

**Development of Infrastructure at Ayeshpur Horticulture Farm, Nadia**

**Final Abstract of Quoted Price**

Sl. No.	Description	Estimated Amount (Rs.)	% above (+) OR below (-)	Difference Amount (Rs.) [ (+) more, (-) less ]	Final Quoted Amount (Rs.)
A	Civil Works	20481502			
B	Roadworks	16856074			
C	Sanitary & Plumbing Works	1726950			
D	Electrical Works	5693711			
	<b>Grand Total in Rs.</b>	<b>44758237</b>			

Quoted amount is Rupees \_\_\_\_\_

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**Infrastructure Development at Ayeshpur Farm, Nadia**  
**Abstract of Cost**

Sl. No.	Description	Amount (Rs.)
1	Civil works for construction of Caretaker's Room	2173789
2	Security Bit	559668
3	Boundary Wall, Gate & Protective Works	17748045
<b>A</b>	<b>Sub Total Civil Works</b>	<b>20481502</b>
4	Road works with Fencing	15200422
5	Hume Pipe Culvert	1655652
<b>B</b>	<b>Sub Total Road Works</b>	<b>16856074</b>
6	Sanitary & Plumbing works	353350
7	Tube Well & Pump	1373600
<b>C</b>	<b>Sub Total Sanitary &amp; Plumbing</b>	<b>1726950</b>
8	Electrical works	5693711
<b>D</b>	<b>Sub Total Electrical</b>	<b>5693711</b>
	<b>Total in Rs.</b>	<b>44758237</b>
	<b>Total in Rs. Lacs</b>	<b>447.58</b>

**Infrastructure development at Ayeshpur Farm, Nadia**  
**Schedule of Quantities for Civil Works of Caretaker's Room**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.				
	(a) Depth of excavation not exceeding 1500 mm	Cum	31.89	91.62	2922
	(b) Depth of excavation for additional depth beyond 1500 mm upto 3000 mm but not requiring shoring	Cum	21.26	147.99	3146
2	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				
	(a) With earth obtained from excavation of foundation	Cum	8.30	59.20	491
3	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating same by through saturation with water ramming complete, including the cost of supply of sand	Cum	26.40	728.54	19233
4	Supplying and laying polythene sheet (150 gm / sqm) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches	Sqm	62.12	18.60	1155
5	25 mm. thick damp proof with cement concrete (1:1.5:3) (with graded stone aggregate 10 mm normal size) and painting the top surface with a coat of bitumen (VG.40) using 1.7 kg per sqm including heating the bitumen and cost and carriage of all materials complete	Sqm	3.05	262.65	801
6	Antitermite treatment to the top surface of the consolidated earth within plinth walls with chemical emulsion by admixing chloropyrefos emulsifiable concentrates (1% concentration) with water by weight at the rate of 5 Litres per sq. m. of the surfac before sand bed or sub-grade is laid. Hole upto 50 mm to 75 mm. deep at 150 mm. centre to centre both ways shall be made with 12 mm, diameter mild steel rod on the surface to facilate saturation of the soil with the chemical emulsion. The work shall be carried out as per specification described in para 6.4 of Code IS-6313 (part -II) 1981. (Mode of measurment will be plan area of plinth treated)	Sqm	10.66	96.99	1034
7	Ordinary Cement Concrete M-15 (mix 1:2:4) with graded stone chips (20 mm down) excluding shuttering and reinforcement if any in ground floor as per IS 456 - 2000. Pakur variety	Cum	10.66	4976.51	53050

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
8	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand	Sqm	109.86	310.00	34057
9	Hire and labour charges for shuttering with centring and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works				
a	25 mm to 30 mm thick wooden shuttering as per decision and direction of Engineer In Charge				
i)	Upto Ground floor	Sqm	582.69	276.67	161215
ii)	Extra for works beyond the roof of ground floor per additional floor upto 4th (per floor) and in basement	Sqm	233.07	12.04	2806
10	Controlled cement concrete grade M20 mix with well graded stone chips (20 mm. grade), excluding shuttering and reinforcement, with complete design of concrete as per ISI-456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in-charge. Consumption of cement will not be less than 300 kg of cement with super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test & job-mix formula. Using concrete mixer				
	(a) Pakur Variety				
	(i) In foundation & ground floor	cum	98.86	5684.25	561945
	(ii) Add extra over the rate of ground floor for basement and each additional floor above ground floor upto 4th floor	cum	39.54	61.82	2444
11	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every inter-section, complete as per drawing and direction. (i) Tor steel / Mild steel				
	(a) For works in foundation, basement and upto roof of ground floor / upto 4 m	M.T.	5.348	59696.00	319254
	(b) Extra for works beyond the roof of ground floor / initial 4 m upto 4th floor roof in each additional floor	M.T.	2.14	318.47	681
12	Brick work with 1st class bricks in cement mortar (1:6)				
	(i) In foundation and plinth	cum	16.72	4897.20	81881
	(ii) In superstructure, ground floor	cum	25.07	5051.55	126642
	(iii) Add extra for basement and each additional floor over the rate for ground floor upto 4th floor	cum	16.72	70.34	1176

