqm	₹	32.95	₹ 54,170.00
9.11	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
a	Two or more coats on new work	5207.25	Sqm	₹	74.40	₹ 3,87,419.00
9.12	Painting of black board with black paint of approved brand and manufacturer.	120.96	Sqm	₹	120.00	₹ 14,515.00
9.13	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement: 4 fine sand):					
	Raised Band	48536.00	cm per metre	₹	4.85	₹ 2,35,399.60
TOTAL OF FINISHING CARRIED OVER TO SUMMARY						₹ 63,70,063.60
10.0	MISCELLANEOUS CIVIL WORKS					
10.01	Providing and fixing 24 SWG G.I. Chicken wire mesh of size 12mm fixed with nails/neat cement plaster etc. as directed at the junction of brick and RCC works.	3366.36	Sqm	₹	50.00	₹ 1,68,318.00
10.02	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick in urinal partitions by cutting 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.					
a	White Agaria Marble Stone	18.00	Sqm	₹	3,263.50	₹ 58,743.00
10.03	providing and fixing GRC Jalli 50 mm thick with 50% area covered as per specifications of manufacturer.(unistone)	76.54	Sqm	₹	4,500.00	₹ 3,44,412.00
10.04	Providing and fixing ACP as per manufacturer specification as per direction of Engineer-in-Charge	48.00	sqm	₹	4,000.00	₹ 1,92,000.00
10.05	providing and fixing Stainless Steel Letters 750mm high as per drawings	28.00	each	₹	1,000.00	₹ 28,000.00

10.06	Providing and fixing machine cut, mirror / eggshell polished , granite stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.				
	Granite	134.94	sqm	₹ 4,000.00	₹ 5,39,760.00
10.07	Providing and fixing machine cut, mirror / eggshell polished , granite stone work for Band (veneer work) in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.				
	Granite	308.00	sqm	₹ 5,000.00	₹ 15,40,000.00
10.08	Providing and fixing artistical glass mosaic tiles (20x20x4mm) mural as per specification and design as per artist requirement complete including installation.	340.08	sqm	₹ 5,000.00	₹ 17,00,400.00
10.09	Providing and laying Insuplast (Vermiculite) average thickness 75mm at terrace in 1:4 (1 Cement:4 Vermiculite) as per manufacturers specifications.	1730.83	sqm	₹ 1,000.00	₹ 17,30,832.60
10.10	Providing and fixing SS 304 grade cladding to porch columns complete	10.60	sqm	₹ 10,000.00	₹ 1,06,042.50
TOTAL OF MISCELLANEOUS CIVIL WORK CARRIED OVER TO SUMMARY					₹ 64,08,508.10
11.0	WATER PROOFING WORK				
11.01	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
i	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
ii	IIInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
iii	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				
iv	IVth course of 400 micron thick PVC sheet. (overlaps at joints of PVC sheet should be 100mm wide and pasted to each other with bitumen @ 1.7 kg/sqm)	280.84	Sqm	₹ 522.90	₹ 1,46,851.00

11.02	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 over the RCC slab including clesning the surface before treatment. b) Laying cement concrete using broken bricks/brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 to require slope and treating similarly the adjoining walls upto 300mm height rounding of junctions of walls and slabs. c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645.				
	d) Finishing the surface with 20mm thick jointless cement mortar of min 1:4 (1 cement :4 corse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishinf the surface with trowel with neat cement slurry and making of 300x300mm square. e) The whole terrace so finished shall be flooded with water for a minimum period of two week of curing and for final test. All above operations to be done in order and as directed and specified by the Engineei-in-Charge.				
i	(With avg. thickness of 120mm and minimum thickness at khurra as 65mm).	1680.42	Sqm	₹ 1,019.05	₹ 17,12,432.00
11.03	Grading roof for water proofing treatment with				
a	Cement mortar 1:3 (1 cement : 3 coarse sand)	0.00	Cum	₹ 9,205.70	₹ -
	TOTAL OF WATER PROOFING WORK CARRIED OVER TO SUMMARY				₹ 18,59,283.00
12.0	STRUCTURAL GLAZING AND ACP PANELS				
12.01	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:				
	a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.				
	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.				
	(c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing.				

	<p>The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.</p>				
	<p>(c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing.</p>	60.46	sqm	₹ 3,775.30	₹ 2,28,241.42
	<p>TOTAL OF STRUCTURAL GLAZING WORK CARRIED OVER TO SUMMARY</p>				₹ 2,28,241.42

Proposed Kendriya Vidyalay at Narayan Pur

ABSTRACT OF COST PLUMBING

ITEM	NAME OF SUB-HEAD	TOTAL AMOUNT
	CIVIL WORK	
1	SANITARRY FITTINFGS	₹ 16,78,523.00
2	WATER SUPPLY	₹ 13,65,550.00
3	DRAINAGE	₹ 18,77,701.00
	TOTAL	₹ 49,21,774.00
		₹ -
		₹ 49,21,774.00
	TOTAL	₹ 49,21,774.00

Proposed Kendriya Vidyalaya at Narayanpur

COMPLETE ESTIMATE

ITEM NO.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE	AMOUNT
SANITARY FITTINGS					
1.01	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litres low level white PVC flushing cistern with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.				
a	W.C. pan with ISI marked white solid plastic seat and lid	52.00	Each	₹ 3,317.30	₹ 1,72,500.00
1.02	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 :				
a	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	52.00	Each	₹ 1,807.10	₹ 93,969.00
1.03	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P.brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the walls wherever required				
a	Size 600x450x200mm	9.00	Each	₹ 3,162.75	₹ 28,465.00
1.04	Providing and fixing white vitreous china water closet squatting pan (Indian type)				
a	Orissa pattern W.C. pan of size 580x440 mm	12.00	Each	₹ 1,405.30	₹ 16,864.00
1.05	Providing and fixing 100mm sand cast Iron grating for gully trap.	61.00	Each	₹ 29.50	₹ 1,800.00
1.06	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	52.00	Each	₹ 793.95	₹ 41,285.00
1.07	Providing and fixing soil, waste and vent pipes :				
a	100 mm dia.				
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	259.50	M	₹ 917.75	₹ 2,38,156.00
b	75 mm diameter				
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	234.40	M	₹ 791.30	₹ 1,85,481.00
1.08	Providing and fixing M.S. holder-bat clamps of approved design to sand Cast iron / cast iron (Spun) pipe embedded in and including cement concrete blocks 10 X 10 X 10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.				
a	For 100 mm dia. pipe	144.00	Each	₹ 152.90	₹ 22,018.00
b	For 75 mm dia. pipe	130.00	Each	₹ 150.60	₹ 19,578.00
1.09	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete				
a	100 mm dia.				
i	Sand cast iron S&S as per IS - 3989	58.00	Each	₹ 385.70	₹ 22,371.00
b	75 mm diameter				
i	Sand cast iron S&S as per IS - 3989	117.00	Each	₹ 318.50	₹ 37,265.00
1.10	Providing and fixing plain bend of required degree.				
a	100 mm dia.				
i	Sand cast iron S&S as per IS - 3989	116.00	Each	₹ 335.75	₹ 38,947.00
b	75 mm diameter				
i	Sand cast iron S&S as per IS - 3989	234.00	Each	₹ 248.80	₹ 58,219.00
1.11	Providing and fixing heel rest sanitary bend				
a	100 mm dia.				
i	Sand cast iron S&S as per IS - 3989	26.00	Each	₹ 371.75	₹ 9,666.00
b	75 mm diameter				
i	Sand cast iron S&S as per IS - 3989	24.00	Each	₹ 312.70	₹ 7,505.00
1.12	Providing and fixing double equal plain junction of required degree.				
a	100x100x100x100mm				
i	Sand cast iron S&S as per IS - 3989	37.00	Each	₹ 748.10	₹ 27,680.00
b	75x75x75x75mm				
i	Sand cast iron S&S as per IS - 3989	75.00	Each	₹ 558.90	₹ 41,918.00
1.13	Providing and fixing single equal plain junction of required degree :				
a	100x100x100mm				
i	Sand cast iron S&S as per IS - 3989	29.00	Each	₹ 576.20	₹ 16,710.00

ITEM NO.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE	AMOUNT
b	75x75x75mm				
i	Sand cast iron S&S as per IS - 3989	35.00	Each	₹ 405.60	₹ 14,196.00
1.14	Providing and fixing terminal guard:				
a	100 mm				
i	Sand cast iron S&S as per IS - 3989	0.00	Each	₹ 434.50	₹ -
b	75 mm				
i	Sand cast iron S&S as per IS - 3989	0.00	Each	₹ 370.75	₹ -
1.15	Providing and fixing collar:				
a	100 mm				
i	Sand cast iron S&S as per IS - 3989	7.00	Each	₹ 318.35	₹ 2,228.00
b	75 mm				
i	Sand cast iron S&S as per IS - 3989	9.00	Each	₹ 219.75	₹ 1,978.00
1.16	Providing lead caulked joints to sand cast iron / centrifugally cast (spun) iron pipes and fittings of diameter:				
a	100 mm	706.00	Each	₹ 243.75	₹ 1,72,088.00
b	75 mm	1198.00	Each	₹ 205.30	₹ 2,45,949.00
1.17	Providing and fixing M.S. stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter:				
a	100 mm	26.00	Each	₹ 68.60	₹ 1,784.00
b	75 mm	24.00	Each	₹ 57.15	₹ 1,372.00
1.18	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
a	100 mm inlet and 100 mm outlet				
i	Sand cast iron S&S as per IS - 3989	16.00	Each	₹ 982.55	₹ 15,721.00
b	100 mm inlet and 75 mm outlet				
i	Sand cast iron S&S as per IS - 3989	61.00	Each	₹ 1,020.90	₹ 62,275.00
1.19	Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement :3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including neces				
a	100 mm dia	13.00	M	₹ 332.00	₹ 4,316.00
b	75 mm dia	27.00	M	₹ 237.60	₹ 6,415.00
1.20	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
a	100 mm diameter pipe	219.00	M	₹ 38.65	₹ 8,464.00
b	75 mm diameter pipe	181.00	M	₹ 29.50	₹ 5,340.00
1.21	Providing and fixing 32 mm dia. C. P. Brass flush valve with manually controlled device (handle lever) conforming to relevent IS Code of approved brand with all fittings and fixtures complete.	40.00	Each	₹ 1,400.00	₹ 56,000.00
TOTAL OF SANITARRY FITTINFGS CARRIED OVER TO SUMMARY					₹ 16,78,523.00
WATER SUPPLY					
2.01	Providing and fixing G.I. pipes complete with G.I. fittings and clamps,including cutting and making good the walls etc. (internal work)				
a	Exposed on wall				
i	25mm dia. nominal bore	532.00	M	₹ 304.15	₹ 1,61,808.00
ii	32mm dia. nominal bore	941.00	M	₹ 343.20	₹ 3,22,951.00
iv	40mm dia. nominal bore	9.00	M	₹ 425.65	₹ 3,831.00
2.02	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall				
a	15 mm dia nominal bore	860.00	M	₹ 306.05	₹ 2,63,203.00
b	20 mm dia nomina bore	250.00	M	₹ 333.85	₹ 83,463.00
2.03	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work)				
a	40mm dia. nominal bore	325.00	M	₹ 334.15	₹ 1,08,599.00
2.04	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.				
a	25 to 40 mm nominal bore	1.00	Each	₹ 367.75	₹ 368.00
2.05	Providing and fixing brass bib cock of approved quality :				
a	15 mm nominal bore	123.00	Each	₹ 260.60	₹ 32,054.00
2.06	Providing and fixing brass stop cock of approved quality :				
a	15 mm nominal bore	144.00	Each	₹ 260.60	₹ 37,526.00
2.07	Providing and fixing gun metal gate valve with C.I. wheel of approved quality(screwed end)				

ITEM NO.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE	AMOUNT
a	25 mm nominal bore	18.00	Each	₹ 428.85	₹ 7,719.00
b	32 mm nominal bore	32.00	Each	₹ 501.55	₹ 16,050.00
c	40 mm nominal bore	4.00	Each	₹ 585.50	₹ 2,342.00
2.08	Providing and fixing ball valve (brass) of approved quality. High or low pressure, with plastic floats complete.				
a	15 mm nominal bore	60.00	Each	₹ 288.50	₹ 17,310.00
2.09	Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :				
a	25 mm diameter pipe.	532.00	M	₹ 9.60	₹ 5,107.00
b	32 mm nominal bore.	941.00	M	₹ 11.35	₹ 10,680.00
c	40 mm nominal bore.	9.00	M	₹ 14.95	₹ 135.00
2.10	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
a	40 mm nominal bore.	325.00	M	₹ 11.85	₹ 3,851.00
2.11	Providing and filling sand of grading zone V or coarser grade around the G.I. pipes in external work.				
a	40 mm dia. pipe.	325.00	M	₹ 71.75	₹ 23,319.00
2.12	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required.				
a	15 mm nominal bore.	60.00	Each	₹ 165.25	₹ 9,915.00
b	20 mm nominal bore.	30.00	Each	₹ 188.50	₹ 5,655.00
c	25 mm nominal bore.	36.00	Each	₹ 200.10	₹ 7,204.00
d	32 mm nominal bore.	96.00	Each	₹ 240.75	₹ 23,112.00
e	40 mm nominal bore.	6.00	Each	₹ 316.25	₹ 1,898.00
2.13	Providing and placing on terrace (at all floors levels) polyethylene water storage tank ISI :12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	29000.00	Litre	₹ 7.25	₹ 2,10,250.00
2.14	Providing and fixing C.P. brass swan type bib cock of approved quality :				
a	15 mm nominal bore.	9.00	Each	₹ 800.00	₹ 7,200.00
TOTAL OF WATER SUPPLY CARRIED OVER TO SUMMARY					₹ 13,65,550.00
DRAINAGE					
3.01	Providing, laying and jointing glazed stoneware pipes 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 :				
a	100 mm diameter	600.00	M	₹ 206.55	₹ 1,23,930.00
b	150 mm diameter	1200.00	M	₹ 314.35	₹ 3,77,220.00
3.02	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:				
a	100 mm diameter S.W. pipe	600.00	M	₹ 592.60	₹ 3,55,560.00
b	150 mm diameter S.W. pipe	1200.00	M	₹ 724.70	₹ 8,69,640.00
3.03	Providing and fixing square-mouth S.W. gully trap 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 :				
a	100 x 100 mm size P type				
i	With F.P.S. Bricks class designation 75	20.00	Each	₹ 1,571.25	₹ 31,425.00
3.04	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
i	With F.P.S. bricks with class designation 75	12.00	Each	₹ 8,507.00	₹ 1,02,084.00
3.05	Extra for depth for manholes				
a	Size 90x80 cm				
i	With F.P.S. bricks class designation 75	2.00	M	₹ 5,638.20	₹ 11,276.00

ITEM NO.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE	AMOUNT
3.06	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread 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.	36.00	Each	₹ 182.40	₹ 6,566.00
	TOTAL OF DRAINAGE CARRIED OVER TO SUMMARY				₹ 18,77,701.00

Summary KV Narayanpur

S.No.	Sub head	Total Amount
1	STEEL WORK	₹ 50,16,960.00
2	Misc	₹ 57,30,000.00
	Grand Total	₹ 1,07,46,960.00

PROPOSED KENDRIYA VIDYALAYA NARAYANPUR

COMPLETE ESTIMATE

ITEM NO.	DESCRIPTION OF ITEM	Quantity	UNIT	RATE	AMOUNT
1.0	STEEL WORK				
1.10	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.				
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	55682.13	Kg	₹ 90.10	₹ 50,16,960.00
	TOTAL OF STEEL WORK CARRIED OVER TO SUMMARY				₹ 50,16,960.00
2.0	MISCELLANEOUS CIVIL WORKS				
2.10	Providing and fixing 12mm thick polycarbonate sheet including framing if any complete as per manufacturers specifications				
	Granite	2292.00	sqm	₹ 2,500.00	₹ 57,30,000.00
	TOTAL OF MISCELLANEOUS CIVIL WORK CARRIED OVER TO SUMMARY				₹ 57,30,000.00

Residence Quarter Type II NARAYAN PUR

SUMMARY OF COST

S.No.	Sub head	Total Amount
1	EARTH WORK	₹ 78,882.25
2	CONCRETE WORK	₹ 2,16,178.98
3	REINFORCED CEMENT CONCRETE	₹ 19,03,740.34
4	BRICK WORK	₹ 12,72,847.53
5	WOOD WORK	₹ 2,61,201.58
6	STEEL WORK	₹ 4,00,186.33
7	FLOORING	₹ 3,74,809.44
8	ROOFING WORK	₹ 47,209.21
9	FINISHING	₹ 5,21,513.64
10	MISCELLANEOUS CIVIL WORKS	₹ 2,973.60
11	SANITARRY FITTINGS	₹ 2,06,824.94
12	WATER SUPPLY	₹ 1,03,103.20
13	DRAINAGE	₹ 64,725.52
14	WATER PROOFING WORK	₹ 1,56,167.36
15	Total	₹ 56,10,363.91
16	Electrical	₹ 6,01,384.00
17	Grand Total	₹ 62,11,747.91