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
13	125 mm thick brick work with 1st class bricks in cement mortar (1:4) in ground floor using approved H.B. netting in every third layer complete in all respect	Sqm	223.63	705.18	157699
14	Supplying & fixing of chicken mesh 150 mm width at every junction of beams and brick work as per specification before plaster (both outside & inside at all slab level)	RM	150.00	150.00	22500
15	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding / staging where necessary (ground floor) (i) With 1:6 cement mortar (a) 20 mm thick plaster	Sqm	409.86	136.04	55757
16	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding / staging where necessary (ground floor) (i) With 1:6 cement mortar (b) 15 mm thick plaster	Sqm	160.12	115.21	18448
17	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding / staging where necessary (ground floor) (i) With 1:4 cement mortar (c) 10 mm thick plaster	Sqm	69.60	104.39	7266
18	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame. (a) Sal : Malaysian	Cum	0.34	70603.00	24005
19	Supplying, fitting and fixing M.S. clamp for door and window frame made of flat bent bar, end bifurcated with necessary screws etc. by cement concrete (1:2:4) as per direction (a) 40 mm X 6 mm, 250 mm length	each	124.00	33.97	4212
20	Supplying solid flush type doors of commercial quality, the timber frame consisting of top and bottom rails and side styles of well seasoned timber 65mm wide each and the entire frame fitted with 37.5mm wide battens places both ways in order to make the door of solid core and internal lipping with Garjan or similar wood veneers using phenol formaldehyde as glue etc. complete, including fitting, fixing shutters in position but excluding the cost of hinges and other fittings in ground floor. (a) 35 mm thick shutters (single leaf)	Sqm	23.10	2446.30	56510

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
21	Glazed shutter of doors, windows, fan light, clerestory windows, etc. as per design (with ordinary glass of 7.4 kg/sqm, 3 mm thick) fitted with putty bed and teak wood bead and nails including fitting and fixing shutter in position but excluding the cost of hinges and other fittings, cost of glass, putty, wooded beads, etc. which will be paid separately in ground floor				
	(a) 35 mm thick shutters Sishu, Gamar, Champ, Badam, Bholra, Mogra, Hallak	Sqm	25.02	2,126.18	53197
22	Supplying bubble free float glass of approved make and brand conforming to IS : 2835-1987. 5 mm thick clear glass	sqm	25.02	604.38	15122
23	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark				
	(i) 100 mm X 58 mm X 1.90 mm	each	30.00	45.55	1367
24	Iron socket bolt of approved quality fitted and fixed complete				
	(a) 150 mm long X 10 mm dia bolt	each	27.00	58.33	1575
	(b) 300 mm long X 10 mm dia bolt	each	18.00	100.49	1809
25	Supplying 'Godrej' mortice lock chromuim plated with keys 6 levers including fitting & fixing complete	each	6.00	1404.06	8424
26	Anodised aliminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete				
	(i) 125 mm grip X 12 mm dia rod	each	20.00	106.72	2134
27	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16 mm dia rod with center bolt and round fitting. 300 mm long	each	6.00	182.66	1096
28	(a) M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.				
	(i) Grill weighing above 10 Kg/sq.mtr and upto 16 Kg/sqm.	Kg	400.32	66.75	26721
29	Rendering the surface of walls and ceiling with plaster of paris (thickness not less than 1.5 mm)	Sqm	229.71	59.12	13580
30	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two coats	Sqm	160.12	61.69	9878

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
31	Applying decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (plastered or concrete surface) as per manufacturer's specification. In all floors for 2 coats	Sqm	409.86	43.28	17739
32	Painting with best quality synthetic enamel paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :				
	(a) On timber or plastered surface :				
	(i) Two coats (white in shade)	sqm	96.24	61.96	5963
	(b) On steel or other metal surface :				
	(i) Two coats (white in shade)	sqm	50.04	59.67	2986
33	Applying 2 coats of non toxic acrylic polymer modified paint having adhesive and water proofing properties by mixing in proportion (1 liquid : 4 cementitious material) or as per manufacturer's specification for water proofing layer	sqm	62.12	280.86	17447
34	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials, etc.				
(a)	<u>Floor</u> : With sand cement mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 kg/sqm & joint filling using white cement slurry @ 0.20 kg/sqm. Area of each tile above 0.09 sqm. Coloured decorative	SqM	9.00	752.81	6775
(b)	<u>Wall</u> : With sand cement mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 kg/sqm & joint filling using white cement slurry @ 0.20 kg/sqm. Area of each tile above 0.09 sqm. Coloured decorative	SqM	32.88	957.57	31485

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
35	<p>35 mm thick (finished) Terrazo work, cast in situ in floor and 20 mm thick (finished) in dado, skirting, staircase, etc. laid in panels of pattern using cement concrete (1:2:4) backing with 12 mm stone chips as directed and necessary terrazo topping with mosaic chips including rounding off corners with high polishing, etc. complete as per specification laid down in I.S : 2114-1962 including raking out joints or roughning of concrete surface &amp; application of cement slurry before flooring works using cement @ 1.75 kg/sqm all complete including all materials &amp; labour. (Add extra @ 1.5% for each additional floor upto 4th floor) (White cement to be supplied by the contractor including cost thereof)</p> <p>In Ground Floor</p> <p>(a) 12 mm thick terazo topping, laying and finishing to 9 mm thick after final grinding with 0 to 10 mm size mosaic chips</p> <p>(1) In pink, green, yellow, light green colour using white cement only and necessary pigment</p>	sqm	23.89	771.39	18429
36	<p>20 mm thick (finished) Terrazo work with precast tiles set in lime / cement mortar (3:1) and sides with admixture of pigment and white cement in floor, dado, skirting, staircase, etc. laid in panels or in patterns including necessary levelling course in lime / cement mortar (3:1) high polishing etc. including application of cement slurry before flooring works using cement @ 1.75 kg/sqm all complete including all material and labour.</p> <p>(a) 12 mm thick Terrazo topping, laying and finished to 9 mm thick after final grinding with 0 to 10 mm size mosaic chips.</p> <p>In pink, green, yellow, light green colour using white cement only and necessary pigment</p>	sqm	112.80	984.03	110999
37	<p>Wood work in upper rails of railing, hand rail of staircase, balcony etc. includig necessary bends, moulding fitted and fixed complete (for purpose of payment section will be measured in the square).</p> <p>(a) Sishu, Gamar, Champ, Badam, Bhola, Mogra, Hallak</p>	Cum	0.05	74160.97	3708



Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
38	Providing Water proofing treatment over concrete roof surface (old or new) by the application of two coats of slurry prepared with latex of approved brand, water & cement in proportion of (LP.W. Cement - 1:4:6) by volume, with brush in a time gap of min 4 hours to 14 hours between the two layers, laying 20 mm thick sand & cement consolidated plaster (1:4) admixed with plastocrete Super of approved brand 0.2% by weight of cement, laying flat 1st class brick bats / bricks over the mortar keeping a gap of 10-20 mm between two bats, filling the vertical joints with the aforeside mortar, providing a second layer of 20 mm thick sand & cement plaster (1:4) admixed with Plastocrete Super as above over the brick layer, the top surface of the treatment should be chequered to provide the antistrip property				
	(i) By 1st class brick bats (cement 29.66 kg/sqm)	SqM	62.12	623.16	38711
39	Plinth protection 450mm wide with neat cement finish above P.C.C. (1:3:6) 100mm thick & single layer brick flat soling.	Sqm	25.80	800.00	20640
40	Neat cement punning about 1.5 mm thick in wall, dado, window, sills, floor, drain etc. Note : Cement 0.152 cum per 100 sqm	sqm	25.80	31.16	804
41	Supplying and laying chequered tile of any shade & of approved quality with (1:1½:3) cement concrete laid in panels or patterns as directed in pavement, footpath etc. including necessary underlay 25 mm thick (avg) cement mortar (1:3) complete in all respect with all labour and materials. (Using cement slurry @ 4.4 kg/sqm at back side and 2.4 kg/sqm for joint filling). Red Variety				
	(i) 25 mm thick	sqm	25.00	462.82	11571
42	Brick pavement with 1st class or picked jhama bricks as directed with joints set close in cement mortar (1:6) and rule flush pointing with cement mortar (1: 4)				
	(a) When laid with a cushion of sand below (including cost thereof) One brick-on-edge pavement (cement 10.7 kg/sqm)	sqm	50.00	626.00	31300
				<b>Total (Rs.)</b>	<b>2173789</b>
				<b>Total (in Rs. Lacs)</b>	<b>21.74</b>

**Development of Infrastructure at Ayeshpur, Nadia**  
**Schedule of Quantities for Civil Works of Security Bit**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.				
	(a) Depth of excavation not exceeding 1500 mm	Cum	7.36	91.61	674
2	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				
	(a) With earth obtained from excavation of foundation	Cum	4.41	59.20	261
3	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating same by through saturation with water ramming complete, including the cost of supply of sand	Cum	0.50	728.54	364
4	Supplying and laying polythene sheet (150 gm / sqm) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches	Sqm	9.00	18.60	167
5	Antitermite treatment to the top surface of the consolidated earth within plinth walls with chemical emulsion by admixing chloropyrefos emulsifiable concentrates (1% concentration) with water by weight at the rate of 5 Litres per sq. m. of the surfac before sand bed or sub-grade is laid. Hole upto 50 mm to 75 mm. deep at 150 mm. centre to centre both ways shall be made with 12 mm, diameter mild steel rod on the surface to facilate saturation of the soil with the chemical emulsion. The work shall be carried out as per specification described in para 6.4 of Code IS-6313 (part -II) 1981. (Mode of measurment will be plan area of plinth treated)	Sqm	9.00	96.99	873
6	Ordinary Cement Concrete M-15 (mix 1:2:4) with graded stone chips (20 mm down) excluding shuttering and reinforcement if any in ground floor as per IS 456 - 2000. Pakur variety	Cum	0.55	4976.51	2737
7	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand	Sqm	5.50	310.00	1705

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
8	Hire and labour charges for shuttering with centreing and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works				
a	25 mm to 30 mm thick wooden shuttering as per decision and direction of Engineer In Charge				
i)	Upto Ground floor	Sqm	1.34	276.67	371
9	Brick work with 1st class bricks in cement mortar (1:6)				
	(i) In foundation and plinth	Cum	3.22	4897.20	15769
	(ii) In superstructure, ground floor	Cum	2.14	5051.55	10810
10	Supplying & fixing of chicken mesh 150 mm width at every junction of beams and brick work as per specification before plaster (both outside & inside at all slab level)	RM	3.00	150.00	450
11	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding / staging where necessary (ground floor) (i) With 1:6 cement mortar (a) 20 mm thick plaster	Sqm	17.280	136.04	2351
12	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : (b) On steel or other metal surface : (i) Two coats (white in shade)	Sqm	1.54	59.67	92
13	Colour washing with "ELLA" with a coat of white wash priming including cleaning and smoothening surface thoroughly. Internal (all floors) 2 coats	Sqm	17.28	14.84	256
14	Applying decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (plastered or concrete surface) as per manufacturer's specification. In all floors for 2 coats	Sqm	17.28	43.29	748

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
15	Artificial stone in floor, dado, staircase, etc. with cement concrete concrete (4:2:1) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marbel dust in proportion (2:1) including smooth finishing and rounding off corners and including application of cement slurry before flooring works, using cement @ 1.75 Kg / sqm all complete including all material and labours. In ground Floor 3 mm thick topping (high polishing and grinding on this item is not permitted with ordinary cement) 20 mm thick	sqm	2.71	202.64	549
16	M.S. structural works in cloumns, beams, etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS : 226, 808 and SP - (6), 1964 connected to ne another with bracket, gusset, cleat as per design & direction of Engineer-in-charge complete including cutting to requisite shape & length, fabrication with necessary bolting, metal are welding confirming to IS: 816-1956 & IS: 1995 using electrodes of approved make and brand conforming to IS: 814-1957, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charges of all tools & plants, labour required for the work including all incidental charges (such as electricity, labour insurance etc.) complete.				
	(II) For structural works in roof trusses, etc. using joists, channels and angles of specified section weighing less than 22.5 Kg / meter	MT	0.22	68598.44	15092
17	Galvanized corrugated iron sheet work (excluding the supporting frame work) fitted and fixed with 10 mm. dia J or L hook-bolts, limpet and bitumen washers and putty complete with 150 mm end lap and one corrugation minimum side lap.				
	(i) In roof (b) With 0.80 mm thick sheet	sqm	3.96	681.03	2697
<b>Total (Rs.) for 1 Security Bit</b>					<b>55967</b>
<b>For 10 nos Security Bit in Rs.</b>					<b>559668</b>
<b>Total (in Rs. Lacs) for 10 nos Security Bit</b>					<b>5.60</b>