Proposed Kendriya Vidyalaya Narayan Pur

Estimate Staff Quarter Type II

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT
1.0	EARTH WORK				
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.				
	All kinds of soil	Cum	207.39	₹ 157.50	₹ 32,663.93
1.02	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
a	All kinds of soil				
i	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	M	30.00	₹ 208.30	₹ 6,249.00
1.04	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 m and lift upto 1.5 m.	Cum	138.47	₹ 112.40	₹ 15,564.48
1.03	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				
a	All kinds of soil.	Cum	R.O.	₹ 46.00	
1.05	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	-	₹ 910.25	
1.06	Supplying chemical emulsion in sealed containers including delivery as specified.				
a	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	Ltr	33.00	₹ 185.95	₹ 6,136.35
1.07	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
a	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.				
i	With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	Sqm	55.50	₹ 22.70	₹ 1,259.85
b	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Mtr	33.00	₹ 200.70	₹ 6,623.10
1.07	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for pre-constructional anti-termite treatment and creating a continuous chemical barrier under and around the columns pits, wall trenches, top surface of plinth filling				
a	Chlorophyriphos (20% E.C.)	Sqm	138.47	₹ 75.00	₹ 10,385.55
	TOTAL EARTH WORK CARRIED OVER TO SUMMARY				₹ 78,882.25
2.0	CONCRETE WORK				
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	16.40	₹ 4,301.15	₹ 70,549.61

b	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	12.89	₹	4,004.00	₹	51,601.91
2.02	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					₹	-
a	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	2.12	₹	6,450.00	₹	13,641.75
2.03	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	Sqm	21.02	₹	257.80	₹	5,419.47
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 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	Sqm	21.02	₹	132.00	₹	2,774.90
						₹	-
2.04	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per bag of 50 Kg of cement used in the mix	5.38	₹	48.00	₹	258.32
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sqm	171.56	₹	419.30	₹	71,933.01
	TOTAL OF CONCRETE WORK CARRIED OVER TO SUMMARY					₹	2,16,178.98
3.0	REINFORCED CEMENT CONCRETE						
3.01	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.						
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).						
a	All work upto plinth level.	Cum	21.52	₹	6,296.15	₹	1,35,508.89
b	All work from plinth level upto floor V level.	Cum	85.74	₹	7,014.55	₹	6,01,453.47
3.02	Centering and shuttering including strutting, propping etc. and removal of form for :					₹	-
a	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	34.44	₹	196.45	₹	6,765.74
b	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	R.O.	₹	360.80		
c	Suspended floors, roofs, landings, balconies and access platform.	Sqm	292.72	₹	401.65	₹	1,17,571.71
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	364.11	₹	332.15	₹	1,20,939.27
e	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	239.63	₹	453.35	₹	1,08,637.17
f	Stairs, (excluding landings) except spiral-staircases.	Sqm	23.59	₹	395.65	₹	9,332.99
3.03	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
a	Thermo-Mechanically Treated bars.	Kg.	2,367.48	₹	68.10	₹	1,61,225.05

3.04	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
a	Thermo-Mechanically Treated bars.	Kg.	9,431.81	₹	68.10	₹ 6,42,306.06
TOTAL OF R.C.C. WORK CARRIED OVER TO SUMMARY						₹ 19,03,740.34
4.0	BRICK WORK					
4.01	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in.					
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	30.99	₹	4,677.25	₹ 1,44,952.75
4.02	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 :					₹ -
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	190.37	₹	5,426.15	₹ 10,32,952.84
4.03	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					₹ -
a	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	129.12	₹	665.80	₹ 85,968.10
4.04	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	129.12	₹	69.50	₹ 8,973.84
TOTAL OF BRICK WORK CARRIED OVER TO SUMMARY						₹ 12,72,847.53
5.0	WOOD WORK					
5.01	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :					
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	79.20	₹	1,909.55	₹ 1,51,236.36
5.02	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	Sqm	79.2	₹	365.85	₹ 28,975.32
						₹ -
5.03	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					₹ -
a	Fixed to steel windows by welding.	Kg	635.10	₹	109.00	₹ 69,225.90
5.04	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :					₹ -
a	300x16 mm	Each	34.00	₹	173.00	₹ 5,882.00
5.05	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :					₹ -
a	250 x 10mm	Each	34.00	₹	67.00	₹ 2,278.00
b	150 x 10mm	Each	26.00	₹	46.00	₹ 1,196.00
5.06	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :					₹ -
a	125 mm	Each	52.00	₹	29.00	₹ 1,508.00
5.07	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.					₹ -
a	Single rubber stopper.	Each	24.00	₹	37.50	₹ 900.00
TOTAL OF WOOD WORK CARRIED OVER TO SUMMARY						₹ 2,61,201.58
6.0	STEEL WORK					

6.01	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).				
a	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).	Kg	1,327.80	₹ 191.90	₹ 2,54,804.82
6.02	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.				₹ -
a	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).	Kg	736.70	₹ 83.70	₹ 61,661.79
6.03	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.				₹ -
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	544.84	₹ 90.10	₹ 49,089.72
6.04	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				₹ -
a	M.S. tube.	Kg	212.64	₹ 104.70	₹ 22,263.16
6.05	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type) approved shape and section with screws instead of glazing clips and metal sash putty in steel doors, windows, ventilators and composite units.	Metre	320.80	₹ 38.55	₹ 12,366.84
TOTAL OF STEEL WORK CARRIED OVER TO SUMMARY					₹ 4,00,186.33
7.0	FLOORING				
7.01	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume including cement slurry etc. complete :				
a	Ordinary cement without any pigment	Sqm	287.52	₹ 590.10	₹ 1,69,667.91
7.02	Marble chips skirting (up to 30 cm height) rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :				
a	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :				
i	Ordinary cement without any pigment	Sqm	33.34	₹ 787.75	₹ 26,262.80
7.03	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) :				
a	25 mm thick	Sqm	11.04	₹ 1,141.40	₹ 12,601.06

7.04	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.	Sqm	155.82	₹ 836.65	₹ 1,30,366.80
7.05	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.				
a	40 mm wide and 4 mm thick.	Metre	717.50	₹ 50.05	₹ 35,910.88
TOTAL OF FLOORING CARRIED OVER TO SUMMARY				DSR	₹ 3,74,809.44
8.0	ROOFING WORK				
8.01	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
a	1.00mm thick with zinc coating not less than 275gm/m ²	Sqm	R.O.	₹ 1,030.50	₹ -
8.02	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.				
a	0.80mm thick with zinc coating not less than 275gm/m ²	M		₹ 568.90	₹ -
8.03	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
a	In 75x75mm deep chase	M	96.10	₹ 143.10	₹ 13,751.91
8.04	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 1mx1mx400micron, finished with 12mm 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	8.00	₹ 186.65	₹ 1,493.20
8.05	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) <u>Single socketed pipes.</u>				₹ -
a	110 mm diameter	M	46.30	₹ 231.65	₹ 10,725.40
8.06	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.				₹ -
a	Single pushfit Coupler :				₹ -
i	110 mm	Each	12.00	₹ 173.00	₹ 2,076.00
b	Single tee with door				₹ -
i	110x110x110 mm	Each	7.00	₹ 306.60	₹ 2,146.20
c	Bend 87.5°				₹ -
i	110 mm	Each	7.00	₹ 161.55	₹ 1,130.85
d	Shoe (Plain)				₹ -
i	110 mm Shoe	Each	7.00	₹ 295.10	₹ 2,065.70
8.07	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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.				₹ -
a	110 mm	Each	39.00	₹ 189.05	₹ 7,372.95
8.08	Providing and filling sinders in sunken slabs including light ramming.	Cum	4.61	₹ 1,400.00	₹ 6,447.00

	TOTAL OF ROOFING CARRIED OVER TO SUMMARY				₹	47,209.21
9.0	FINISHING					
9.01	12 mm cement plaster of mix :					
a	1:6 (1 cement : 6 fine sand)	Sqm	471.79	₹	149.45	₹ 70,509.25
9.02	15 mm cement plaster on the rough side of single or half brick wall of mix :					₹ -
a	1:6 (1 cement : 6 fine sand)	Sqm	707.69	₹	172.80	₹ 1,22,288.38
9.03	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	Sqm	677.13	₹	241.00	₹ 1,63,188.09
9.04	6mm cement plaster of mix:					₹ -
a	1:3 (1 cement : 3 fine sand)	Sqm	316.31	₹	134.70	₹ 42,607.06
9.05	Applying priming coat :					₹ -
a	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	23.04	₹	32.95	₹ 759.17
9.06	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					₹ -
a	Two or more coats on new work	Sqm	67.50	₹	74.40	₹ 5,022.30
9.07	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					₹ -
a	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	95.04	₹	106.25	₹ 10,098.00
9.08	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.					₹ -
a	Two or more coats on new work.	Sqm	1,339.97	₹	50.65	₹ 67,869.47
9.09	Finishing walls with water proofing cement paint of required shade :					₹ -
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	Sqm	677.13	₹	57.85	₹ 39,171.91
	TOTAL OF FINISHING CARRIED OVER TO SUMMARY					₹ 5,21,513.64
10.0	MISCELLANEOUS CIVIL WORKS					
10.01	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres :					
a	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	84.00	₹	35.40	₹ 2,973.60
	TOTAL OF MISCELLANEOUS CIVIL WORK CARRIED OVER TO SUMMARY					₹ 2,973.60
11.0	SANITARY FITTINGS					
11.01	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :					
a	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	4.00	₹	3,392.80	₹ 13,571.20
11.02	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 :					₹ -
a	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	Each	4.00	₹	1,807.10	₹ 7,228.40
11.03	Providing and fixing Stainless Steel A ISI 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 :					₹ -
a	Kitchen sink without drain board					₹ -
i	610x510 mm bowl depth 200 mm.	Each	4.00	₹	4,343.45	₹ 17,373.80

11.04	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				₹	-
a	Semi rigid pipe				₹	-
i	32 mm dia	Each	4.00	₹	76.75	₹ 307.00
ii	40 mm dia	Each	4.00	₹	82.60	₹ 330.40
11.05	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	12.00	₹	29.50	₹ 354.00
11.06	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	4.00	₹	793.95	₹ 3,175.80
11.07	Providing and fixing soil, waste and vent pipes :				₹	-
a	100 mm dia.				₹	-
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	M	37.60	₹	917.75	₹ 34,507.40
b	75 mm diameter				₹	-
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	M	69.60	₹	791.30	₹ 55,074.48
11.08	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :				₹	-
a	For 100 mm dia. pipe	Each	8.00	₹	152.90	₹ 1,223.20
b	For 75 mm dia. pipe	Each	8.00	₹	150.60	₹ 1,204.80
11.09	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				₹	-
a	100 mm dia.				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	385.70	₹ 1,542.80
b	75 mm diameter				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	318.50	₹ 3,822.00
11.10	Providing and fixing plain bend of required degree.				₹	-
a	100 mm dia.				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	335.75	₹ 1,343.00
b	75 mm diameter				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	248.80	₹ 2,985.60
11.11	Providing and fixing heel rest sanitary bend				₹	-
a	100 mm dia.				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	371.75	₹ 743.50
b	75 mm diameter				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	312.70	₹ 625.40
11.12	Providing and fixing double equal plain junction of required degree.				₹	-
a	75x75x75x75mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	558.90	₹ 2,235.60
11.13	Providing and fixing single equal plain junction of required degree :				₹	-
a	100x100x100mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	623.80	₹ 2,495.20
b	75x75x75mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	472.95	₹ 1,891.80
11.14	Providing and fixing terminal guard:				₹	-
a	100 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	434.50	₹ 869.00
b	75 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	370.75	₹ 741.50
11.15	Providing and fixing collar:				₹	-
a	100 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	318.35	₹ 1,273.40
b	75 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	219.75	₹ 2,637.00
11.16	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:				₹	-
a	100 mm	Each	48.00	₹	243.75	₹ 11,700.00
b	75 mm	Each	112.00	₹	205.30	₹ 22,993.60

11.17	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :				₹	-
a	100 mm	Each	2.00	₹ 68.60	₹	137.20
b	75 mm	Each	2.00	₹ 57.15	₹	114.30
11.18	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				₹	-
a	100 mm inlet and 100 mm outlet				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹ 982.55	₹	11,790.60
11.19	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				₹	-
a	100 mm dia	M	0.92	₹ 332.00	₹	305.44
b	75 mm dia	M	2.76	₹ 237.60	₹	655.78
11.20	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				₹	-
a	100 mm diameter pipe	M	19.60	₹ 38.65	₹	757.54
b	75 mm diameter pipe	M	27.60	₹ 29.50	₹	814.20
TOTAL OF SANITARY FITTINGS CARRIED OVER TO SUMMARY					₹	2,06,824.94
12.0	WATER SUPPLY					
12.01	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
a	Internal work – Exposed on wall.					
i	20 mm dia. nominal bore	M	80.00	₹ 249.30	₹	19,944.00
12.02	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall				₹	-
i	15 mm dia nominal bore	M	120.00	₹ 306.05	₹	36,726.00
12.03	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				₹	-
	External work				₹	-
a	40mm dia. nominal bore	M	50.00	₹ 334.15	₹	16,707.50
12.04	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 :				₹	-
a	25 to 40 mm nominal bore	Each	1.00	₹ 367.75	₹	367.75
12.05	Providing and fixing brass bib cock of approved quality :				₹	-
a	15 mm nominal bore	Each	20.00	₹ 260.60	₹	5,212.00
12.06	Providing and fixing brass stop cock of approved quality :				₹	-
a	15 mm nominal bore	Each	16.00	₹ 260.60	₹	4,169.60
12.07	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				₹	-
a	25 mm nominal bore	Each	1.00	₹ 428.85	₹	428.85
12.08	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				₹	-
a	15 mm nominal bore	Each	4.00	₹ 288.50	₹	1,154.00
12.09	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				₹	-
a	20 mm diameter pipe.	M	80.00	₹ 11.35	₹	908.00
b	25 mm diameter pipe.	M	0.00	₹ 14.95	₹	-
12.10	Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work.				₹	-
a	40 mm dia. pipe.	M	50.00	₹ 71.75	₹	3,587.50

12.11	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				₹	-
a	15 mm nominal bore.	Each	16.00	₹	165.25	₹ 2,644.00
b	20 mm nominal bore.	Each	4.00	₹	188.50	₹ 754.00
12.12	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Per Litre	2000.00	₹	5.25	₹ 10,500.00
TOTAL OF WATER SUPPLY CARRIED OVER TO SUMMARY						₹ 1,03,103.20
13.0	DRAINAGE					
13.01	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 :					
a	100 mm diameter	M	10.00	₹	206.55	₹ 2,065.50
b	150 mm diameter	M	10.00	₹	314.35	₹ 3,143.50
13.02	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:				₹	-
a	100 mm diameter S.W. pipe	M	10.00	₹	592.60	₹ 5,926.00
b	150 mm diameter S.W. pipe	M	10.00	₹	724.70	₹ 7,247.00
c	250 mm diameter S.W./ RCC pipe	M	0.00	₹	977.00	₹ -
13.03	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 :				₹	-
a	100x100 mm size P type				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	₹	1,571.25	₹ 3,142.50
13.04	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				₹	-
a	150 mm dia. R.C.C. pipe	M	40.00	₹	348.30	₹ 13,932.00
13.05	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				₹	-
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3.00	₹	8,507.00	₹ 25,521.00
13.06	Extra for depth for manholes				₹	-
	Size 90x80 cm				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	M	0.30	₹	5,638.20	₹ 1,691.46

13.07	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread 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	6.60	₹	311.60	₹	2,056.56
TOTAL OF DRAINAGE CARRIED OVER TO SUMMARY							₹ 64,725.52
14.0	WATER PROOFING WORK						
14.01	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 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm 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 2.75kg/ 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 3mm 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 :						
a	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	Sqm	130.07	₹	1,019.05	₹	1,32,542.74
14.02	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :						
i	Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.						
ii	IIInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.						
iii	IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.						

iv	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)	Sqm	45.18	₹	522.90	₹	23,624.62
	TOTAL OF WATER PROOFING WORK CARRIED OVER TO SUMMARY					₹	1,56,167.36

Residence Quarter Type III NARAYANPUR

SUMMARY OF COST

S.No.	Sub head	Total Amount
1	EARTH WORK	₹ 43,735.37
2	CONCRETE WORK	₹ 1,28,688.71
3	REINFORCED CEMENT CONCRETE	₹ 19,35,352.48
4	BRICK WORK	₹ 15,03,481.16
5	WOOD WORK	₹ 4,75,994.61
6	STEEL WORK	₹ 6,55,970.32
7	FLOORING	₹ 3,79,765.16
8	ROOFING WORK	₹ 54,381.53
9	FINISHING	₹ 4,36,656.95
10	MISCELLANEOUS CIVIL WORKS	₹ 2,655.00
11	SANITARRY FITTINGS	₹ 2,06,824.94
12	WATER SUPPLY	₹ 1,03,103.20
13	DRAINAGE	₹ 54,276.52
14	WATER PROOFING WORK	₹ 1,78,851.36
15	GRAND TOTAL	₹ 61,59,737.30
16	Electrical	₹ 6,19,134.00
17	Total	₹ 67,78,871.30

Estimate KV NARAYAN PUR

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE (RS)	AMOUNT (RS)
1.0	EARTH WORK				
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.				
a	All kinds of soil	Cum	R.O.	₹ 155.60	
1.02	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				₹ -
	All kinds of soil	Cum	186.27	₹ 157.50	
1.02	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				₹ -
a	All kinds of soil				₹ -
i	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	M	30.00	₹ 208.30	₹ 6,249.00
1.04	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 m and lift upto 1.5 m.	Cum	121.67	₹ 112.40	₹ 13,675.42
1.03	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				
a	All kinds of soil.	Cum	R.O.	₹ 46.00	
	Ordinary or hard rock.	Cum	R.O.	₹ 83.00	
1.05	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	-	₹ 910.25	₹ -
1.06	Supplying chemical emulsion in sealed containers including delivery as specified.				₹ -
a	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Ltr	34.68	₹ 185.95	₹ 6,448.75
1.07	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				₹ -
a	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.				₹ -
i	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.	Sqm	56.25	₹ 22.70	₹ 1,276.88
b	Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Mtr	34.68	₹ 200.70	₹ 6,960.28
1.07	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for pre-constructional anti-termite treatment and creating a continuous chemical barrier under and around the columns pits, wall trenches, top surface of plinth filling				₹ -
a	Chlorophyriphos (20% E.C.)	Sqm	121.67	₹ 75.00	₹ 9,125.06

	TOTAL EARTH WORK CARRIED OVER TO SUMMARY			DSR	₹	34,610.31
				MARKET RATE	₹	9,125.06
	TOTAL EARTH WORK CARRIED OVER TO SUMMARY				₹	43,735.37
2.0	CONCRETE WORK					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	10.10	₹	4,301.15	₹ 43,457.53
b	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	12.68	₹	4,004.00	₹ 50,760.63
2.02	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					₹ -
a	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	R.O.	₹	6,450.00	
2.03	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	Sqm	27.07	₹	257.80	₹ 6,978.90
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 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	Sqm	27.07	₹	132.00	₹ 3,573.37
						₹ -
2.04	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per bag of 50 Kg of cement used in the mix	6.93	₹	48.00	₹ 332.65
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sqm	56.25	₹	419.30	₹ 23,585.63
	TOTAL OF CONCRETE WORK CARRIED OVER TO SUMMARY					₹ 1,28,688.71
3.0	REINFORCED CEMENT CONCRETE					
3.01	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.					
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).					
a	All work upto plinth level.	Cum	24.58	₹	6,296.15	₹ 1,54,787.20
b	All work from plinth level upto floor V level.	Cum	79.06	₹	7,014.55	₹ 5,54,547.37
3.02	Centering and shuttering including strutting, propping etc. and removal of form for :					₹ -
a	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	30.60	₹	196.45	₹ 6,011.37

b	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm		₹	360.80	₹	-
c	Suspended floors, roofs, landings, balconies and access platform.	Sqm	300.28	₹	401.65	₹	1,20,606.50
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	328.91	₹	332.15	₹	1,09,246.20
e	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	438.71	₹	453.35	₹	1,98,890.09
f	Stairs, (excluding landings) except spiral-staircases.	Sqm	37.63	₹	395.65	₹	14,887.91
3.03	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					₹	-
a	Thermo-Mechanically Treated bars.	Kg.	2,704.29	₹	68.10	₹	1,84,161.89
3.04	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					₹	-
a	Thermo-Mechanically Treated bars.	Kg.	8,696.24	₹	68.10	₹	5,92,213.95
TOTAL OF R.C.C. WORK CARRIED OVER TO SUMMARY						₹	19,35,352.48
4.0	BRICK WORK						
4.01	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	29.91	₹	4,677.25	₹	1,39,911.84
4.02	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 :					₹	-
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	226.36	₹	5,426.15	₹	12,28,244.70
4.03	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					₹	-
a	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	184.04	₹	665.80	₹	1,22,533.83
4.04	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	184.04	₹	69.50	₹	12,790.78
TOTAL OF BRICK WORK CARRIED OVER TO SUMMARY						₹	15,03,481.16
5.0	WOOD WORK						
5.01	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :						
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	71.88	₹	1,909.55	₹	1,37,258.45
5.02	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	Sqm	71.88	₹	365.85	₹	26,297.30
						₹	-
5.03	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					₹	-
a	Fixed to steel windows by welding.	Kg	2,750.04	₹	109.00	₹	2,99,754.36
5.04	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :					₹	-
a	300x16 mm	Each	35.00	₹	173.00	₹	6,055.00
5.05	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :					₹	-
a	250 x 10mm	Each	35.00	₹	67.00	₹	2,345.00
b	150 x 10mm	Each	27.00	₹	46.00	₹	1,242.00
5.06	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :					₹	-
a	125 mm	Each	70.00	₹	29.00	₹	2,030.00

5.07	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				₹	-
a	Single rubber stopper.	Each	27.00	₹	37.50	₹ 1,012.50
TOTAL OF WOOD WORK CARRIED OVER TO SUMMARY						₹ 4,75,994.61
6.0	STEEL WORK					
6.01	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).					
a	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).	Kg	2,668.44	₹	191.90	₹ 5,12,073.64
6.02	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.					₹ -
a	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).	Kg	568.85	₹	83.70	₹ 47,612.75
6.03	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.					₹ -
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	544.84	₹	90.10	₹ 49,089.72
6.04	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.					₹ -
a	M.S. tube.	Kg	212.64	₹	104.70	₹ 22,263.16
6.05	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type) approved shape and section with screws instead of glazing clips and metal sash putty in steel doors, windows, ventilators and composite units.	Metre	646.72	₹	38.55	₹ 24,931.06
TOTAL OF STEEL WORK CARRIED OVER TO SUMMARY						₹ 6,55,970.32
7.0	FLOORING					
7.01	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume including cement slurry etc. complete :					
a	Ordinary cement without any pigment	Sqm	285.26	₹	590.10	₹ 1,68,329.57

7.02	Marble chips skirting (up to 30 cm height) rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :				₹	-
a	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :				₹	-
i	Ordinary cement without any pigment	Sqm	28.83	₹ 787.75	₹	22,713.98
7.03	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) :				₹	-
a	25 mm thick	Sqm	10.88	₹ 1,141.40	₹	12,418.43
7.04	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.	Sqm	172.14	₹ 836.65	₹	1,44,020.93
7.05	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.				₹	-
a	40 mm wide and 4 mm thick.	Metre	645.00	₹ 50.05	₹	32,282.25
TOTAL OF FLOORING CARRIED OVER TO SUMMARY					₹	3,79,765.16
8.0	ROOFING WORK					
8.01	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
a	1.00mm thick with zinc coating not less than 275gm/m ²	Sqm		₹ 1,030.50	₹	-
8.02	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.				₹	-
a	0.80mm thick with zinc coating not less than 275gm/m ²	M		₹ 568.90	₹	-
8.03	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				₹	-
a	In 75x75mm deep chase	M	104.90	₹ 143.10	₹	15,011.19
8.04	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 1mx1mx400micron, finished with 12mm 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	9.00	₹ 186.65	₹	1,679.85
8.05	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.				₹	-
a	110 mm diameter	M	60.90	₹ 231.65	₹	14,107.49

8.06	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.				₹	-
a	Single pushfit Coupler :				₹	-
i	110 mm	Each	16.00	₹	173.00	₹ 2,768.00
b	Single tee with door				₹	-
i	110x110x110 mm	Each	9.00	₹	306.60	₹ 2,759.40
c	Bend 87.5°				₹	-
i	110 mm	Each	9.00	₹	161.55	₹ 1,453.95
d	Shoe (Plain)				₹	-
i	110 mm Shoe	Each	9.00	₹	295.10	₹ 2,655.90
8.07	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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.				₹	-
a	110 mm	Each	35.00	₹	189.05	₹ 6,616.75
8.08	Providing and filling sinders in sunken slabs including light ramming.	Cum	5.24	₹	1,400.00	₹ 7,329.00
	TOTAL OF ROOFING CARRIED OVER TO SUMMARY				₹	54,381.53
9.0	FINISHING					
9.01	12 mm cement plaster of mix :					
a	1:6 (1 cement : 6 fine sand)	Sqm	248.45	₹	149.45	₹ 37,130.31
9.02	15 mm cement plaster on the rough side of single or half brick wall of mix :				₹	-
a	1:6 (1 cement : 6 fine sand)	Sqm	372.67	₹	172.80	₹ 64,397.31
9.03	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	Sqm	654.64	₹	241.00	₹ 1,57,767.76
9.04	6mm cement plaster of mix:				₹	-
a	1:3 (1 cement : 3 fine sand)	Sqm	340.85	₹	134.70	₹ 45,912.04
9.05	Applying priming coat :				₹	-
a	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	286.16	₹	32.95	₹ 9,428.87
9.06	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				₹	-
a	Two or more coats on new work	Sqm	67.50	₹	74.40	₹ 5,022.30
9.07	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				₹	-
a	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	286.16	₹	106.25	₹ 30,404.16
9.08	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				₹	-
a	Two or more coats on new work.	Sqm	961.96	₹	50.65	₹ 48,723.41
9.09	Finishing walls with water proofing cement paint of required shade :				₹	-
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	Sqm	654.64	₹	57.85	₹ 37,870.81
	TOTAL OF FINISHING CARRIED OVER TO SUMMARY				₹	4,36,656.95
10.0	MISCELLANEOUS CIVIL WORKS					
10.01	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres :					
a	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	75.00	₹	35.40	₹ 2,655.00
	TOTAL OF MISCELLANEOUS CIVIL WORK CARRIED OVER TO SUMMARY				₹	2,655.00

11.0	SANITARY FITTINGS				
11.01	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
a	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	4.00	₹ 3,392.80	₹ 13,571.20
11.02	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 :				₹ -
a	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	Each	4.00	₹ 1,807.10	₹ 7,228.40
11.03	Providing and fixing Stainless Steel A ISI 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 :				₹ -
a	Kitchen sink without drain board				₹ -
i	610x510 mm bowl depth 200 mm.	Each	4.00	₹ 4,343.45	₹ 17,373.80
11.04	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				₹ -
a	Semi rigid pipe				₹ -
i	32 mm dia	Each	4.00	₹ 76.75	₹ 307.00
ii	40 mm dia	Each	4.00	₹ 82.60	₹ 330.40
11.05	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	12.00	₹ 29.50	₹ 354.00
11.06	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	4.00	₹ 793.95	₹ 3,175.80
11.07	Providing and fixing soil, waste and vent pipes :				₹ -
a	100 mm dia.				₹ -
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	M	37.60	₹ 917.75	₹ 34,507.40
b	75 mm diameter				₹ -
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	M	69.60	₹ 791.30	₹ 55,074.48
11.08	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :				₹ -
a	For 100 mm dia. pipe	Each	8.00	₹ 152.90	₹ 1,223.20
b	For 75 mm dia. pipe	Each	8.00	₹ 150.60	₹ 1,204.80
11.09	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				₹ -
a	100 mm dia.				₹ -
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹ 385.70	₹ 1,542.80
b	75 mm diameter				₹ -
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹ 318.50	₹ 3,822.00
11.10	Providing and fixing plain bend of required degree.				₹ -
a	100 mm dia.				₹ -
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹ 335.75	₹ 1,343.00
b	75 mm diameter				₹ -
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹ 248.80	₹ 2,985.60
11.11	Providing and fixing heel rest sanitary bend				₹ -
a	100 mm dia.				₹ -
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹ 371.75	₹ 743.50
b	75 mm diameter				₹ -
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹ 312.70	₹ 625.40

11.12	Providing and fixing double equal plain junction of required degree.				₹	-
a	75x75x75x75mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹ 558.90	₹	2,235.60
11.13	Providing and fixing single equal plain junction of required degree :				₹	-
a	100x100x100mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹ 623.80	₹	2,495.20
b	75x75x75mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹ 472.95	₹	1,891.80
11.14	Providing and fixing terminal guard:				₹	-
a	100 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹ 434.50	₹	869.00
b	75 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹ 370.75	₹	741.50
11.15	Providing and fixing collar:				₹	-
a	100 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹ 318.35	₹	1,273.40
b	75 mm				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹ 219.75	₹	2,637.00
11.16	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:				₹	-
a	100 mm	Each	48.00	₹ 243.75	₹	11,700.00
b	75 mm	Each	112.00	₹ 205.30	₹	22,993.60
11.17	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :				₹	-
a	100 mm	Each	2.00	₹ 68.60	₹	137.20
b	75 mm	Each	2.00	₹ 57.15	₹	114.30
11.18	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				₹	-
a	100 mm inlet and 100 mm outlet				₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹ 982.55	₹	11,790.60
11.19	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				₹	-
a	100 mm dia	M	0.92	₹ 332.00	₹	305.44
b	75 mm dia	M	2.76	₹ 237.60	₹	655.78
11.20	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				₹	-
a	100 mm diameter pipe	M	19.60	₹ 38.65	₹	757.54
b	75 mm diameter pipe	M	27.60	₹ 29.50	₹	814.20
	TOTAL OF SANITARY FITTINGS CARRIED OVER TO SUMMARY				₹	2,06,824.94
12.0	WATER SUPPLY					
12.01	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
a	Internal work – Exposed on wall.					
i	20 mm dia. nominal bore	M	80.00	₹ 249.30	₹	19,944.00
12.02	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall				₹	-
i	15 mm dia nominal bore	M	120.00	₹ 306.05	₹	36,726.00
12.03	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				₹	-
a	External work				₹	-
i	40mm dia. nominal bore	M	50.00	₹ 334.15	₹	16,707.50

12.04	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 :				₹	-
a	25 to 40 mm nominal bore	Each	1.00	₹	367.75	₹ 367.75
12.05	Providing and fixing brass bib cock of approved quality :				₹	-
a	15 mm nominal bore	Each	20.00	₹	260.60	₹ 5,212.00
12.06	Providing and fixing brass stop cock of approved quality :				₹	-
a	15 mm nominal bore	Each	16.00	₹	260.60	₹ 4,169.60
12.07	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				₹	-
a	25 mm nominal bore	Each	1.00	₹	428.85	₹ 428.85
12.08	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				₹	-
a	15 mm nominal bore	Each	4.00	₹	288.50	₹ 1,154.00
12.09	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				₹	-
a	20 mm diameter pipe.	M	80.00	₹	11.35	₹ 908.00
b	25 mm diameter pipe.	M	0.00	₹	14.95	₹ -
12.10	Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work.				₹	-
a	40 mm dia. pipe.	M	50.00	₹	71.75	₹ 3,587.50
12.11	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				₹	-
a	15 mm nominal bore.	Each	16.00	₹	165.25	₹ 2,644.00
b	20 mm nominal bore.	Each	4.00	₹	188.50	₹ 754.00
12.12	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Per Litre	2000.00	₹	5.25	₹ 10,500.00
	TOTAL OF WATER SUPPLY CARRIED OVER TO SUMMARY				₹	1,03,103.20
13.0	DRAINAGE					
13.01	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 :					
a	100 mm diameter	M	10.00	₹	206.55	₹ 2,065.50
b	150 mm diameter	M	10.00	₹	314.35	₹ 3,143.50
13.02	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:				₹	-
a	100 mm diameter S.W. pipe	M	10.00	₹	592.60	₹ 5,926.00
b	150 mm diameter S.W. pipe	M	10.00	₹	724.70	₹ 7,247.00
c	250 mm diameter S.W./ RCC pipe	M	0.00	₹	977.00	₹ -
13.03	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 :				₹	-
a	100x100 mm size P type				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	₹	1,571.25	₹ 3,142.50
13.04	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				₹	-
a	150 mm dia. R.C.C. pipe	M	10.00	₹	348.30	₹ 3,483.00

13.05	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				₹	-	
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				₹	-	
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3.00	₹ 8,507.00	₹	25,521.00	
13.06	Extra for depth for manholes				₹	-	
	Size 90x80 cm				₹	-	
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	M	0.30	₹ 5,638.20	₹	1,691.46	
13.07	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread 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	6.60	₹ 311.60	₹	2,056.56	
TOTAL OF DRAINAGE CARRIED OVER TO SUMMARY						₹	54,276.52
14.0	WATER PROOFING WORK						
14.01	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 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm 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 2.75kg/ 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 3mm 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 :				
a	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	Sqm	154.66	₹ 1,019.05	₹ 1,57,611.16
14.02	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
i	Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
ii	IIInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
iii	IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.				
iv	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)	Sqm	40.62	₹ 522.90	₹ 21,240.20
	TOTAL OF WATER PROOFING WORK CARRIED OVER TO SUMMARY				₹ 1,78,851.36

Staff Quarter Type V NARAYANPUR

SUMMARY OF COST

Sl. No.	Sub head	Total Amount
1	EARTH WORK	₹ 91,368.91
2	CONCRETE WORK	₹ 1,57,419.38
3	REINFORCED CEMENT CONCRETE	₹ 11,07,653.63
4	BRICK WORK	₹ 3,95,993.16
5	WOOD WORK	₹ 2,30,980.65
6	STEEL WORK	₹ 3,59,530.30
7	FLOORING	₹ 2,33,922.86
8	ROOFING WORK	₹ 24,609.83
9	FINISHING	₹ 4,53,134.00
10	MISCELLANEOUS CIVIL WORKS	₹ 2,655.00
11	SANITARY FIXING	₹ 1,97,819.34
12	WATER SUPPLY	₹ 1,03,103.20
13	DRAINAGE	₹ 93,713.52
11	WATER PROOFING WORK	₹ 2,15,065.41
	GRAND TOTAL	₹ 36,66,969.17
	Electrical	₹ 3,94,960.00
	Total	₹ 40,61,929.17

Proposed Kendriya Vidyalaya Narayanpur

Estimate Staff Quarter Type V

ITEM NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE (RS)	AMOUNT (RS)
1.0	EARTH WORK				
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	Cum		₹ 157.50	₹ -
1.02	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				₹ -
	Ordinary rock	Cum	162.66	₹ 263.50	₹ 42,859.80
	Hard rock (requiring blasting)	Cum		₹ 454.35	₹ -
	Hard rock (blasting prohibited)	Cum		₹ 620.55	₹ -
1.02	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				₹ -
a	All kinds of soil				₹ -
i	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	M		₹ 165.60	₹ -
	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth up to 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50m :				₹ -
	Ordinary rock :				₹ -
	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	Cum	30.00	₹ 450.30	₹ 13,509.00
	Hard rock (blasting prohibited)				₹ -
	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	Cum		₹ 676.25	₹ -
					₹ -
	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	Cum		₹ 870.70	₹ -
1.04	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 m and lift upto 1.5 m.	Cum	123.32	₹ 112.40	₹ 13,860.88