**Development of Infrastructure at Ayeshpur, Nadia****Schedule of Quantities for Boundary Wall, Gate and Protective Works**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.				
	(a) Depth of excavation not exceeding 1500 mm	Cum	2886	91.62	264415
2	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				
	(a) With earth obtained from excavation of foundation	Cum	2032	59.20	120294
3	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand	Sqm	3051	310.00	945810
4	Ordinary Cement Concrete M-15 (mix 1:2:4) with graded stone chips (20 mm down) excluding shuttering and reinforcement if any in ground floor as per IS 456 - 2000. Pakur variety	Cum	229	4976.51	1139621
5	Hire and labour charges for shuttering with centreing and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works				
a	25 mm to 30 mm thick wooden shuttering as per decision and direction of Engineer In Charge				
i)	Upto Ground floor	Sqm	4727	276.67	1307819

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
6	Controlled cement concrete grade M20 mix with well graded stone chips (20 mm. grade), excluding shuttering and reinforcement, with complete design of concrete as per ISI-456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in-charge. Consumption of cement will not be less than 300 kg of cement with super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test & job mix formula. Using concrete mixer				
	(a) Pakur Variety				
	(i) In foundation & ground floor	Cum	738	5684.25	4194977
7	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every inter-section, complete as per drawing and direction. (i) Tor steel / Mild steel				
(i)	(a) For works in foundation, basement and upto roof of ground floor / upto 4 m	M.T.	21	59696.00	1253616
8	Brick work with 1st class bricks in cement mortar (1:6)				
	(i) In foundation and plinth	Cum	0	4897.20	0
	(ii) In superstructure, ground floor	Cum	86	5051.55	434433
9	125 mm thick brick work with 1st class bricks in cement mortar (1:4) in ground floor using approved H.B. netting in every third layer complete in all respect	Sqm	4297	705.18	3030158
10	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding / staging where necessary (ground floor) (i) With 1:6 cement mortar (a) 20 mm thick plaster	Sqm	12967	136.04	1764031
11	Applying decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (plastered or concrete surface) as per manufacturer's specification. In all floors for 2 coats	Sqm	12967	43.29	561341

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
12	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :				
	(b) On steel or other metal surface :				
	(i) Two coats (white in shade)	Sqm	293	59.67	17483
13	M.S. structural works in cloumns, beams, etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS : 226, 808 and SP - (6), 1964 connected to one another with bracket, gusset, cleat as per design & direction of Engineer-in-charge complete including cutting to requisite shape & length, fabrication with necessary bolting, metal are welding confirming to IS: 816-1956 & IS: 1995 using electrodes of approved make and brand conforming to IS: 814-1957, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charges of all tools & plants, labour required for the work including all incidental charges (such as electricity, labour insurance etc.) complete.				
	(l) For structural members of specified sections weighing not less than 22.5 Kg / meter	MT	6.597	67762.77	447031
14	Supplying, fitting, galvanised 3 ply 12 gauge / 4 points line of barbed wire in fencing (holes already made in the body of the post) or fixed by stapeles tightening or fixing the wires in taut condition with straining bolts including the cost of cutting and of lapping joints in the wire as necessary but excluding the cost of galvanised stapeles, straining bolts and binding wires where necessary.	meter	15095	26.90	406056
15	Labour for fitting wove wire or similar fencing net tightening and fixing the same to the post with stapeles at every bar (including the cost of cutting and lapping joints in the nets, the cost of stapeles, binding wire, etc. and of labour for fixing such stapeles as necessary). (a) net upto 1350 mm height	meter	15095	7.20	108684

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
15	Supplying, fitting, fixing, Chain Link Fencing of approved quality with RCC posts, wooden posts or Iron posts by means of galvanised 'C clips' to grid of horizontal strands of galvanised high tensile spring steel wire of 12 S.W.G which had to be tensioned and fixed to the vertical post by means of Galvanised special clips, bolts and nuts, etc. 100 mm X 100 mm X 6 g	Sqm	1129	452.91	511335
16	M.S gate of jail type as per approved design made of strong M.S framework, intermediate stiffeners and round/square bars or angles. M.S sheet (not less than 14 gauge), gussets, cleats etc including necessary riveting, bolting, welding, locking and hanging arrangements, fitting and fixing complete as per direction of the Engineer-in-charge.	MT	0.99	77313.50	76540
17	Sandfilling at the pond areas	cum	200	728.54	145708
18	Bamboo piles walling made of 65mm to 75mm dia bamboo etc.	meter	627	596.00	373692
19	Supplying, fitting & fixing drum sheet at bamboo pile.	sqm	1000	289.00	289000
20	Country nails supplying, fitting fixing in the top of boundary wall.	Kg	4000	89.00	356000
				<b>Grand Total (Rs.)</b>	<b>17748045</b>
				<b>Grand Total (Rs. Lacs)</b>	<b>177.48</b>