1.03	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				₹	-
a	All kinds of soil.	Cum		₹ 46.00	₹	-
	Ordinary or hard rock.	Cum		₹ 83.00	₹	-
1.05	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	-	₹ 910.25	₹	-
1.06	Supplying chemical emulsion in sealed containers including delivery as specified.				₹	-
a	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	Ltr	27.45	₹ 185.95	₹	5,104.33
1.07	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				₹	-
a	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.				₹	-
i	With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	Sqm	56.25	₹ 22.70	₹	1,276.88
b	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Mtr	27.45	₹ 200.70	₹	5,509.22
1.07	Diluting and injecting chemical emulsion (to be supplied free of cost at site of work) for pre-constructional anti-termite treatment and creating a continuous chemical barrier under and around the columns pits, wall trenches, top surface of plinth filling				₹	-
a	Chlorophyriphos (20% E.C.)	Sqm	123.32	₹ 75.00	₹	9,248.81
TOTAL EARTH WORK CARRIED OVER TO SUMMARY					₹	91,368.91
2.0	CONCRETE WORK					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	13.06	₹ 4,301.15	₹	56,157.41
b	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	17.23	₹ 4,004.00	₹	69,002.11
2.02	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor,etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				₹	-
a	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum		₹ 6,450.00	₹	-
2.03	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	Sqm	22.32	₹ 257.80	₹	5,755.08
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 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	Sqm	22.32	₹ 132.00	₹	2,946.74
					₹	-
2.04	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per bag of 50 Kg of cement used in the mix	5.71	₹ 48.00	₹	274.31

2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sqm	55.53	₹	419.30	₹	23,283.73	
TOTAL OF CONCRETE WORK CARRIED OVER TO SUMMARY							₹	1,57,419.38
3.0	REINFORCED CEMENT CONCRETE							
3.01	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.							
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).							
a	All work upto plinth level.	Cum	18.69	₹	6,296.15	₹	1,17,698.78	
b	All work from plinth level upto floor V level.	Cum	41.88	₹	7,014.55	₹	2,93,734.46	
3.02	Centering and shuttering including strutting, propping etc. and removal of form for :					₹	-	
a	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	11.40	₹	196.45	₹	2,239.53	
b	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm		₹	360.80	₹	-	
c	Suspended floors, roofs, landings, balconies and access platform.	Sqm	204.90	₹	401.65	₹	82,298.79	
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	310.12	₹	332.15	₹	1,03,006.14	
e	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	121.22	₹	453.35	₹	54,955.09	
f	Stairs, (excluding landings) except spiral-staircases.	Sqm	-	₹	395.65	₹	-	
3.03	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					₹	-	
a	Thermo-Mechanically Treated bars.	Kg.	2,056.31	₹	68.10	₹	1,40,035.03	
3.04	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					₹	-	
a	Thermo-Mechanically Treated bars.	Kg.	4,606.25	₹	68.10	₹	3,13,685.81	
TOTAL OF R.C.C. WORK CARRIED OVER TO SUMMARY							₹	11,07,653.63
4.0	BRICK WORK							
4.01	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:							
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	7.59	₹	4,677.25	₹	35,492.08	
4.02	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 :					₹	-	
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	43.53	₹	5,426.15	₹	2,36,212.95	
4.03	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					₹	-	

a	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	169.03	₹	665.80	₹	1,12,540.51
4.04	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	169.03	₹	69.50	₹	11,747.62
	TOTAL OF BRICK WORK CARRIED OVER TO SUMMARY					₹	3,95,993.16
5.0	WOOD WORK						
5.01	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :						
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	65.88	₹	1,909.55	₹	1,25,801.15
5.02	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	Sqm	65.88	₹	365.85	₹	24,102.20
						₹	-
5.03	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					₹	-
a	Fixed to steel windows by welding.	Kg	673.20	₹	109.00	₹	73,378.80
5.04	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :					₹	-
a	300x16 mm	Each	19.00	₹	173.00	₹	3,287.00
5.05	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :					₹	-
a	250 x 10mm	Each	19.00	₹	67.00	₹	1,273.00
b	150 x 10mm	Each	19.00	₹	46.00	₹	874.00
5.06	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :					₹	-
a	125 mm	Each	38.00	₹	29.00	₹	1,102.00
5.07	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.					₹	-
a	Single rubber stopper.	Each	31.00	₹	37.50	₹	1,162.50
	TOTAL OF WOOD WORK CARRIED OVER TO SUMMARY					₹	2,30,980.65
6.0	STEEL WORK						
6.01	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).						
a	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).	Kg	1,346.40	₹	191.90	₹	2,58,374.16

6.02	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.				₹	-
a	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).	Kg	480.48	₹	83.70	₹ 40,215.76
6.03	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.				₹	-
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	352.67	₹	90.10	₹ 31,775.39
6.04	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				₹	-
a	M.S. tube.	Kg	183.34	₹	104.70	₹ 19,195.97
6.05	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type) approved shape and section with screws instead of glazing clips and metal sash putty in steel doors, windows, ventilators and composite units.	Metre	258.60	₹	38.55	₹ 9,969.03
	TOTAL OF STEEL WORK CARRIED OVER TO SUMMARY				₹	3,59,530.30
7.0	FLOORING					
7.01	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume including cement slurry etc. complete :					
a	Ordinary cement without any pigment	Sqm	177.51	₹	590.10	₹ 1,04,747.44
7.02	Marble chips skirting (up to 30 cm height) rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :				₹	-
a	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :				₹	-
i	Ordinary cement without any pigment	Sqm	11.63	₹	787.75	₹ 9,165.08
7.03	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) :				₹	-
a	25 mm thick	Sqm	5.13	₹	1,141.40	₹ 5,855.38

7.04	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.	Sqm	97.11	₹	836.65	₹	81,247.08	
7.05	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.					₹	-	
a	40 mm wide and 4 mm thick.	Metre	657.50	₹	50.05	₹	32,907.88	
TOTAL OF FLOORING CARRIED OVER TO SUMMARY							₹	2,33,922.86
8.0	ROOFING WORK							
8.01	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.							
a	1.00mm thick with zinc coating not less than 275gm/m ²	Sqm		₹	1,030.50	₹	-	
8.02	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.					₹	-	
a	0.80mm thick with zinc coating not less than 275gm/m ²	M		₹	568.90	₹	-	
8.03	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :					₹	-	
a	In 75x75mm deep chase	M	72.25	₹	143.10	₹	10,338.98	
8.04	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 1mx1mx400micron, finished with 12mm 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	6.00	₹	186.65	₹	1,119.90	
8.05	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.					₹	-	
a	110 mm diameter	M	18.00	₹	231.65	₹	4,169.70	
8.06	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.					₹	-	
a	Single pushfit Coupler :					₹	-	
i	110 mm	Each	8.00	₹	173.00	₹	1,384.00	
b	Single tee with door					₹	-	
i	110x110x110 mm	Each	5.00	₹	306.60	₹	1,533.00	
c	Bend 87.5°					₹	-	
i	110 mm	Each	5.00	₹	161.55	₹	807.75	
d	Shoe (Plain)					₹	-	

i	110 mm Shoe	Each	5.00	₹ 295.10	₹ 1,475.50
8.07	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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.				₹ -
a	110 mm	Each	20.00	₹ 189.05	₹ 3,781.00
8.08	Providing and filling sinders in sunken slabs including light ramming.	Cum	-	₹ 1,400.00	₹ -
TOTAL OF ROOFING CARRIED OVER TO SUMMARY					₹ 24,609.83
					₹ -
9.0	FINISHING				
9.01	12 mm cement plaster of mix :				
a	1:6 (1 cement : 6 fine sand)	Sqm	301.12	₹ 149.45	₹ 45,002.50
9.02	15 mm cement plaster on the rough side of single or half brick wall of mix :				₹ -
a	1:6 (1 cement : 6 fine sand)	Sqm	451.68	₹ 172.80	₹ 78,050.51
9.03	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	Sqm	658.17	₹ 241.00	₹ 1,58,618.97
9.04	6mm cement plaster of mix:				₹ -
a	1:3 (1 cement : 3 fine sand)	Sqm	303.69	₹ 134.70	₹ 40,907.64
9.05	Applying priming coat :				₹ -
a	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	274.46	₹ 32.95	₹ 9,043.59
9.06	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				₹ -
a	Two or more coats on new work	Sqm	67.50	₹ 74.40	₹ 5,022.30
9.07	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				₹ -
a	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	274.46	₹ 106.25	₹ 29,161.80
9.08	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				₹ -
a	Two or more coats on new work.	Sqm	972.39	₹ 50.65	₹ 49,251.55
9.09	Finishing walls with water proofing cement paint of required shade :				₹ -
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	Sqm	658.17	₹ 57.85	₹ 38,075.13
TOTAL OF FINISHING CARRIED OVER TO SUMMARY					₹ 4,53,134.00
10.0	MISCELLANEOUS CIVIL WORKS				
10.01	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres :				
a	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	75.00	₹ 35.40	₹ 2,655.00
TOTAL OF MISCELLANEOUS CIVIL WORK CARRIED OVER TO SUMMARY					₹ 2,655.00
SANITARY FITTINGS					

10.02	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :					
a	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	4.00	₹	3,392.80	₹ 13,571.20
10.03	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 :					₹ -
a	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	Each	4.00	₹	1,807.10	₹ 7,228.40
10.04	Providing and fixing Stainless Steel A ISI 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 :					₹ -
a	Kitchen sink without drain board					₹ -
i	610x510 mm bowl depth 200 mm.	Each	2.00	₹	4,343.45	₹ 8,686.90
10.05	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					₹ -
a	Semi rigid pipe					₹ -
i	32 mm dia	Each	2.00	₹	76.75	₹ 153.50
ii	40 mm dia	Each	2.00	₹	82.60	₹ 165.20
10.06	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	12.00	₹	29.50	₹ 354.00
10.07	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	4.00	₹	793.95	₹ 3,175.80
10.08	Providing and fixing soil, waste and vent pipes :					₹ -
a	100 mm dia.					₹ -
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	M	37.60	₹	917.75	₹ 34,507.40
b	75 mm diameter					₹ -
i	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	M	69.60	₹	791.30	₹ 55,074.48
10.09	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :					₹ -
a	For 100 mm dia. pipe	Each	8.00	₹	152.90	₹ 1,223.20
b	For 75 mm dia. pipe	Each	8.00	₹	150.60	₹ 1,204.80
10.10	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					₹ -
a	100 mm dia.					₹ -
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	385.70	₹ 1,542.80
b	75 mm diameter					₹ -
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	318.50	₹ 3,822.00
10.11	Providing and fixing plain bend of required degree.					₹ -
a	100 mm dia.					₹ -
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	335.75	₹ 1,343.00
b	75 mm diameter					₹ -
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	248.80	₹ 2,985.60
10.12	Providing and fixing heel rest sanitary bend					₹ -
a	100 mm dia.					₹ -

i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	371.75	₹	743.50
b	75 mm diameter					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	312.70	₹	625.40
10.13	Providing and fixing double equal plain junction of required degree.					₹	-
a	75x75x75x75mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	558.90	₹	2,235.60
10.14	Providing and fixing single equal plain junction of required degree :					₹	-
a	100x100x100mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	623.80	₹	2,495.20
b	75x75x75mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	472.95	₹	1,891.80
10.15	Providing and fixing terminal guard:					₹	-
a	100 mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	434.50	₹	869.00
b	75 mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	2.00	₹	370.75	₹	741.50
10.16	Providing and fixing collar:					₹	-
a	100 mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	4.00	₹	318.35	₹	1,273.40
b	75 mm					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	219.75	₹	2,637.00
10.17	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:					₹	-
a	100 mm	Each	48.00	₹	243.75	₹	11,700.00
b	75 mm	Each	112.00	₹	205.30	₹	22,993.60
10.18	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :					₹	-
a	100 mm	Each	2.00	₹	68.60	₹	137.20
b	75 mm	Each	2.00	₹	57.15	₹	114.30
10.19	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :					₹	-
a	100 mm inlet and 100 mm outlet					₹	-
i	Sand cast iron S&S as per IS - 3989	Each	12.00	₹	982.55	₹	11,790.60
10.20	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :					₹	-
a	100 mm dia	M	0.92	₹	332.00	₹	305.44
b	75 mm dia	M	2.76	₹	237.60	₹	655.78
10.21	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :					₹	-
a	100 mm diameter pipe	M	19.60	₹	38.65	₹	757.54
b	75 mm diameter pipe	M	27.60	₹	29.50	₹	814.20
	TOTAL OF SANITARY FITTINGS CARRIED OVER TO SUMMARY					₹	1,97,819.34
12.0	WATER SUPPLY						
12.01	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.						
a	Internal work – Exposed on wall.						

i	20 mm dia. nominal bore	M	80.00	₹	249.30	₹	19,944.00	
12.02	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall					₹	-	
i	15 mm dia nominal bore	M	120.00	₹	306.05	₹	36,726.00	
12.03	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					₹	-	
	External work					₹	-	
a	40mm dia. nominal bore	M	50.00	₹	334.15	₹	16,707.50	
12.04	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 :					₹	-	
a	25 to 40 mm nominal bore	Each	1.00	₹	367.75	₹	367.75	
12.05	Providing and fixing brass bib cock of approved quality :					₹	-	
a	15 mm nominal bore	Each	20.00	₹	260.60	₹	5,212.00	
12.06	Providing and fixing brass stop cock of approved quality :					₹	-	
a	15 mm nominal bore	Each	16.00	₹	260.60	₹	4,169.60	
12.07	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					₹	-	
a	25 mm nominal bore	Each	1.00	₹	428.85	₹	428.85	
12.08	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					₹	-	
a	15 mm nominal bore	Each	4.00	₹	288.50	₹	1,154.00	
12.09	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :					₹	-	
a	20 mm diameter pipe.	M	80.00	₹	11.35	₹	908.00	
b	25 mm diameter pipe.	M	0.00	₹	14.95	₹	-	
12.10	Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work.					₹	-	
a	40 mm dia. pipe.	M	50.00	₹	71.75	₹	3,587.50	
12.11	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)					₹	-	
a	15 mm nominal bore.	Each	16.00	₹	165.25	₹	2,644.00	
b	20 mm nominal bore.	Each	4.00	₹	188.50	₹	754.00	
12.12	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Per Litre	2000.00	₹	5.25	₹	10,500.00	
TOTAL OF WATER SUPPLY CARRIED OVER TO SUMMARY						₹	1,03,103.20	
13.0	DRAINAGE							
13.01	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 :							
a	100 mm diameter	M	10.00	₹	206.55	₹	2,065.50	
b	150 mm diameter	M	10.00	₹	314.35	₹	3,143.50	
13.02	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:					₹	-	
a	100 mm diameter S.W. pipe	M	10.00	₹	592.60	₹	5,926.00	
b	150 mm diameter S.W. pipe	M	50.00	₹	724.70	₹	36,235.00	
c	250 mm diameter S.W./ RCC pipe	M	0.00	₹	977.00	₹	-	

13.03	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 :				₹	-
a	100x100 mm size P type				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	₹	1,571.25	₹ 3,142.50
13.04	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				₹	-
a	150 mm dia. R.C.C. pipe	M	40.00	₹	348.30	₹ 13,932.00
13.05	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				₹	-
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3.00	₹	8,507.00	₹ 25,521.00
13.06	Extra for depth for manholes				₹	-
	Size 90x80 cm				₹	-
i	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	M	0.30	₹	5,638.20	₹ 1,691.46
13.07	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread 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	6.60	₹	311.60	₹ 2,056.56
	TOTAL OF DRAINAGE CARRIED OVER TO SUMMARY				₹	93,713.52
14.0	WATER PROOFING WORK					

14.01	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 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm 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 2.75kg/ 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 3mm 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 :				
a	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	Sqm	211.05	₹ 1,019.05	₹ 2,15,065.41
14.02	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
i	Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
ii	IInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
iii	IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.				
iv	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)	Sqm	-	₹ 522.90	₹ -
	TOTAL OF WATER PROOFING WORK CARRIED OVER TO SUMMARY				₹ 2,15,065.41

ABSTRACT

NAME OF THE WORK : CAMPUS DEVELOPMENT WORKS FOR K.V. NARAYANPUR

ITEM	NAME OF SUB HEAD	AMOUNT
1	Site Clearance	
a	Cleaning of Jungle (Leveling & Dressing of campus)	₹ 1,60,500.00
b	Cutting & Filling	₹ 12,61,038.00
	Total	₹ 14,21,538.00
2	Internal Roads & Pathways	
a	Internal Roads	₹ 17,35,379.00
b	1.80 M wide pathways	₹ 5,37,803.00
	Total	₹ 22,73,182.00
3	Water Supply	
a	Filter Water Distribution Lines 100 mm dia & Below.	₹ 7,66,463.48
b	Tube well Boring	₹ 10,69,530.00
c	Chlorinator	₹ 50,000.00
	Total	₹ 18,85,993.48
4	Provision of External Electrical Works	₹ 49,53,315.00
	Total	₹ 49,53,315.00
5	Sewer Line with Septic Tank	
a	Sewer Line	₹ 11,38,850.00
b	Septic Tank	₹ 6,89,875.23
	Total	₹ 18,28,725.23
6	Storm Water Drains	₹ 28,81,594.00
	Total	₹ 28,81,594.00
7	Boundary wall & Gates	
a	Boundary wall	₹ 99,54,033.00
b	Gate (3 Nos.)	₹ 2,05,422.00
	Total	₹ 1,01,59,455.00
8	Cycle Stand	₹ 4,35,451.00
	Total	₹ 4,35,451.00
9	Levelling & Dressing of Campus	₹ 1,60,500.00
	Total	₹ 1,60,500.00
10	Sports Facility	₹ 10,49,023.55
	Step Sitting	₹ 10,22,458.86
	Total	₹ 20,71,482.41
11	Canteen & Security Hut	
a	Security Hut (2 Nos.)	₹ 3,99,643.00

b	Canteen (1 Nos.)	₹	3,46,786.70
	Total	₹	7,46,429.70
12	Other Items		
a	Morning Assembly & Stage	₹	9,51,535.00
b	Rain Water Harvesting	₹	2,37,107.25
c	Under Ground Sump (2 Nos of 50 KL each)	₹	14,49,396.00
d	Submersible pump, control panel, cable for tubewell.	₹	1,27,600.00
e	Borewell	₹	1,56,500.00
f	Water trough	₹	1,72,759.00
g	Pomp House & Booster pumps	₹	3,69,503.75
	Total	₹	34,64,401.00
	Covering of Open Court Yard	₹	1,07,46,959.91
13	Total	₹	4,30,29,026.74
	SAY TOTAL	₹	4,30,29,027.00