**Development of Infrastructure at Ayeshpur, Nadia**  
**Schedule of Quantities for Road works with Fencing**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	<b>Box cutting or filling</b> in road embankment in all sorts of soil including spreading the spoils properly over the flank as necessary or on berm to approximate grade & camber and rolling the subgrade with power roller to proper camber and grade as per direction and satisfaction of Engineer-in-charge including uprooting and removing plants and jungles when and where necessary				
	i) Depth upto 150 mm	sqm	20650	7.78	160657
	ii) Depth above 150 mm & upto 300 mm	sqm	5162	9.70	50071
2	<b>Earthwork in filling</b> , in compound, tank, lowland, ditches, etc. with good earth in layers not exceeding 150 mm including breaking clods and consolidating the same by ramming and dressing completely. (a) With carried earth arranged by the contractor within a radius of 5 Km but not exceeding 10 Km including cost of carried earth	Cum	7744	494.93	3832738
3	Supply, spreading, consolidating, grading, laying, compacting, watering, etc. all complete in all respect for <b>Jhama Metal</b> of size 63 mm to 45 mm for compacted thickness 75 mm	Sqm	11615	142.12	1650724
4	Labour for spreading & compacting approved stone aggregates to <b>Wet Mix Macadam</b> specification including screening of aggregates and granular materials, mixing the materials in proper grading using mechanical mixyure, adding water to achieve require OMC, carrying the mix to work site using tipper trucks within a lead of 10 km, laying the mixed materials in uniform thickness over prepared surface, rolling with 8-10 T roller in stages to proper grade, chamber, until the desired density is achieved, including supply of all materials, machineries, fuels, and lubricants, including incidental costs for lighting, guarding, barricading, making of earthen berm to protect the edges, controlling traffic, etc. as per direction of Engineer-in-charge complete, including cost of quality control.	Cum	1646	1851.13	3046960

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
5	<p>Laying <b>Bituminous Macadam</b> of specified rate using hot mix plane (HMP) and using approved aggregates confirming to specified grading and bitumen over prepared surface, including carrying the hot pre-mixed materials by means of tipper truck, spreading, the mixed material at specified laying temperature over the prepared surface by means of a suitable paver finisher, tamping and finishing the mix to specified grade, line and camber, thorough rolling for suitable power rollers for break down, intermediate and finished rolling as per specification, hand packing and pinning to give an even surface including cost and carriage of stone materials and bitumen, and higher charges of HMP and all other machines and equipments, cost of fuels and wages of operational staff, quality control as per IRC specification all complete excluding applying tack quote.</p> <p>In base/binder course using 3.4% binder content by weight of total mix 50mm compacted thickness using HMP of capacity 40-60 TPH</p>				
	<p>(A) On Black top surface without tack coat. I) 50 mm compacted thickness:</p> <p>In base/binder course using 3.4% binder content by weight of total mix 50mm compacted thickness using HMP of capacity 40-60 TPH</p>	Sqm	10760	339.69	3655064

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
6	Providing & laying 20 mm thick open graded <b>Pre Mixed Carpet</b> by Hot Mix plant using 13.2mm @ 0.018m <sup>3</sup> /m <sup>2</sup> and 11.2 mm @ 0.009m <sup>3</sup> /m <sup>2</sup> size stone aggregates including thorough cleaning of the and pre heating stone chips and fully pre-coating the same with hot matrix @ 54kg/m <sup>3</sup> of aggregate mix, carrying the mixture by tipper trucks or by any other suitable arrangements , laying the mixture uniformly over the surface with paver finisher, including manual operations as and when required for proper level, grade and camber thoroughly rolling by power roller including the cost and carriage of stone chips and matrix , heating the matrix , preheating the aggregates to required temperature and including the hire charges of hot Mix plant and other machineries , pay of operators , cost of fuel and lubricants etc all complet cost of applying tack coat (a) using HMP of capacity 40-60TPH				
	(a) using HMP of capacity 40-60TPH (a) applying tack coat over water bound macadam surface @ 4kg/10m <sup>2</sup>	Sqm	10755	128.01	1376748
7	Supplying & laying <b>premixed Seal Coat</b> (type ' B ') using 0.6 m <sup>3</sup> of grit or sand (passing 2.36 mm sieve & retained on 180 micron) per 100 sqm area including cleaning the surface, preheating the grit/sand by Miller/Mixer/ Suitable pans, mixing the preheated grit/sand with hot matrix @ 113.50kg per m <sup>3</sup> of grit/sand, laying the mixture uniformly over the surface & rolling with power roller including the cost & carriage of grit/sand,& matrix, heating matrix, & grit/sand. Using mobile hot mix plant	Sqm	10755	48.47	521295
8	Laying <b>tack coat over WMM surface @ 4 Kg / 10 sqm</b> using Cationic Bitumen Emulsion	Sqm	10970	22.50	246825
9	Laying <b>tack coat over Black Top surface @ 3kg / 10 sqm</b> using Cationic Bituminous Emulsion	Sqm	10755	17.72	190579

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
10	Supplying, fitting, fixing, Chain Link Fencing of approved quality with RCC posts, wooden posts or Iron posts by means of galvanied 'C clips' to grid of horizontal strands of galvanised high tensile spring steel wire of 12 S.W.G which had to be tentioned and fixed to the vertical post by means of Galvanised special clips, bolts and nuts, etc. 100 mm X 100 mm X 6 g	Sqm	1035	452.91	468762
			<b>Grand Total (Rs.)</b>		<b>15200422</b>
			<b>Grand Total (Rs. Lacs)</b>		<b>152.00</b>