ABSTRACT OF COST

INTERNAL ROAD

S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	1652.33	Sqm	₹ 81.30	₹ 1,34,334.43
2	Supplying and stacking at site.				
a	63 mm to 45 mm size stone aggregate.	300.72	Cum	₹ 1,348.20	₹ 4,05,436.18
b	53 mm to 22.4 mm size stone aggregate.	150.36	Cum	₹ 1,354.00	₹ 2,03,590.19
c	Stone screening 11.2 mm nominal size (Type B).	95.84	Cum	₹ 1,471.00	₹ 1,40,973.49
d	Red bajri	51.22	Cum	₹ 1,459.40	₹ 74,753.72
3	Laying spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density .	371.77	Cum	₹ 425.05	₹ 1,58,022.64
4	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2mm and 11.2mm size respectively per 100 sqm. and 52 kg. and 56 kg. of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete. (tack coat to be paid for separately) :				
a	With paving Asphalt 80/100 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt.	1652.33	Sqm	₹ 211.60	₹ 3,49,633.03
5	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	50.73	Cum	₹ 5,295.90	₹ 2,68,635.59
TOTAL					₹ 17,35,379.00
1.80 M WIDE PATHWAYS					
ABSTRACT OF COST					

S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	493.00	Sqm	₹ 81.30	₹ 40,080.90
2	Supplying and stacking at site.				
a	53 mm to 22.4 mm size stone aggregate.	45.00	Cum	₹ 1,354.00	₹ 60,930.00
b	Stone screenings 11.2 mm. nominal size (Type B)	9.00	Cum	₹ 1,471.00	₹ 13,239.00
c	Moorum	4.44	Cum	₹ 646.35	₹ 2,867.85
3	Laying spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density.	36.98	Cum	₹ 425.05	₹ 15,716.22
4	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	383.44	Sqm	₹ 602.20	₹ 2,30,910.24
5	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	32.87	Cum	₹ 5,295.90	₹ 1,74,058.58
TOTAL					₹ 5,37,803.00
GATE'S					
ABSTRACT OF COST					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	9.00	Cum	₹ 157.50	₹ 1,417.50

2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	9.00	Cum	₹ 5,335.25	₹ 48,017.25
3	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.				
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	1700.00	Kg	₹ 90.10	₹ 1,53,170.00
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	35.00	Sqm	₹ 80.50	₹ 2,817.50
Total Cost of 2 no. Gate					₹ 2,05,422.00
Total Cost of Gates					₹ 2,05,422.00
Drain of size 0.30 M wide, 0.45 M high					
ABSTRACT OF COST					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	851.28	Cum	₹ 157.50	₹ 1,34,076.60
2	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 m and lift up to 1.5 m.	170.26	Cum	₹ 112.40	₹ 19,136.77
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	113.50	Cum	₹ 4,004.00	₹ 4,54,470.02
4	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement Mortar 1:6 (1cement : 6 coarse sand)	339.38	Cum	₹ 4,677.25	₹ 15,87,350.89
5	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.				
a	40mm thick with 20mm nominal size stone aggregate.	340.51	Sqm	₹ 353.35	₹ 1,20,319.92
6	20mm cement plaster finished with a floating coat of neat cement of mix :				
a	1:4 (1 cement : 4 fine sand)	1997.67	Sqm	₹ 283.45	₹ 5,66,239.67
Total					₹ 28,81,594.00
WATER SUPPLY SYSTEM					

S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. : External work				
a	External work				
i	32mm dia. nominal bore	250.00	M	₹ 281.05	₹ 70,262.50
ii	40 mm dia. nominal bore	400.00	M	₹ 334.15	₹ 1,33,660.00
iii	50mm dia. nominal bore	100.00	M	₹ 399.50	₹ 39,950.00
2	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 :				
a	50 to 80 mm nominal bore	1.00	Each	₹ 761.10	₹ 761.10
3	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
i	32mm dia. nominal bore	250.00	M	₹ 10.40	₹ 2,600.00
ii	40 mm diameter pipe	400.00	M	₹ 11.85	₹ 4,740.00
iii	50mm dia. nominal bore	100.00	M	₹ 14.15	₹ 1,415.00
4	Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work.				
i	32mm dia. nominal bore	250.00	M	₹ 70.85	₹ 17,712.50
ii	40 mm diameter pipe	400.00	M	₹ 71.75	₹ 28,700.00
iii	50mm dia. nominal bore	100.00	M	₹ 74.45	₹ 7,445.00
				Total	₹ 3,07,246.10
				Add 3% for fittings	₹ 9,217.38
					₹ 3,16,463.48
5	Cost of C/o 50000 Ltr U.G.Tank	50000.00	Litre	₹ 9.00	₹ 4,50,000.00
				Total Grand	₹ 7,66,463.48
WATER TROUGH					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	6.00	Cum	₹ 157.50	₹ 945.00
2	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 m and lift up to 1.5 m.	5.00	Cum	₹ 112.40	₹ 562.00
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				

a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	2.00	Cum	₹ 4,004.00	₹ 8,008.00
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 :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	1.00	Cum	₹ 6,230.20	₹ 6,230.20
5	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with:				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	0.50	cum	₹ 7,282.50	₹ 3,641.25
6	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns etc. for mass concrete.	2.00	Sqm	₹ 196.45	₹ 392.90
b	Suspended floors, roofs, landings, balconies and access platform.	4.00	Sqm	₹ 401.65	₹ 1,606.60
7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	145.00	Kg	₹ 68.10	₹ 9,874.50
8	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	1.00	Cum	₹ 4,677.25	₹ 4,677.25
9	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.50	Cum	₹ 5,426.15	₹ 8,139.23
10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	1.00	Sqm	₹ 257.80	₹ 257.80
11	Applying a coat of residual petroleum bitumen of penetration 80/100 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	7.00	Sqm	₹ 132.00	₹ 924.00
12	12 mm cement plaster of mix :	5.40	Sqm	₹ 149.45	₹ 807.03
a	1:6 (1 cement : 6 fine sand)				
13	Stone tile work for wall lining upto 10 m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.				
a	8mm thick (mirror polished and machine cut edge)				
i	Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble.	5.40	Sqm	₹ 1,486.90	₹ 8,029.26
14	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.				
a	40mm thick with 20mm nominal size stone aggregate.	6.00	Sqm	₹ 353.35	₹ 2,120.10

15	Brick on edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S. bricks:				
a	1:6 (1cement : 6 coarse sand)	6.00	Sqm	₹ 630.10	₹ 3,780.60
16	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.				
a	40 mm wide and 4 mm thick.	15.00	M	₹ 50.05	₹ 750.75
17	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
a	Electric resistance or induction butt welded tubes.	670.00	Kg	₹ 123.65	₹ 82,845.50
18	Providing non-asbestos high impact Polypropylene reinforced cement 6mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses: corrugated sheets and including cutting to size and shape wherever required.	25.00	Sqm	₹ 396.10	₹ 9,902.50
19	Finishing walls with water proofing cement paint of required shade :				
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	7.00	Sqm	₹ 57.85	₹ 404.95
20	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	25.00	Sqm	₹ 74.40	₹ 1,860.00
21	Cost for water supply			LS	₹ 10,000.00
22	Cost for sanitation			LS	₹ 2,000.00
23	Cost for soak pit			LS	₹ 5,000.00
	TOTAL				₹ 1,72,759.00
SEWER LINE					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soils as directed, within a lead of 50 m.				
a	All kinds of soil.				
i	Pipes, cables etc. exceeding 80mm dia. but not exceeding 300 mm dia	301.14	M	₹ 208.30	₹ 62,727.46
2	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.		Cum	₹ 910.25	₹ -

3	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:				
a	150 mm diameter S.W. pipe	301.14	M	₹ 724.70	₹ 2,18,236.16
4	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
a	150 mm dia. R.C.C. pipe	301.14	Metre	₹ 348.30	₹ 1,04,887.06
5	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design :				
a	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :				
i	With F.P.S. bricks class designation 75	22.00	Each	₹ 8,738.55	₹ 1,92,248.10
6	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m				
a	With F.P.S. bricks class designation 75	6.60	M	₹ 4,842.40	₹ 31,959.84
7	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread 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.	92.40	Each	₹ 311.60	₹ 28,791.84
8	C/O of Septic Tank	1.00	Each	LS	₹ 5,00,000.00
				TOTAL	₹ 11,38,850.00
SECURITY HUT					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT

1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	21.00	Cum	₹ 157.50	₹ 3,307.50
2	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 m and lift up to 1.5 m.	15.00	Cum	₹ 112.40	₹ 1,686.00
3	Filling of carted earth as per site condition for Black cotton soil filling of Hard yellow soil mixed with kankar say or Murum including filling watering ramming etc. complete.	2.00	CUM	₹ 225.00	₹ 450.00
4	Supplying chemical emulsion in sealed containers including delivery as specified.				
a	Chlorpyriphos/Lindane emulsifiable concentrate of 20%	34.00	Ltr	₹ 185.95	₹ 6,322.30
5	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
a	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
i	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	18.00	Sqm	₹ 118.90	₹ 2,140.20
6	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	1.00	Cum	₹ 4,004.00	₹ 4,004.00
7	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	5.00	Sqm	₹ 257.80	₹ 1,289.00
8	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	1.00	per 50 kg cement	₹ 48.15	₹ 48.15
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 :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	5.00	Cum	₹ 6,230.20	₹ 31,151.00
10	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with:				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.00	Cum	₹ 7,282.50	₹ 21,847.50
11	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	Suspended floors, roofs, landings, balconies and access platform.	51.00	Sqm	₹ 401.65	₹ 20,484.15

b	Lintels, beams, plinth beams, grinders, bressumers and cantilevers.	6.00	Sqm	₹ 332.15	₹ 1,992.90
12	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	653.00	Kg	₹ 68.10	₹ 44,469.30
13	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	21.00	Cum	₹ 4,677.25	₹ 98,222.25
14	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	15.00	Cum	₹ 5,426.15	₹ 81,392.25
15	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 teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4.00	Sqm	₹ 1,909.55	₹ 7,638.20
16	Providing and fixing aluminium 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	300x16 mm	2.00	Each	₹ 229.65	₹ 459.30
17	Providing and fixing aluminium tower 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 necessary screws etc. complete:				
a	250 x 10mm	2.00	Each	₹ 95.25	₹ 190.50
b	150 x 10mm	2.00	Each	₹ 65.35	₹ 130.70
18	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side/ top/ centre hung with beading and all members such as K11B and K12B etc. complete of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required as per approved design.	50.00	Kg	₹ 230.45	₹ 11,522.50
19	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	16.00	Kg	₹ 83.70	₹ 1,339.20

20	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	15.00	sqm	₹ 1,405.95	₹ 21,089.25
21	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.				
a	40 mm wide and 4 mm thick.		M	₹ 50.05	₹ -
22	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.				
a	18 mm thick	1.00	Sqm	₹ 337.25	₹ 337.25
23	Cement plaster				
a	12 mm cement plaster of mix :	55.00	Sqm	₹ 149.45	₹ 8,219.75
24	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a	1:6 (1 cement : 6 fine sand)	100.00	Sqm	₹ 172.80	₹ 17,280.00
25	6mm cement plaster to ceiling of mix:				
a	1:3 (1 cement : 3 fine sand)	12.00	Sqm	₹ 134.70	₹ 1,616.40
26	Finishing walls with water proofing cement paint of required shade :				
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	55.00	Sqm	₹ 57.85	₹ 3,181.75
27	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	112.00	Sqm	₹ 68.60	₹ 7,683.20
28	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	2.00	Sqm	₹ 74.40	₹ 148.80
Total					₹ 3,99,643.00
CANTEEN					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	11.00	Cum	₹ 157.50	₹ 1,732.50
2	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 m and lift upto 1.5 m	8.00	Cum	₹ 112.40	₹ 899.20
3	Supplying chemical emulsion in sealed containers including delivery as specified.				
a	Chlorpyrifos/Lindane emulsifiable concentrate of 20%	37.00	Ltr	₹ 185.95	₹ 6,880.15

4	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
a	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
i	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration.	20.00	Sqm	₹ 48.70	₹ 974.00
5	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	5.00	Cum	₹ 4,004.00	₹ 20,020.00
6	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	4.50	Sqm	₹ 257.80	₹ 1,160.10
7	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	2.00	per 50 kg cement	₹ 48.15	₹ 96.30
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 :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	0.60	Cum	₹ 6,230.20	₹ 3,738.12
9	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with:				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	4.50	Cum	₹ 7,282.50	₹ 32,771.25
10	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	Suspended floors, roofs, landings, balconies and access platform.	41.00	Sqm	₹ 401.65	₹ 16,467.65
b	Lintels, beams, plinth beams, grinders, bressumers and cantilevers.	11.50	Sqm	₹ 332.15	₹ 3,819.73
11	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	400.00	Kg	₹ 68.10	₹ 27,240.00
12	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	6.50	Cum	₹ 4,677.25	₹ 30,402.13
13	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	7.50	Cum	₹ 5,426.15	₹ 40,696.13
14	Half brick masonry with bricks of class designation 75 in superstructure above plinth level upto floor V level				
a	Cement mortar 1:4 (1 cement: 4 coarse sand)	11.00	Sqm	₹ 665.80	₹ 7,323.80

15	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 teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2.00	Sqm	₹ 1,909.55	₹ 3,819.10
16	Providing and fixing aluminium 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	300x16 mm	1.00	Each	₹ 229.65	₹ 229.65
17	Providing and fixing aluminium tower 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 necessary screws etc. complete:				
a	250 x 10mm	1.00	Each	₹ 95.25	₹ 95.25
b	150 x 10mm	1.00	Each	₹ 65.35	₹ 65.35
18	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side/ top/ centre hung with beading and all members such as K11B and K12B etc. complete of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required as per approved design.	81.00	Kg	₹ 230.45	₹ 18,666.45
19	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	16.00	Kg	₹ 83.70	₹ 1,339.20
20	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 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.				
a	80x1.25mm M.S. laths with 1.25 mm thick top cover.	5.50	Sqm	₹ 1,208.45	₹ 6,646.48
21	Providing and fixing ball bearing for rolling shutters.	6.00	Each	₹ 356.50	₹ 2,139.00

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.				
a	40mm thick with 20mm nominal size stone aggregate.	0.00	Sqm	₹	₹ -
23	Providing and fixing glass strips in joints of terrazo / cement concrete floors.				
a	40 mm wide and 4 mm thick.	0.00	M	₹ 50.05	₹ -
24	Providing and fixing 1st quality ceramic glazed tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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.	8.50	Sqm	₹ 836.65	₹ 7,111.53
25	12 mm cement plaster of mix :				
a	1:6 (1 cement : 6 fine sand)	39.00	Sqm	₹ 149.45	₹ 5,828.55
26	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a	1:6 (1 cement : 6 fine sand)	48.00	Sqm	₹ 172.80	₹ 8,294.40
27	6mm cement plaster to ceiling of mix:				
a	1:3 (1 cement : 3 fine sand)	41.00	Sqm	₹ 134.70	₹ 5,522.70
28	Finishing walls with water proofing cement paint of required shade :				
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	41.00	Sqm	₹ 57.85	₹ 2,371.85
29	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	76.00	Sqm	₹ 68.60	₹ 5,213.60
30	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	21.00	Sqm	₹ 74.40	₹ 1,562.40
	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	13.00			₹ -
	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.	66.00	Sqm	₹ 1,141.40	₹ 75,332.40
	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	5.40	Sqm	₹ 1,191.25	₹ 6,432.75
	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	25.00	Mtr	₹ 75.80	₹ 1,895.00
				Total	₹ 3,46,786.70
	CYCLE STAND				
	Details of Measurement and Analysis of Rate for 1 no.				

S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	9.00	Cum	₹ 157.50	₹ 1,417.50
2	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 m and lift upto 1.5 m	25.00	Cum	₹ 112.40	₹ 2,810.00
3	Filling of carted earth per site condition for Black cotton soil filling of Hard yellow soil mixed with kankar say on Murum including filling watering rantrig etc. complete.	16.00	Cum	₹ 225.00	₹ 3,600.00
4	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	14.00	Cum	₹ 4,004.00	₹ 56,056.00
5	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 :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.00	Cum	₹ 6,230.20	₹ 18,690.60
6	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns etc. for mass concrete.	9.00	Sqm	₹ 196.45	₹ 1,768.05
b	Columns, Pillars, Piers, Abutments, Posts and Struts	12.00	Sqm	₹ 453.35	₹ 5,440.20
7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	185.00	Kg	₹ 68.10	₹ 12,598.50
8	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
a	Electric resistance or induction butt welded tubes.	2100.00	Kg	₹ 123.65	₹ 2,59,665.00
9	Providing non-asbestos high impact Polypropylene reinforced cement 6mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses: corrugated sheets and including cutting to size and shape wherever required.	133.00	Sqm	₹ 396.10	₹ 52,681.30

10	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.				
a	40mm thick with 20mm nominal size stone aggregate.	130.00	Sqm	₹	₹ -
11	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	130.00	Sqm	₹ 33.25	₹ 4,322.50
12	Providing and fixing glass strips in joints of terrazo / cement concrete floors.				
a	40 mm wide and 4 mm thick.	130.00	M	₹ 50.05	₹ 6,506.50
13	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	133.00	Sqm	₹ 74.40	₹ 9,895.20
Total For 1 No					₹ 4,35,451.00
OPEN AIR THEATRE STAGE					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	43.00	Cum	₹ 157.50	₹ 6,772.50
2	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 m and lift upto 1.5 m	150.00	Cum	₹ 112.40	₹ 16,860.00
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	19.00	Cum	₹ 4,004.00	₹ 76,076.00
4	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	56.00	Cum	₹ 4,677.25	₹ 2,61,926.00
5	12 mm cement plaster of mix :				
a	1:6 (1 cement : 6 fine sand)	174.00	Sqm	₹ 149.45	₹ 26,004.30
6	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	0.00	Sqm	₹ 602.20	₹ -
7	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
a	Electric resistance or induction butt welded tubes.	3505.00	Kg	₹ 123.65	₹ 4,33,393.25

8	Providing non-asbestos high impact Polypropylene reinforced cement 6mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses: corrugated sheets and including cutting to size and shape wherever required.	247.00	Sqm	₹ 396.10	₹ 97,836.70
9	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	247.00	Sqm	₹ 74.40	₹ 18,376.80
10	Finishing walls with water proofing cement paint of required shade :				
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	247.00	Sqm	₹ 57.85	₹ 14,288.95
				Total	₹ 9,51,535.00
BOUNDARY WALL					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	862.00	cum	₹ 157.50	₹ 1,35,765.00
2	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 m and lift upto 1.5 m	431.00	cum	₹ 112.40	₹ 48,444.40
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	115.00	cum	₹ 4,301.15	₹ 4,94,632.25
4	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	200.00	Cum	₹ 6,230.20	₹ 12,46,040.00
5	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	49.00	Cum	₹ 7,074.30	₹ 3,46,640.70
6	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns etc. for mass concrete.	181.00	Sqm	₹ 196.45	₹ 35,557.45

b	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	486.00	Sqm	₹ 332.15	₹ 1,61,424.90
c	Columns, Pillars, Piers, Abutments, Posts and Struts.	974.00	Sqm	₹ 453.35	₹ 4,41,562.90
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a	Thermo-Mechanically Treated bars.	23963.00	Kg	₹ 68.10	₹ 16,31,880.30
8	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	7346.00	Kg	₹ 68.10	₹ 5,00,262.60
9	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	461.00	Cum	₹ 4,677.25	₹ 21,56,212.25
10	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	271.00	Cum	₹ 5,426.15	₹ 14,70,486.65
11	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.				
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	3505.00	Kg	₹ 90.10	₹ 3,15,800.50
12	12 mm cement plaster of mix :				
a	1:6 (1 cement: 6 fine sand)	1575.00	Sqm	₹ 149.45	₹ 2,35,383.75
13	15 mm cement plaster on rough side of single or half brick wall of mix :				
a	1:6 (1 cement: 6 fine sand)	1183.00	Sqm	₹ 172.80	₹ 2,04,422.40
14	Finishing walls with textured exterior paint of required shade :				
a	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.	2758.00	Sqm	₹ 146.45	₹ 4,03,909.10
15	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
a	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 or manufacture	117.00	Sqm	₹ 90.00	₹ 10,530.00
16	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.				
a	With G.I. barbed wire	5355.00	Metre	₹ 12.95	₹ 69,347.25

17	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.	645.00	Kg	₹ 70.90	₹ 45,730.50
		Total			₹ 99,54,033.00
Sports Facility					
1	Preparation and consolidation of subgrade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and disposal of surplus earth lead upto 50 metres.				
		1067.00	sqm	₹ 81.30	₹ 86,747.10
2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	54.00	cum	₹ 4,004.00	₹ 2,16,216.00
3	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.				
a	40mm thick with 20mm nominal size stone aggregate	1067.00	sqm	₹ 112.40	₹ 1,19,930.80
4	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar including filling joints with Jamuna sand with common burnt clay non modular bricks.	1067.00	sqm	₹ 498.95	₹ 5,32,379.65
5	P/L 25mm wide white marble stone strips	375.00	Mtr	₹ 250.00	₹ 93,750.00
			Total		₹ 10,49,023.55
Step sitting					
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	All kind of soils	41.69	cum	₹ 157.50	₹ 6,565.86
2	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 m and lift upto 1.5 m	20.84	cum	₹ 112.40	₹ 2,342.87
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	2.36	cum	₹ 4,004.00	₹ 9,441.43
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)				
	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	39.20	cum	₹ 7,074.30	₹ 2,77,340.86

	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Foundations, footings, bases of columns, etc. for mass concrete.	10.80	sqm	₹ 196.45	₹ 2,121.66
	Suspended floors, roofs, landings, balconies and access platform.	192.00	sqm	₹ 401.65	₹ 77,116.80
	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	27.12	sqm	₹ 332.15	₹ 9,007.91
	Columns, Pillars, Piers, Abutments, Posts and Struts.	6.62	sqm	₹ 453.35	₹ 3,002.99
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level.				
	Thermo-Mechanically Treated bars.	486.00	Kg	₹ 68.10	₹ 33,096.60
	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.	4704.48	Kg	₹ 68.10	₹ 3,20,375.09
	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.	192.00	sqm	₹ 1,141.40	₹ 2,19,148.80
	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 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	52.80	sqm	₹ 1,191.25	₹ 62,898.00
		Total			₹ 10,22,458.86
Septic Tank					
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
a	Ordinary rock	265.13	Cum	₹ 157.50	₹ 41,757.25
2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a	All kinds of soil.				
i	from 1.5 m to 3.0 m	167.67	Cum	₹ 46.25	₹ 7,754.68
ii	from 3.0 m to 4.5 m	70.21	Cum	₹ 46.25	₹ 3,247.31
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	9.07	Cum	₹ 4,301.15	₹ 39,032.42
4	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :				
a	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	33.35	Cum	₹ 8,702.80	₹ 2,90,198.35
5	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 :				

a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	10.10	Cum	₹ 6,230.20	₹ 62,895.85
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a	Thermo-Mechanically Treated bars.	1584.96	Kg	₹ 68.10	₹ 1,07,936.11
7	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Suspended floors, roofs, landings, balconies and access platform.	53.21	Sqm	₹ 401.65	₹ 21,373.00
8	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
a	20 mm cement plaster	101.43	Sqm	₹ 303.60	₹ 30,795.06
9	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	20.72	Kg	₹ 48.15	₹ 997.80
10	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a	1:6 (1 cement : 6 fine sand)	76.57	Sqm	₹ 172.80	₹ 13,230.97
11	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.				
a	40 mm thick with 20 mm nominal size stone aggregate	26.25	Sqm	₹ 353.35	₹ 9,275.44
12	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :				
a	With 20x20 mm square bar	9.00	Nos.	₹ 275.50	₹ 2,479.50
13	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
a	L D - 2.5	2.00	Nos.	₹ 750.00	₹ 1,500.00
i	Rectangular shape 600x450 mm internal dimensions				
14	Providing and filling brick bats in soak pit complete.	88.31	Cum	₹ 650.00	₹ 57,401.50
	Soak pit	Total			₹ 6,89,875.23
Rain Water Harvesting					
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
a	All kind of soil	34.13	cum	₹ 157.50	₹ 5,374.69
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	3.41	cum	₹ 4,004.00	₹ 13,663.65

2	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :				
a	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	14.80	cum	₹ 8,702.80	₹ 1,28,841.82
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.30	cum	₹ 7,074.30	₹ 16,301.73
5	Reinforcement for R.C.C. work including, straightening, cutting bending binding and placing in position complete.				
	Thermo-Mechanically Treated bars	542.68	kg	₹ 68.10	₹ 36,956.29
6	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Suspended floors, roofs, landings, balconies and access platform.	15.36	sqm	₹ 401.65	
7	15 mm cement plaster on rough side of single or half brick wall of mix :				
	1:4 (1 cement: 4 coarse sand)	51.30	sqm	₹ 200.05	₹ 10,262.57
8	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1 L D- 2.5				
	M D - 10				
	Circular shape 500 mm internal diameter	3.00	nos	₹ 909.25	₹ 2,727.75
9	Supply and stacking of graded stone aggregate of 40-60mm size in rain Water harvesting Chamber	3.38	cum	₹ 1,350.00	₹ 4,556.25
10	Supply and stacking of stone chippings of 11.20mm size in Rain water harvesting chamber	4.50	cum	₹ 1,350.00	₹ 6,075.00
11	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineerin- charge.	2.25	cum	₹ 987.85	₹ 2,222.66
12	Supply and laying Nylon Mesh in Rain water harvesting Chamber as approved by Engineer In Charge	11.25	cum	₹ 900.00	₹ 10,125.00
	TOTAL				₹ 2,37,107.25
Boring For Borewell					
1	Drilling of 300mm dia bore hole manually.	50.00	Rmt	₹ 400.00	₹ 20,000.00
2	Supply of 150mm dia slotted rigid PVC pipe (4 Kg./sqcm pressure rating) and accessories.	20.00	Rmt	₹ 1,300.00	₹ 26,000.00
3	Supply and fixing of nylon jali around the slotted pipes complete as required.	30.00	job	₹ 3,000.00	₹ 90,000.00
4	Providing and packing of pea gravel around the pipe.	4.00	cum	₹ 2,000.00	₹ 8,000.00
5	Transport of boring tools other required equipments and installation at site.	1.00	job	₹ 5,000.00	₹ 5,000.00

6	Lowering of 150mm dia rigid PVC pipe in bore hole including cutting jointing etc. complete.	50.00	Rmt	₹ 150.00	₹ 7,500.00
			TOTAL		₹ 1,56,500.00
UNDER GROUND SUMP (50 KL) Two No.					
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
a	All kind of soils	206.25	Cum	₹ 157.50	₹ 32,484.38
2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a	All kind of soils	131.25	Cum	₹ 46.25	₹ 6,070.31
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	6.25	Cum	₹ 4,301.15	₹ 26,882.19
4	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns, etc. for mass concrete.	7.92	Sqm	₹ 196.45	₹ 1,555.88
b	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	153.76	Sqm	₹ 360.80	₹ 55,476.61
c	Suspended floors, roofs, landings, balconies and access platform.	22.89	Sqm	₹ 401.65	₹ 9,193.77
5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).				
a	All works upto plinth level.	28.24	Cum	₹ 6,296.15	₹ 1,77,825.31
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a	Thermo-Mechanically Treated bars.	4434.23	Kg	₹ 68.10	₹ 3,01,971.03
7	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.	93.67	Sqm	₹ 836.65	₹ 78,369.01

8	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
	External work				
a	80 mm dia nominal bore	9.50	M	₹ 637.05	₹ 6,051.98
9	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a	80 mm dia nominal bore	2.00	Each	₹ 1,920.60	₹ 3,841.20
10	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
a	80 mm dia nominal bore				
i	Horizontal	2.00	Each	₹ 2,504.30	₹ 5,008.60
11	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
a	80 mm nominal bore	4.00	Each	₹ 995.45	₹ 3,981.80
12	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :				
a	100 mm dia Ductile Iron Double Flanged	3.25	M	₹ 2,564.75	₹ 8,335.44
13	Providing orange colour safety foot rest 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 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread 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.	10.00	Each	₹ 311.60	₹ 3,116.00
14	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1 L D- 2.5				
a	H D - 20				
i	Circular shape 560 mm internal diameter	3.00	Each	₹ 1,511.55	₹ 4,534.65
	for One No.		TOTAL		₹ 7,24,698.00
	For Two Nos.				₹ 14,49,396.00
SUBMERSIBLE PUMP, Control Panel, Cables for tubewell					
1	Supply and fixing / lowering of KSB make submersible pump set with 7.5 HP motar 7/10 stage pump suitable for delivery of water 5/8/12/16/20m3hrs at 50/45/37/28/16 metres head respectively	1.00	each	₹ 1,00,000.00	₹ 1,00,000.00
2	Supply and fixing 40 mm dia pump fittings such as clamps, elbows, sockets, unions, etc. [Market Rate]	1.00	set	₹ 3,000.00	₹ 3,000.00
3	Providing and fixing Submersible cable 4 sq. mm of Finolex / Aerolex make. [Market Rate]	120.00	metre	₹ 130.00	₹ 15,600.00

4	Supply and installation of Panel board for submersible pump fitted with DOL starter ammeter, voltmeter, single phase preventer, MCB on/off switch pump button duly wired. [Market Rate]	1.00	each	₹ 9,000.00	₹ 9,000.00
				TOTAL	₹ 1,27,600.00
BOOSTER PUMP					
1	Domestic Water pump 2 nos Pump model CGVM 16/4/3, 4 kw, three phase with stage chamber SS 304, Housing cover SS 304, Impeller SS 304, shaft SS 304, seals EP 851, M/Seal Wolform Carbide/Graphit , 2950 RPM , suction 50mm Discharge 50 max power consumption 6.3 amp, IP 55 & the Flow rate of 16000 LPH at 34 mtr Head. Including Controll panel with all necessary protection,ammeter, voltmeter, phase indicating lamp, pump on indicating Lamp, dry run protection,over load protection,MCB, single phase protection etc and including sets of accessories valves , NRV's, pressure gauge.commom suction discharge header of GI for two pumps with complete system mounted on common base frame and 1 lot cabling using suitable rated cable from controll panel to motor etc. complete as per make approved and direction of Engineer In charge. [Market Rate]	1.00	No.	₹ 80,000.00	₹ 80,000.00
				TOTAL	₹ 80,000.00
CHLORINATOR					
11	Providing and fixing Chlorinator set with all fittings i/c cables, fittings and panels and installation complete. [Market Rate]	1.00	No.	₹ 50,000.00	₹ 50,000.00
				TOTAL	₹ 50,000.00
Pump Room					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	All kinds of soil.	11.00	Cum	₹ 157.50	₹ 1,732.50
2	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 m and lift upto 1.5 m	8.00	Cum	₹ 112.40	₹ 899.20
3	Supplying chemical emulsion in sealed containers including delivery as specified.				
a	Chlorpyrifos/Lindane emulsifiable concentrate of 20%	28.00	Ltr	₹ 185.95	₹ 5,206.60
4	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				

a	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
i	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration.	24.00	Sqm	₹ 48.70	₹ 1,168.80
5	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
a	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	3.50	Cum	₹ 4,004.00	₹ 14,014.00
6	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	3.50	Sqm	₹ 257.80	₹ 902.30
7	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	1.00	per 50 kg cement	₹ 48.15	₹ 48.15
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 :				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.10	Cum	₹ 6,230.20	₹ 19,313.62
9	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with:				
a	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	6.10	Cum	₹ 7,282.50	₹ 44,423.25
10	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	Suspended floors, roofs, landings, balconies and access platform.	27.00	Sqm	₹ 401.65	₹ 10,844.55
b	Lintels, beams, plinth beams, grinders, bressumers and cantilevers.	28.00	Sqm	₹ 332.15	₹ 9,300.20
11	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.				
a	Thermo-Mechanically Treated bars.	660.00	Kg	₹ 68.10	₹ 44,946.00
12	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	4.40	Cum	₹ 4,677.25	₹ 20,579.90
13	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	9.00	Cum	₹ 5,426.15	₹ 48,835.35
14	Half brick masonry with bricks of class designation 75 in superstructure above plinth level upto floor V level				
a	Cement mortar 1:4 (1 cement: 4 coarse sand)	0.00	Sqm	₹ 665.80	₹ -

15	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 teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
a	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2.60	Sqm	₹ 1,909.55	₹ 4,964.83
16	Providing and fixing aluminium 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	300x16 mm	1.00	Each	₹ 229.65	₹ 229.65
17	Providing and fixing aluminium tower 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 necessary screws etc. complete:				
a	250 x 10mm	1.00	Each	₹ 95.25	₹ 95.25
b	150 x 10mm	1.00	Each	₹ 65.35	₹ 65.35
18	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side/ top/ centre hung with beading and all members such as K11B and K12B etc. complete of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required as per approved design.	107.00	Kg	₹ 230.45	₹ 24,658.15
19	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	16.00	Kg	₹ 83.70	₹ 1,339.20
20	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 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.				
a	80x1.25mm M.S. laths with 1.25 mm thick top cover.	0.00	Sqm	₹ 1,208.45	₹ -
21	Providing and fixing ball bearing for rolling shutters.	0.00	Each	₹ 356.50	₹ -

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.				
a	40mm thick with 20mm nominal size stone aggregate.	13.00	Sqm	₹ 353.35	₹ 4,593.55
23	Providing and fixing glass strips in joints of terrazo / cement concrete floors.				
a	40 mm wide and 4 mm thick.	15.00	M	₹ 50.05	₹ 750.75
24	Providing and fixing 1st quality ceramic glazed tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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.	0.00	Sqm	₹ 836.65	₹ -
25	12 mm cement plaster of mix :				
a	1:6 (1 cement : 6 fine sand)	66.00	Sqm	₹ 149.45	₹ 9,863.70
26	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a	1:6 (1 cement : 6 fine sand)	40.00	Sqm	₹ 172.80	₹ 6,912.00
27	6mm cement plaster to ceiling of mix:				
a	1:3 (1 cement : 3 fine sand)	28.00	Sqm	₹ 134.70	₹ 3,771.60
28	Finishing walls with water proofing cement paint of required shade :				
a	New work (Two or more coats applied @ 3.84 kg/10 sqm).	66.00	Sqm	₹ 57.85	₹ 3,818.10
29	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	68.00	Sqm	₹ 68.60	₹ 4,664.80
30	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	Two or more coats on new work	21.00	Sqm	₹ 74.40	₹ 1,562.40
		TOTAL		₹ 2,89,503.75	
Cutting					
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	25000.00	100 Sqm	₹ 642.00	₹ 1,60,500.00
				TOTAL ₹ 1,60,500.00	
CUTTING & FILLING					
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed :				
a	All kinds of soil	25000.00	100 Square Metre	₹ 5,044.15	₹ 12,61,037.50

		TOTAL ₹ 12,61,038.00
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SUMMARY OF COST

Description		Amount	
I	TRANSFORMER & L.T.PANEL	Rs.	9,14,000.00
II	L.T. CABLES	Rs.	13,64,275.00
III	MISCELLANEOUS ITEMS	Rs.	15,450.00
IV	EXTERNAL LIGHTING	Rs.	26,59,590.00
	TOTAL	Rs.	49,53,315.00
	Grand Total	<u>Rs.</u>	49,53,315.00

**SCHEDULE OF QUANTITIES OF EXTERNAL ELECTRICAL WORKS FOR
K.V. Narayanpur**

S.NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
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IEAD I L.T.PANEL

- 1 Supplying, erection and commissioning of LT panel cubical type sheet steel clad floor mounted totally enclosed extensible switch board suitable for use on 415 V 3 phase 4 wire 50 c/s complete housed with incoming and outgoing bus bare including interconnection etc. with indicating lamps etc accessories complete as required and with following incoming and outgoing switchgear as per specification and schematic digram (Main L.T. PANEL)

INCOMING

- a) 400 A 4P MCCB (35 KA) - 1 No.
- b) Neptune ducati make mach - 30 with RB4 for metering and CTs as required purpose -1 Set

- c) Indication lamps R,Y,B, -1Set.