**Development of Infrastructure at Ayeshpur, Nadia**  
**Schedule of Quantities for Hume Pipe Culvert & main water outlets**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Earthwork in excavation for foundation of structures as per drawing and technical specification including setting out, removing, spreading or stacking of spoils within a lead of 150 m as directed and including trimming the sides of the trenches, levelling, dressing and ramming the bottom, complete as per direction of the Engineer-in-charge in all sorts of soil excluding marshy soil & rocks (soft or hard) by manual means				
	(a) Depth upto 3 m. With pumping out water including shoring as required	cum	61.800	49.70	3071
2	Earthwork in filling in foundation trenches with good earth in layers not exceeding 15 cm including watering and ramming layer by layer complete with earth obtained from excavation of foundation or from fresh excavation of land arranged by department within a lead of 150 m	cum	43.260	39.00	1687
3	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand	Sqm	206.000	310.00	63860
4	Ordinary Cement Concrete M-15 (mix 1:2:4) with graded stone chips (20 mm down) excluding shuttering and reinforcement if any in ground floor as per IS 456 - 2000. Pakur variety	Cum	66.273	4976.51	329809

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
5	Supplying, spreading and compacting sand to required thickness, in layers not exceeding 150 mm to proper gradient and camber, inundating each layer by water and packing and ramming layer by layer to achieve compaction including cost of <b>sand</b> but including lighting, guarding, barricading and making adequate earthen bundh where necessary, curing with water as per direction, mending cracks and depressions by ramming wherever necessary.	Cum	151.800	640.16	97176
6	Supplying, laying RCC Hume Pipe in proper position including handling within 50 m lead, fitting and fixing with collars and fixing the joints with 1:2 cement sand mortar and jute packing etc. complete including the cost of cement sand and jute packing. 1000 mm diameter NP-3	meter	90.000	5173.47	465612
7	First class brick work in cement sand mortar in steining of well, pier, abutment, wing wall, parapets cross drain. H.P. culverts, guard wall, etc. including curing, scaffolding, raking out joints etc. complete including cost and carriage of all materials				
	(a) in 1 : 6 proportion	cum	90.359	4623.00	417729
8	Plaster with sand and cement mortar including rounding of corners or chamfering corners as directed and including raking out joints or roughening of concrete surface, curing with cost and carriage of all materials				
	(a) With 6:1 cement mortar for 20 mm thick plaster	sqm	240.500	71.60	17220

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
9	Controlled cement concrete grade M20 mix with well graded stone chips (20 mm. grade), excluding shuttering and reinforcement, with complete design of concrete as per ISI-456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in-charge. Consumption of cement will not be less than 300 kg of cement with super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test & job-mix formula. Using concrete mixer				
	(a) Pakur Variety				
	(i) In foundation & ground floor	m <sup>3</sup>	16.500	5684.25	93790
10	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups,binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape,placing in proper position and binding with 16 gauge black annealed wire at every inter-section, complete as per drawing and direction. (i) Tor steel / Mild steel				
	(a) For works in foundation, basement and upto roof of ground floor / upto 4 m	MT	2.150	59696.00	128346
11	Hire and labour charges for shuttering with centreing and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works				
a	25 mm to 30 mm thick wooden shuttering as per decision and direction of Engineer In Charge				

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
i)	Upto Ground floor	m <sup>2</sup>	135.000	276.67	37351
				<b>Total (Rs.)</b>	<b>1655652</b>
				<b>Total (in Rs. Lacs)</b>	<b>16.56</b>



**Infrastructure development at Ayeshpur Farm, Nadia**  
**SCHEDULE OF QUANTITIES FOR SANITARY & PLUMBING WORKS**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
<b>SUBHEAD "A":- SANITARY FITTINGS &amp; FIXINGS</b>					
1	Supplying, fitting and fixing Orissa pattern water closet in white glazed vitreous chinaware of approved make in position complete excluding 'P' or 'S' trap (excluding cost of concrete for fixing) 580 mm X 440 mm	Sets	0	1660.00	0
2	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts, etc. With 'S' trap	Sets	2	1372.00	2744
3	Supplying, fitting and fixing Closet seat of approved make with lid and C.P hinges, rubber buffer and brass screws complete. a) E.W.C.				
	Bestolite (solid type) white	Each	2	762.00	1524
4	Supplying, fitting & fixing 10 litre low-down cistern conforming to I.S specification with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket, etc.	Each	2	1129.00	2258
5	Supplying, fitting and fixing white vitreous china best quality approved make wash basin with C.I. brackets on 75 mm x 75 mm wooden blocks. C.P. waste fittings of 32 mm dia. one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 30 mm dia. approved quality PVC waste pipe with C.P. nut 32 mm dia. 900 mm long approved quality PVC connection pipe with heavy brass C.P nut including mending good all damages and painting the brackets with two coats of approved paint. a) 550 mm x 400 mm size	Sets	2	2038.00	4076
6	Supplying, fitting and fixing porcelain soap tray of approved make Recessed soap tray of size 150 mm X 150 mm	Sets	2	375.00	750
7	Supplying, fitting and fixing stainless steel sink complete with waste fittings and two coats of painting of C.I. brackets. (a) Sink with drain board 1050 mm X 450 mm X 180 mm	Sets	0	5993.00	0
8	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete. (i) 590 mm X 390 mm X 380 mm	Sets	0	2937.00	0

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
9	Supplying, fitting and fixing porecelain partition wall of approved make for size of 618 mm X 310 mm complete in all respect	each	0	1246.00	0
10	Supplying, fitting and fixing urinal flush pipe fitting of approved brand (a) C.P. urinal flush pipe fittings range of one	Each	0	448.00	0
11	Supplying, fitting and fixing Half round channel with or without outlet as required set in cement concrete (6:3:1) with jhama chips complete (i) 600 X 100 mm White vitreous chinaware	mtr	0	546.00	0
12	Supplying, fitting and fixing bib cock or stop cock Chromium plated Bib Cock long body with wall flange with aerator (Equivalent to Code No. 512 & Model - Tropical / Sumthing Special of ESSCO or similar brand)	Each	4	648.00	2592
13	Supplying, fitting and fixing bib cock or stop cock Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand)	Each	12	511.00	6132
14	Supplying fitting fixing best quality CP Spreader for Urinal	Each	0	400.00	0
15	Supplying, fitting and fixing shower of approved brand and make. Chromium plated rose shower with revolving joint and 150 mm long shower arm (Equivalent to Code No. 5489 & Model - Florentine of Jaquar or similar brand)	Each	2	1570.00	3140
16	Supplying, fitting & fixing approved brand P.V.C CONNECTOR white flexible with both ends coupling with heavy brass C.P nut, 15mm dia				
a	300 mm long	Each	2	38.00	76
b	450 mm long	Each	2	56.00	112
<b>SUBHEAD "B":- TOILET REQUIREMENTS</b>					
1	Supplying, fitting and fixing bevelled edged mirror 5.5 mm thick silver red as per I.S. 3438 / 1965 together with brass C.P. hinges. (i) 600 mm X 450 mm	Sets	2	441.00	882
2	Supplying, fitting and fixing liquid soap container Cromium plated	Nos.	2	428.00	856
3	Supplying, fitting and fixing towel rail with two brackets. C.P. over brass 25 mm dia 600 mm long	Nos.	2	339.00	678

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
4	Supplying, fitting and fixing dome shaped C.P. waste grating for urinals. (i) 50 mm	Nos.	0	289.00	0
5	Supplying, fitting and fixing C.I. round grating a) 100 mm dia	Each	4	58.00	232
<b>SUBHEAD "C":- WATER SUPPLY (INTERNAL &amp; EXTERNAL)</b>					
1	Supplying, fitting and fixing in position G.I.pipes of TATA make for underground works with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbow, nipple, short piece etc. including cost of all materials, jointing materials, cutting pipes, making threads, cutting trenches upto 1.5 metre below surface in all sorts of soil and refilling the same as directed with two coats of painting on G.I. pipes and specials with bituminous paint complete in all respect.				
a)	15 mm dia medium quality	Mtrs	10	202.00	2020
b)	20 mm dia medium quality	Mtrs	5	229.00	1145
c)	25 mm dia medium quality	Mtrs	4	309.00	1236
d)	32 mm dia medium quality	Mtrs	4	342.00	1368
e)	40 mm dia medium quality	Mtrs	3	390.00	1170
f)	50 mm dia medium quality	Mtrs	2	507.00	1014
g)	80 mm dia medium quality	Mtrs	2	829.00	1658
2	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only).				
a)	20 mm dia	Nos.	1	550.00	550
b)	25 mm dia	Nos.	1	708.00	708
c)	32 mm dia	Nos.	1	1015.00	1015
3	Providing and making threads on pipe sleeves including M.S. disc. fabrication work on G.I. pipe work for insertion in water storage tanks of about 400mm long as shown in the drawing and as per direction.				
a)	32 mm dia G.I. sleeve	Nos.	1	170.00	170
b)	40 mm dia G.I. sleeve	Nos.	1	204.00	204
c)	50 mm dia G.I. sleeve	Nos.	1	230.00	230
4	Supply, fitting & fixing approved quality P.V.C. water storage tanks with closed top with lid (black) multilayer (a) 5,000 litres capacity	Each	1	30613.00	30613
<b>SUBHEAD "D" : SOIL/WASTE/VENT/PIPES &amp; SPECIALS</b>					

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Cast iron soil pipe only conforming to I.S. 3989 / 1970 and I.S. 1729/1964 with bobbins, nails etc. including making holes in the wall, floor etc. and cutting trenches etc. in any floor through masonry concrete, if necessary, and mending good damages with necessary jointing materials and painting two coats to the exposed surface with approved paint complete. With lead caulked joints				
a)	50 mm dia (internal)	Mtrs	10	489.00	4890
b)	100 mm dia (internal)	Mtrs	15	768.00	11520
c)	150 mm dia (internal)	Mtrs	5	1294.00	6470
2	Providing fitting fixing cast iron P or S trap conforming to IS 3989/1970 and IS 1729/1964 including lead caulked joints and painting two coats to the exposed surface, 'P' Trap 100 mm dia	No	2	943.00	1886
3	Supplying, fitting and fixing Cast Iron double branch equal with door conforming to IS:1729-1970 including Jointing and painting two coats to the exposed surface complete. With lead caulked joints				
	(a) 100 mm dia	each	3	1063.00	3189
4	Supplying, fitting and fixing Cast Iron double branch equal without door conforming to IS:1729-1970 including Jointing and painting two coats to the exposed surface complete. With lead caulked joints				
	With valamoid joints including sealing the top with cement mortar (4:1)				
	(a) 50 mm dia	each	2	664.00	1328
5	Supplying, fitting and fixing Cast Iron single branch equal with door conforming to IS:1729-1970 including Jointing and painting two coats to the exposed surface with approved paint complete. With lead caulked joints				
	(a) 100 mm dia	each	2	855.00	1710
6	Supplying, fitting and fixing H.C.I. bend with door conforming to I.S.S. including jointing complete and painting two coats to the exposed surface with approved paint complete With lead caulked joints				
	(a) 100 mm dia	each	2	593.00	1186
7	Supplying, fitting and fixing H.C.I. bend without door conforming to I.S.S. including jointing complete and painting two coats to the exposed surface with approved paint complete With lead caulked joints				
	(a) 100 mm dia	each	3	530.00	1590
	(b) 50 mm dia	each	2	309.00	618