BUS BAR

Main bus bar rated for 400A suitable for 415 volt three phase and neutral 50 Hz aluminium bus bar having a current density of 1.0 Amp per sq.mm and neutral bus bar of 50% capacity interconnection between bus bars and breakers shall be through solid Al. strip.

OUTGOING

a)	200A 4P MCCB (16 KA)	-2 Nos.				
b)	100A 4P MCCB (35 KA)	- 3 Nos.				
C)	63A 4P MCCB (35 KA)	- 1 Nos.	Set	1	680000	6,80,000.00
2	Earthing with tinned copper earth plate 600mm x 600mm x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe complete with charcoal and salt etc as required as per technical specification.		Set	2	15000	30,000.00
3	Providing and laying tinned copper strip 38 mm x 6mm in recess for connection etc. as required.		Meter	100	1500	1,50,000.00
4	Providing and fixing tinned copper 38mm x 6mm in 50mm dia GI pipe from earth electrode as required, including cost of 50 GI pipe B-class.		Meter	25	2160	54,000.00

SUB HEAD I TOTAL :- 9,14,000.00

II - L.T. CABLE XLPE

1	Supplying and of following sizes of PVC insulated PVC sheathed armoured aluminum conductor power cable of 1.1 KV grade as required.					
a)	3-5x300 sq.mm.		Meter	60	2125	1,27,500.00
b)	3-5x240sq.mm.		Meter	275	1690	4,64,750.00
c)	3-5x70 sq.mm.		Meter	90	1200	1,08,000.00
d)	3-5x50 sq.mm		Meter	600	815	4,89,000.00

2	Laying and of following sizes of PVC insulated PVC sheathed armoured aluminium conductor power cable of 1.1 KV grade on the wall surface / cable / tray / trench / pipes including the cable etc as required				
a)	3-5x300 sq.mm.	Meter	65	213	13,845.00
b)	3-5x240 sq.mm.	Meter	260	213	55,380.00
c)	3-5x70 sq.mm.	Meter	90	140	12,600.00
d)	3-5x50 sq.mm	Meter	575	140	80,500.00

3	Supplying and making end termination with brass compression gland including providing and crimping with aluminum solder less lugs/ ferrules for PVC insulated PVC sheathed armoured power aluminium conductor cable of 1.1 KV grade as required.				
a)	3-5x300 sq.mm.	Set	2	1200	2,400.00
b)	3-5x240sq.mm.	Set	4	1100	4,400.00
c)	3-5x70 sq.mm.	Set	4	1000	4,000.00
d)	3-5x50 sq.mm	Set	2	950	1,900.00

SUB HEAD II TOTAL:- 13,64,275.00

MISCELLANEOUS ITEMS

1	Supplying of non-skid rubber mat 20mm thick and 900mm width as required including cutting to required lengths of approved make with test certificates for 440V L.T. switchgears.	Meter	2	6200	12,400.00
2	Supplying and fixing of shock restoration chart written in English and Hindi duly framed in glass as required.	Each	1	800	800.00
3	Providing and fixing MV danger plate of 200mm x 150mm made of mild steel at least 2mm thick and vitreous enameled white on both sides and with inscription in single red colour on front side as required.	Each	2	450	900.00
4	Supplying of first aid box as approved complete with standard kit as prescribed by Indian Red Cross.	Each	1	1350	1,350.00

SUB HEAD III TOTAL:-

15,450.00

SUB HEAD IV:EXTERNAL LIGHTING

1	Supplying and fixing in position GI pipe 4.0M long 50mm in dia class -B with cement concrete foundation of 1:2:4: with foundation plate 300x300x6mm MS plate and provision of collar the pipe to be painted with one coat of red oxide and two coat of aluminium paint of approved shade and OKT marking including excavation in all type of soil etc. as per specification as required.	Each	10	8500	85,000.00
a	for 9 m long as per approved design	Each	42	19500	8,19,000.00
2	Supplying and fixing in position 0.5M long 50mm class -B GI pipe for mounting Gate light luminaries.	Each	6	1250	7,500.00
3	Supplying and fixing commissioning & testing fitting with 70WMH complete including supply, wiring and connection with 3x2.5sq.mm. PVC insulated standed copper conductor cable including brackets complete as required per Philips HDS 3601x MHN-TD-70	Each	55	7500	4,12,500.00
4	Supplying and fixing of 175 x 150 x 100mm MS junction box of 16SWG with hinged cover having locking arrangements complete with 15 A 2way elemex connector for looping the cables and street light fixture and one no.6 DP MCB including painting etc. as required.	Each	60	1550	93,000.00
5	Supplying & fixing 40mm dia GI pipe class-B on the pole for cable entry to junction box and sealing the ends as required.	Meter	1250	260	3,25,000.00
6	Supplying and laying of 4 core 10sq.mm PVC insulated PVC sheathed armoured underground cable on ground including excavation, sand cushioning, b rick protection covering and refilling the trench etc. as required.	Meter	800	275	2,20,000.00

7	Supplying and laying 4 core 10 sq.mm PVC insulated sheathed armoured underground cable in the exiting Hume pipe/ GI pipe/duct as required.	Meter	1350	375	5,06,250.00
8	Supplying & making end termination with brass compression gland including providing and crumpling copper solder less lugs / ferrules for 4 core x 10sq.mm PVC insulated PVC sheathed copper conductor cable 1.1 KV grade.	Each	48	300	14,400.00
9	Supplying & laying of 8SWG GI wire in ground along with PVC armoured cable as required.	Meter	1250	120	1,50,000.00
10	Supplying & laying of 8SWG GI wire in 15mm GI pipe class - B from earth electro code to hole including excavation as required.	Set	12	120	1,440.00
11	Earthing with GI. Pipe earth pipe 4.5m long x 40 mm including accessories and providing masorny enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or core and salt) complete as required.	Set	1	7500	7,500.00
12	Extra for using charcoal & salt for GI pipe earth electrocode as required.	Set	1	2000	2,000.00
13	Supplying, erection and commissioning of TPN DB complete with sheet steel enclosure with neutral and earth bar interconnection with following mounting as required. a)40 A4P MCB -1No b)Time switch with contactor -1 No c)10 A SP MCB -9 Nos	Set	1	16000	16,000.00
SUB HEAD IV TOTAL:-					26,59,590.00

**SUMMARY FOR INTERNAL ELECTRICAL WORKS FOR SCHOOL BLOCK KV AT
NARAYANPUR, CHATTISGARH**

S.NO	DESCRIPTION	AMOUNT
1	SUB-HEAD I: INTERNAL WIRING	19,82,756.00
2	SUB-HEAD II:- DISTRIBUTION BOARDS	2,57,944.00
3	SUB-HEAD III :- WIRING FOR TELEPHONE & TV	16,820.00
4	SUB-HEAD IV:- EARTHING	1,06,280.00
5	SUB-HEAD V:- LIGHT FIXTURES & FANS	24,50,245.00
6	SUB-HEAD VI:- LIGHTNING CONDUCTOR	95,120.00
	TOTAL	49,09,165.00

SCHEDULE OF QUANTITIES FOR INTERNAL INSTALLATION ELECTRICAL WORK FOR KV AT NARAYANPUR, CHATTISGARH					
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUB-HEAD I: INTERNAL WIRING					
All wiring Item FRLS including provision of conduit, conduit accsories , circuit wiring, switch, box and all fitting completed as required.					
1	Wiring for light point / fan point /exhaust fan point/ call bell point with 1.5 sq.mm FRLS 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 PVC insulated copper conductor single core cable etc. as required.				
	a) Group C	950	Point	₹ 718.00	₹ 6,82,100.00
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper condutor single core cable in surface / recessed PVC conduit 2 way modular switch,modular plate,suitable GI box and earthing the point with 1.5 sq.mm .FRLS PVC insulated copper conductor single core cable etc as required.	8	Point	₹ 770.00	₹ 6,160.00
3	Wiring for light /power plug with 2x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed PVC conduit along with 1 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	1800	Meter	₹ 162.00	₹ 2,91,600.00
4	Wiring for light /power plug with 4x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed PVC conduit along with 2 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	100	Meter	₹ 275.00	₹ 27,500.00
5	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor single core cable in surface/recessed PVC Conduit as required.				
(i)	2x1.5 sq.mm + 1x1.5 sq.mm earth wire	350	Meter	₹ 106.00	₹ 37,100.00
(ii)	2x2.5 sq.mm + 1 x 2.5 sq.mm earth wire	3600	Meter	₹ 131.00	₹ 4,71,600.00
(iii)	2 x 4 sq.mm + 1 x 4 sq.mm earth wire	100	Meter	₹ 162.00	₹ 16,200.00
(iv)	2x6 sq.mm + 1x6 sq.mm earth wire	100	Meter	₹ 221.00	₹ 22,100.00
(v)	4x10 sq.mm + 2x10 sq.mm earth wire.	150	Meter	₹ 597.00	₹ 89,550.00
(vi)	4x16 sq.mm + 2x16 sq.mm earth wire	150	Meter	₹ 883.00	₹ 1,32,450.00
5	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 amps modular socket outlet and 5/6 amps modular switch ,connection etc as required.	90	Each	₹ 276.00	₹ 24,840.00

6	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 15/16 and 5/6 amps modular socket outlet with shulter and 15/16 amps modular switch connection, etc as required.	50	Each	₹ 303.00	₹ 15,150.00
7	Supplying and fixing call bell/ buzzer suitable for single phase ,230 volts ,complete as required.	4	Each	₹ 61.00	₹ 244.00
8	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.				
(i)	25 mm	550	Meter	₹ 65.00	₹ 35,750.00
(ii)	32 mm	300	Meter	₹ 85.00	₹ 25,500.00
9	Supplying and fixing 20 amps, 240 volts SPN industrial type, socket outlet with 2 pole and earth metal enclosed plug top along with 20 amps 'C' Curve, SP, MCB in sheet steel encloser on surface or in recess with chained metal cover for the socket outlet and complete with conncections, testing & commissioning etc as required.	15	Each	₹ 868.00	₹ 13,020.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	
10	Supplying and fixing 30 amps, 415 volts TPN industrial type, socket outlet with 4 pole and earth metal enclosed plug top along with 30 amps 'C' Curve, TP, MCB in sheet steel encloser on surface or in recess with chained metal cover for the socket outlet and complete with conncections, testing & commissioning etc as required.	4	Each	₹ 2,473.00	₹ 9,892.00
					₹ -
11	Supplying & fixing 75mm x 75mm x 10 mm zinc passivated box with mould cord outlet complete with RJ 45 sockets as required for computer data point.	50	Each	₹ 450.00	₹ 22,500.00
12	Supplying & laying CAT 6 for LAN wiring in PVC conduit / Cable Tray complete as required.	850	Each	₹ 70.00	₹ 59,500.00
	SUB-HEAD I TOTAL :				₹ 19,82,756.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD II:- DISTRIBUTION BOARDS, PANEL				
1	Supplying and fixing following way prewired TP & N, MCB distribution board of sheet steel for 415 volts on surface /recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper condutor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).				
	4 way (4+12) Double door	2	Each	₹ 7,357.00	₹ 14,714.00

	6 way (4+18) Double door	6	Each	₹ 9,496.00	₹ 56,976.00
	8 way (4+24) Double door	2	Each	₹ 10,405.00	₹ 20,810.00
2	Supplying and fixing following way, single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on surface /recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper conductor upto terminal blocks, tinned copper bus bar, neutral link, earth bus, din bar, detachable gland plate, interconnections, powder painted including earthing etc as required. (But without MCB/RCCB/Isolator)				
	2 + 8/10 way, Double door	2	Each	₹ 2,995.00	₹ 5,990.00
3	Supply 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				
	a) Single pole	200	Each	₹ 169.00	₹ 33,800.00
4	Supply and fixing following rating,double pole (single phase and neutral),240 volts,RCCB having a sensitivity current upto 300 amp in the existing MCB DB complete with connection ,testing and commissioning etc. as required.				
	a) 40 amps	2	Each	₹ 1,714.00	₹ 3,428.00
5	Supply and fixing following rating,four pole (three phase and neutral),415 volts,RCCB having a sensitivity current upto 300 amp in the existing MCB DB complete with connection ,testing and commissioning etc. as required.				
	a) 63 amps	10	Each	₹ 2,294.00	₹ 22,940.00
6	Supplying, erection and commissioning of cubical type sheet steel clad IP52, wall / floor mounted totally enclosed LT switch board suitable or use on 415 V 3 phase 4 wire 50 cycles complete housed with incoming and outgoing bus bars including interconnection accessories with cable glands etc complete as required and with following incoming and outgoing switchgear as per specification and drawings.				
A	INCOMING				
	125 A 4P MCCB 25KA -1 No.				
	Voltmeter 0-500V with selector switch - 1No.				
	Ameter 0-150A with selector switch \$ CTS- 1 No				
	Indicating lamp RYB - 1 Set				
	Bus Bar				
	150A TPN Aluminium bus bar having a current density of not less than 1.0 Amp sq.mm. and the neutral bus of 50% capacity interconnections between bus bars and breakers shall be through solid copper strip.				
	OUTGOING				
	63A 4P MCB 10KA - 8 Nos.				
	40A DP MCB 10KA - 2 Nos.	2	Each	₹ 57,000.00	₹ 1,14,000.00

	SUB-HEAD II TOTAL :				₹ 2,57,944.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD III :- WIRING FOR TELEPHONE POINTS				
1	Supplying and fixing of following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
	a) 75 mm x 75 mm x 60 mm deep	20	Each	₹ 166.00	₹ 3,320.00
2	Supplying and drawing following pair, 0.5mm dia FR PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
	a) 2 Pair	450	Meter	₹ 18.00	₹ 8,100.00
3	Supplying and fixing following modular switch/ socket on the existing modular plate and switch box including connections but excluding plate etc .as required.				
	a) Telephone socket outlet	20	Each	₹ 95.00	₹ 1,900.00
4	Supplying and fixing of the following sheet steel clad wall / recess mounting telephone tag blocks of krone make constructed from 14 SWG sheet steel finished with red oxide coating of two coats of paint with hinged gasketted powder coated door and complete.				
	a) 05 pairs	2	Each	₹ 1,000.00	₹ 2,000.00
	b) 10 pairs	1	Each	₹ 1,500.00	₹ 1,500.00
	SUB-HEAD III TOTAL :				₹ 16,820.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD IV:- EARTHING				
1	Earthing with G.I earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 mtr long etc. with charoal or coke and salt as required.	2	Set	₹ 4,490.00	₹ 8,980.00
					₹ -
2	Providing & fixing 25mm x 5mm GI Strip in 40mm dia GI pipe from earth electrode including connections with GI nut, bolt, spring, washer excavation and re-filing etc. as required.	150	Meter	₹ 421.00	₹ 63,150.00
3	Providing & fixing 25mm x 5mm GI Strip on surgace / recess for loop earthing as required.	200	Meter	₹ 142.00	₹ 28,400.00
4	Providing & fixing of 6 SWG dia G.I wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	250	Meter	₹ 23.00	₹ 5,750.00

	SUB-HEAD IV TOTAL:				₹ 1,06,280.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD V:- LIGHTING FIXTURE AND FANS				
1	Supplying of following type recessed / surface mounted fluorescent light fixture complete with electronic choke earthing point and with T5/T8/CFL/LED lamps complete as required. (HAVELLS or Equivalent)				
	a) 1x36W Mirror Optics	75	Each	₹ 2,850.00	₹ 2,13,750.00
	b) 2x36W Mirror Optics	265	Each	₹ 3,700.00	₹ 9,80,500.00
	c) 2 x 36 W FP-L Mirror Optics (2'x2')	5	Each	₹ 3,600.00	₹ 18,000.00
	d) 15W LED	200	Each	₹ 2,500.00	₹ 5,00,000.00
	e) 1x8W CFL Bulk Head	10	Each	₹ 700.00	₹ 7,000.00
	f) 36W LED Panel (2'x2')	5	Each	₹ 7,500.00	₹ 37,500.00
	g) 22W LED Tube (4')	50	Each	₹ 2,500.00	₹ 1,25,000.00
2	Supplying of 305 mm 1400 RPM exhaust fan complete with louver and bird guard screen with 3 core flexible wire as required.	20	Each	₹ 2,950.00	₹ 59,000.00
3	Supplying of ceiling fan, complete with blades with suitable length of down rods shackle insulator earthing point including connection etc . as required.				
	a) 1200 mm sweep	245	Each	₹ 1,450.00	₹ 3,55,250.00
4	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	610	Each	₹ 91.00	₹ 55,510.00
5	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	245	Each	₹ 95.00	₹ 23,275.00
6	Installtion of exhasut fan up to 450 mm sweep in the existing opening, including making the hole to suit the size of the abvoe fan, making good the damage, connection testiing and commissioning etc as requiried	20	Each	₹ 204.00	₹ 4,080.00
7	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	20	Each	₹ 90.00	₹ 1,800.00
9	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required.	245	Each	₹ 284.00	₹ 69,580.00
	SUB-HEAD V TOTAL:				₹ 24,50,245.00

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD VI:- LIGHTING CONDUCTOR				
1	Providing and fixing of lighting conductor finial, made of 25mm dia 300 mm long, copper tube, having single prong at top , with 85mm dia 3 mm thick copper base plate including holes etc. complete as required.	1	Each	₹ 764.00	₹ 764.00
2	Jointing copper / G.I tape (with another copper / G.I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	1	Each	₹ 72.00	₹ 72.00
3	Providing and fixing G.I tape 20 mm X 3 mm on parapet or surface of wall for lighting conductor compete as required.(for horizontal run).	650	Meter	₹ 68.00	₹ 44,200.00
4	Providing and fixing G.I tape 20 mm X 3 mm on parapet or surface of wall for lighting conductor compete as required.(for vertical run).	300	Meter	₹ 72.00	₹ 21,600.00
5	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long. With 4 nos of tinned brass bolts, nuts, check nuts and spring washers etc. complete as required.	4	Each	₹ 71.00	₹ 284.00
6	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	200	Meter	₹ 141.00	₹ 28,200.00
	SUB HEAD VI TOTAL:				₹ 95,120.00

**SUMMARY FOR INTERNAL ELECTRICAL WORKS FOR 04nos.TYPE-2 RESIDENCE AT KV
NARAYANPUR, CHATTISGARH**

S.NO	DESCRIPTION	AMT
1	SUB-HEAD I: INTERNAL WIRING	₹ 3,20,081.00
2	SUB-HEAD II:- DISTRIBUTION BOARDS	₹ 54,148.00
3	SUB-HEAD III :- WIRING FOR TELEPHONE & TV	₹ 10,684.00
4	SUB-HEAD IV:- EARTHING	₹ 67,580.00
5	SUB-HEAD V:- LIGHT FIXTURES & FANS	₹ 1,48,891.00
	TOTAL	₹ 6,01,384.00

**SCHEDULE OF QUANTITIES FOR INTERNAL INSTALLATION ELECTRICAL WORK FOR 04nos. TYPE-2 RESIDENCES AT KV
NARAYANPUR, CHATTISGARH**

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD I: INTERNAL WIRING				
	All wiring Item FRLS including provision of conduit, conduit accsories , circuit wiring, switch, box and all fitting completed as required.				
1	Wiring for light point / fan point /exhaust fan point/ call bell point with 1.5 sq.mm FRLS 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 PVC insulated copper conductor single core cable etc. as required.				
	a) Group A	95	Point	518.00	₹ 49,210.00
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper condutor single core cable in surface / recessed PVC conduit 2 way modular switch,modular plate,suitable GI box and earthing the point with 1.5 sq.mm .FRLS PVC insulated copper conductor single core cable etc as required.	2	Point	770.00	₹ 1,540.00
3	Wiring for light /power plug with 2x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed PVC conduit along with 1 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	550	Meter	162.00	₹ 89,100.00
4	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor single core cable in surface/recessed PVC Conduit as required.				
(i)	2x1.5 sq.mm + 1x1.5 sq.mm earth wire	100	Meter	106.00	₹ 10,600.00
(ii)	2x2.5 sq.mm + 1 x 2.5 sq.mm earth wire	650	Meter	131.00	₹ 85,150.00
(iii)	2 x 4 sq.mm + 1 x 4 sq.mm earth wire	50	Meter	162.00	₹ 8,100.00
(iv)	2x6 sq.mm + 1x6 sq.mm earth wire	50	Meter	221.00	₹ 11,050.00
(v)	2x10 sq.mm + 1x10 sq.mm earth wire.	100	Meter	327.00	₹ 32,700.00
5	Supplying and fixing modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
	5/6 amps switch	25	Each	81.00	₹ 2,025.00
	3 pin 5/6 amps socket outlet	25	Each	79.00	₹ 1,975.00
	15/16 amps switch	15	Each	111.00	₹ 1,665.00
	6 pin 15/16 amps socket outlet	15	Each	150.00	₹ 2,250.00
6	Supplying and fixing of following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
	3 Module (100mmx75mm)	40	Each	175.00	₹ 7,000.00
7	Supplying and fixing call bell/ buzzer suitable for single phase ,230 volts ,complete as required.	4	Each	61.00	₹ 244.00

8	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.				
(i)	25 mm	150	Meter	65.00	₹ 9,750.00
(ii)	32 mm	50	Meter	85.00	₹ 4,250.00
9	Supplying and fixing 20 amps, 240 volts SPN industrial type, socket outlet with 2 pole and earth metal enclosed plug top along with 20 amps 'C' Curve, SP, MCB in sheet steel encloser on surface or in recess with chained metal cover for the socket outlet and complete with connections, testing & commissioning etc as required.	4	Each	868.00	₹ 3,472.00
SUB-HEAD I TOTAL :					₹ 3,20,081.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUB-HEAD II:- DISTRIBUTION BOARDS					
1	Supplying and fixing following way, single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on surface /recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper conductor upto terminal blocks, tinned copper bus bar, neutral link, earth bus, din bar, detachable gland plate, interconnections, powder painted including earthing etc as required. (But without MCB/RCCB/Isolator)				
	2+8/10 Way, Double door	4	Each	2,508.00	₹ 10,032.00
2	Supply 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				
	a) Single pole	40	Each	169.00	₹ 6,760.00
5	Supply and fixing following rating,double pole (single phase and neutral),240 volts,RCCB having a sensitivity current upto 300 amp in the existing MCB DB complete with connection ,testing and commissioning etc. as required.				
	a) 40 amps	4	Each	1,714.00	₹ 6,856.00
6	Supplying, erection & commissioning of single front dead back cubical panel complete with cable alleys meter compartment having 75x75x3mm thick acrylic sheet viewing windows and meter, compartment having sealing arrangement & fixing including TPN+E aluminium bus bars and all interconnection with PVC insulated copper conductor cable neon indicating lamps including providing danger plate, painting and with following switchgears etc. and with following switchgears etc. and connections crimped with DOWELS make lugs / ferrules etc. & space for DG sensing interface unit as per specification drgs as required.(Meter Boards)				
M.B with 5 meters					

	80A 4P MCCB 16KA - 1no. As Incomer with 150A Bus Bar				
	Space for Single phase (20A - 40A 240 Volt) - 5 Nos.				
	40A DP MCB's 10KA in sheet steel enclosures -5 Nos.	1	Each	30,500.00	₹ 30,500.00
	SUB-HEAD II TOTAL :				₹ 54,148.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD III :- WIRING FOR TELEPHONE & TV POINTS				
1	Supplying and fixing of following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
	a) 75 mm x 75 mm x 60 mm deep	8	Each	166.00	₹ 1,328.00
2	Supplying and drawing following pair, 0.5.mm dia FR PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
	a) 2 Pair	100	Meter	18.00	₹ 1,800.00
3	Supplying and fixing following modular switch/ socket on the existing modular plate and switch box including connections but excluding plate etc .as required.				
	a) Telephone socket outlet	4	Each	95.00	₹ 380.00
	a) TV outlet	4	Each	94.00	₹ 376.00
4	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.	100	Meter	28.00	₹ 2,800.00
5	Supplying and fixing of the following sheet steel clad wall / recess mounting telephone tag blocks of krone make constructed from 14 SWG sheet steel finished with red oxide coating of two coats of paint with hinged gasketted powder coated door and complete.				
	a) 05 pairs	4	Each	1,000.00	₹ 4,000.00
	SUB-HEAD III TOTAL :				₹ 10,684.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD IV:- EARTHING				
1	Earthing with G.I earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 mtr long etc. with charoal or coke and salt as required.	2	Set	4,490.00	₹ 8,980.00
					₹ -

2	Providing & fixing 25mm x 5mm GI Strip in 40mm dia GI pipe from earth electrode including connections with GI nut, bolt, spring, washer excavation and re-filling etc. as required.	100	Meter	421.00	₹ 42,100.00
3	Providing & fixing 25mm x 5mm GI Strip on surge / recess for loop earthing as required.	100	Meter	142.00	₹ 14,200.00
4	Providing & fixing of 6 SWG dia G.I wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	100	Meter	23.00	₹ 2,300.00
SUB-HEAD IV TOTAL :					₹ 67,580.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUB-HEAD V:- LIGHTING FIXTURE AND FANS					
1	Supplying of following type recessed / surface mounted fluorescent light fixture complete with electronic choke earthing point and with TL-5 / CFL lamps complete as required. (HAVELLS / BAJAJ / WIPRO)				
	a) 1x18W CFL Dowligher	35	Each	1,600.00	₹ 56,000.00
	b) 1x28W T5 Tube	15	Each	900.00	₹ 13,500.00
	c) Bracket Light	15	Each	1,000.00	₹ 15,000.00
2	Supplying of 305 mm 1400 RPM exhaust fan complete with louver and bird guard screen with 3 core flexible wire as required.	12	Each	2,800.00	₹ 33,600.00
3	Supplying of ceiling fan/bracket fans, complete with blades with suitable length of down rods shackle insulator earthing point including connection etc . as required.				
	a) 1200 mm sweep	12	Each	1,400.00	₹ 16,800.00
4	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	65	Each	91.00	₹ 5,915.00
5	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	12	Each	95.00	₹ 1,140.00
6	Installtion of exhasut fan up to 450 mm sweep in the existing opening, including making the hole to suit the size of the abov e fan, making good the damage, connection testiing and commissioning etc as required	12	Each	204.00	₹ 2,448.00
7	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	12	Each	90.00	₹ 1,080.00

9	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required.	12	Each	284.00	₹ 3,408.00
	SUB-HEAD V DSR TOTAL :				₹ 1,48,891.00

**SUMMARY FOR INTERNAL ELECTRICAL WORKS FOR 04nos.TYPE-3 RESIDENCE AT KV
NARAYANPUR, CHATTISGARH**

S.NO	DESCRIPTION	AMOUNT
1	SUB-HEAD I: INTERNAL WIRING	₹ 3,35,981.00
2	SUB-HEAD II:- DISTRIBUTION BOARDS	₹ 54,148.00
3	SUB-HEAD III :- WIRING FOR TELEPHONE & TV	₹ 12,534.00
4	SUB-HEAD IV:- EARTHING	₹ 67,580.00
5	SUB-HEAD V:- LIGHT FIXTURES & FANS	₹ 1,48,891.00
	TOTAL	₹ 6,19,134.00

**SCHEDULE OF QUANTITIES FOR INTERNAL INSTALLATION ELECTRICAL WORK FOR 04nos. TYPE-3 RESIDENCES AT KV
NARAYANPUR, CHATTISGARH**

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD I: INTERNAL WIRING				
	All wiring Item FRLS including provision of conduit, conduit accsories , circuit wiring, switch, box and all fitting completed as required.				
1	Wiring for light point / fan point /exhaust fan point/ call bell point with 1.5 sq.mm FRLS 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 PVC insulated copper conductor single core cable etc. as required.				
	a) Group A	95	Point	518.00	₹ 49,210.00
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit 2 way modular switch,modular plate,suitable GI box and earthing the point with 1.5 sq.mm .FRLS PVC insulated copper conductor single core cable etc as required.	2	Point	770.00	₹ 1,540.00
3	Wiring for light /power plug with 2x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed PVC conduit along with 1 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	575	Meter	162.00	₹ 93,150.00
4	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor single core cable in surface/recessed PVC Conduit as required.				
(i)	2x1.5 sq.mm + 1x1.5 sq.mm earth wire	150	Meter	106.00	₹ 15,900.00
(ii)	2x2.5 sq.mm + 1 x 2.5 sq.mm earth wire	700	Meter	131.00	₹ 91,700.00
(iii)	2 x 4 sq.mm + 1 x 4 sq.mm earth wire	50	Meter	162.00	₹ 8,100.00
(iv)	2x6 sq.mm + 1x6 sq.mm earth wire	50	Meter	221.00	₹ 11,050.00
(v)	2x10 sq.mm + 1x10 sq.mm earth wire.	100	Meter	327.00	₹ 32,700.00
5	Supplying and fixing modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
	5/6 amps switch	25	Each	81.00	₹ 2,025.00
	3 pin 5/6 amps socket outlet	25	Each	79.00	₹ 1,975.00
	15/16 amps switch	15	Each	111.00	₹ 1,665.00
	6 pin 15/16 amps socket outlet	15	Each	150.00	₹ 2,250.00
6	Supplying and fixing of following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
	3 Module (100mmx75mm)	40	Each	175.00	₹ 7,000.00
7	Supplying and fixing call bell/ buzzer suitable for single phase ,230 volts ,complete as required.	4	Each	61.00	₹ 244.00

8	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.				
(i)	25 mm	150	Meter	65.00	₹ 9,750.00
(ii)	32 mm	50	Meter	85.00	₹ 4,250.00
9	Supplying and fixing 20 amps, 240 volts SPN industrial type, socket outlet with 2 pole and earth metal enclosed plug top along with 20 amps 'C' Curve, SP, MCB in sheet steel enclosure on surface or in recess with chained metal cover for the socket outlet and complete with connections, testing & commissioning etc as required.	4	Each	868.00	₹ 3,472.00
SUB-HEAD I TOTAL :					₹ 3,35,981.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUB-HEAD II:- DISTRIBUTION BOARDS					
1	Supplying and fixing following way, single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on surface / recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper conductor upto terminal blocks, tinned copper bus bar, neutral link, earth bus, din bar, detachable gland plate, interconnections, powder painted including earthing etc as required. (But without MCB/RCCB/Isolator)				
	2+8/10 Way, Double door	4	Each	2508.00	₹ 10,032.00
2	Supply 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				
	a) Single pole	40	Each	169.00	₹ 6,760.00
5	Supply and fixing following rating,double pole (single phase and neutral),240 volts,RCCB having a sensitivity current upto 300 amp in the existing MCB DB complete with connection ,testing and commissioning etc. as required.				
	a) 40 amps	4	Each	1714.00	₹ 6,856.00
6	Supplying, erection & commissioning of single front dead back cubical panel complete with cable alleys meter compartment having 75x75x3mm thick acrylic sheet viewing windows and meter, compartment having sealing arrangement & fixing including TPN+E aluminium bus bars and all interconnection with PVC insulated copper conductor cable neon indicating lamps including providing danger plate, painting and with following switchgears etc. and with following switchgears etc. and connections crimped with DOWELS make lugs / ferrules etc. & space for DG sensing interface unit as per specification drgs as required. (Meter Boards)				
M.B with 5 meters					
80A 4P MCCB 16KA - 1no. As Incomer with 150A Bus Bar					
Space for Single phase (20A - 40A 240 Volt) - 5 Nos.					

	40A DP MCB's 10KA in sheet steel enclosures -5 Nos.	1	Each	30500.00	₹ 30,500.00
	SUB-HEAD II TOTAL :				₹ 54,148.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD III :- WIRING FOR TELEPHONE & TV POINTS				
1	Supplying and fixing of following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
	a) 75 mm x 75 mm x 60 mm deep	8	Each	166.00	₹ 1,328.00
2	Supplying and drawing following pair, 0.5.mm dia FR PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
	a) 2 Pair	125	Meter	18.00	₹ 2,250.00
3	Supplying and fixing following modular switch/ socket on the existing modular plate and switch box including connections but excluding plate etc .as required.				
	a) Telephone socket outlet	4	Each	95.00	₹ 380.00
	a) TV outlet	4	Each	94.00	₹ 376.00
4	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.	150	Meter	28.00	₹ 4,200.00
5	Supplying and fixing of the following sheet steel clad wall / recess mounting telephone tag blocks of krone make constructed from 14 SWG sheet steel finished with red oxide coating of two coats of paint with hinged gasketed powder coated door and complete.				
	a) 05 pairs	4	Each	1000.00	₹ 4,000.00
	SUB-HEAD III TOTAL :				₹ 12,534.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD IV:- EARTHING				
1	Earthing with G.I earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 mtr long etc. with charoal or coke and salt as required.	2	Set	4490.00	₹ 8,980.00
2	Providing & fixing 25mm x 5mm GI Strip in 40mm dia GI pipe from earth electrode including connections with GI nut, bolt, spring, washer excavation and re-filling etc. as required.	100	Meter	421.00	₹ 42,100.00
3	Providing & fixing 25mm x 5mm GI Strip on surgace / recess for loop earthing as required.	100	Meter	142.00	₹ 14,200.00

4	Providing & fixing of 6 SWG dia G.I wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	100	Meter	23.00	₹ 2,300.00
	SUB-HEAD IV DSR :				₹ 67,580.00
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB-HEAD V:- LIGHTING FIXTURE AND FANS				
1	Supplying of following type recessed / surface mounted fluorescent light fixture complete with electronic choke earthing point and with TL-5 / CFL lamps complete as required. (HAVELLS / BAJAJ / WIPRO)				
	a) 1x18W CFL Dowlighter	35	Each	1600.00	₹ 56,000.00
	b) 1x28W T5 Tube	15	Each	900.00	₹ 13,500.00
	c) Bracket Light	15	Each	1000.00	₹ 15,000.00
2	Supplying of 305 mm 1400 RPM exhaust fan complete with louver and bird guard screen with 3 core flexible wire as required.	12	Each	2800.00	₹ 33,600.00
3	Supplying of ceiling fan/bracket fans, complete with blades with suitable length of down rods shackle insulator earthing point including connection etc . as required.				
	a) 1200 mm sweep	12	Each	1400.00	₹ 16,800.00
4	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	65	Each	91.00	₹ 5,915.00
5	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	12	Each	95.00	₹ 1,140.00
6	Installtion of exhasut fan up to 450 mm sweep in the existing opening, including making the hole to suit the size of the abvoe fan, making good the damage, connection testiing and commissioning etc as required	12	Each	204.00	₹ 2,448.00
7	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	12	Each	90.00	₹ 1,080.00
9	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required.	12	Each	284.00	₹ 3,408.00
	SUB-HEAD V DSR :				₹ 1,48,891.00