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
8	Cast Iron fitting for soil pipe line conforming to IS:1729-1970 including jointing and fitting and fixing in position and painting two coats to the exposed surface complete including cost of all materials and labour.				
	Double "Y" junction of 150 mm dia X 100 mm dia X 100 mm dia. With door.				
	With lead caulked joints	each	2	1758.00	3516
9	Supplying, fitting and fixing Cast Iron extension pipes for using in traps only (connector) conforming to IS:3989 and IS:1729-1964 including lead caulked joints complete and painting two coats to the exposed surface with approved paint complete.				
	(i) 100 mm x 300 mm	each	5	502.00	2510
	(ii) 100 mm x 450 mm	each	3	586.00	1758
	(iii) 100 mm x 600 mm	each	2	663.00	1326
10	Supplying, fitting & fixing approved patent vent cowl I.C.I conforming to I.S.S and painting two coats to the exposed surface with approved paint complete 100 mm dia	No	2	317.00	634
11	Supplying, fitting and fixing half round channel with or without outlet as required set in cement concrete (6:3:1) with jhama chips complete 600 mm X 150 mm White vitreous chinaware	Mtr	0	729.00	0
12	Supplying, fitting & fixing approved brand 32 mm PVC waste pipe, with copupling at one end fitted with necessary clamps 750 mm long	No	2	66.00	132
<b>SUBHEAD "E" : RAIN WATER PIPES</b>					
1	Supplying, fitting and fixing P.V.C. pipes of approved make of (medium duty) conforming to ASTM D - 1785 and threaded to match with GI pipes as per IS:1239 (Part-I) with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece, etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. For exposed work PVC pipes				
	i) 100 dia P.V.C. pipe	Mtrs	30	887.00	26610
	ii) 150 dia P.V.C. pipe	Mtrs	20	1669.00	33380
<b>SUBHEAD "F" : EXTERNAL DRAINAGE WORK</b>					

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Supplying, fitting and fixing with cement jointing (3:1) salt glazed stoneware pipe including excavation of earth upto 1.50 meter depth in all sorts of soil both mixed or unmixed and refilling				
a)	150 mm	Mtrs.	20	300.00	6000
b)	225 mm	Mtrs.	10	502.00	5020
2	Supplying, fitting and fixing yard gully with approved H.C.I grating complete 225 mm X 150 mm with 230 mm gratings	Each	10	514.00	5140
3	Constructing Inspection pit of inside measurement 600 mm x 600 mm x upto 600 mm (depth) with 250 mm thick first class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100 mm thick cement concrete (1:3:6) with stone chips over a layer of jhama brick flat soling, 15 mm thick (1:4) cement plaster to inside walls and outside walls upto GL and 20 mm thick (1:4) plaster to bottom of the pit, providing necessary invert with cement concrete (1:3:6) with stone chips as per direction, neat cement finishing to entire internal surface, top of the pit covered with 100 mm thick R.C.C slab (1:1.5:3) with stone chips and necessary reinforcements upto 1% and shuttering including 6 mm thick cement plaster (1:4) in all external surfaces of the slab and one 560 mm dia. R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earthwork in excavation in all sorts of soil, filling side of the pit, with earth and removing spoils after work complete in all respect with all costs of labour and materials. With Bazree (N.B. Variety)	Each	5	6434.00	32170
a	Extra for each additional depth of 150 mm or part thereof beyond initial 600 mm depth	Each	1	1213.00	1213
4	Construction brick masonry chamber 450 mm x 450 mm x 600 mm deep inside in cement mortar 1:4 for peets valve/stop cock with C.I. surface box 100 x 100 x 75 mm inside with hinged cover and frame fixed in cement concrete slab (1:2:4) mix (1 cement, 2 sand and 4 graded stone ballast) with necessary excavation, foundation concrete 1:4:8 mix and 100 mm thick (1 cement, 4 sand and 8 graded stone ballast) 40mm down & plastering with cement mortar 1:3 finished with a coat of floating neat cement.	Nos.	2	17225.00	34450

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
5	Construction of septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (1:4) including two 560 mm dia RCC manhole cover (heavy type) of approved make supplied, fitted and fixed in the 100 mm thick RCC (1:1.5:3) top slab with necessary fittings, 20 mm thick cement plaster (4:1) with neat cement finish to the internal surfaces and 15 mm thick cement plaster (4:1) to outside wall upto 200 mm below G.L. floor finished with 25 mm thick grey artificial stone over 100 mm thick RCC (1:1.5:3) bottom slab including supplying, fitting and fixing all necessary specials, fittings, S.W. tees, C.I. foot rest etc. including excavating earth in all sorts of soil, shoring, bailing and pumping out water as necessary, ramming, dressing the bed and refilling the sides of the tank with earth, removing spoils, filling up the chamber with clear water, removing foreign materials from the chamber and including constructing attached inspection pit as per approved drawing and connecting all necessary pipes, joints etc. with internal plaster work and artificial stone flooring to be done with admixture of water proofing compound @ 0.5% by weight of cement with all costs of labour and materials With Bazree (N.B. Variety)				
(a)	For 50 users	each	1	81420.00	81420
6	Construction of circular soak well 2.5 metre deep in all types of sandy soils with dry brick work upto 1.6 metre from the bottom having 150 mm intermediate cement brick work (1:4) band all round and cement brick work (1:4) upto 0.90 metre from top with 20 mm thick cement plastering (1:4) to inside face upto the depth of cement brick work, 15 mm thick cement plaster (1:4) on the outer face from top of the well upto GL and 6 mm thick cement plaster (1:4) on top of the RCC cover slab including filling bottom 1.00 metre of inside of the well with brick metal (50 mm to 63 mm size) including R.C.C. cover slab of 100 mm thick with cement concrete (1:1.5:3) with stone chips with necessary reinforcement and shuttering including one 560 mm dia. R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the cover slab with necessary fittings, making necessary arrangements for pipe connections, excavation of well including shoring, dewatering and removing the excess earth from the premises as per direction complete in all respect with all costs of labour and materials. With 250 mm thick dry brick work and 250 mm thick cement brick work (6:1) and 1.00 m inside dia	each	1	14531.00	14531
				<b>TOTAL (Rs.)</b>	<b>353350</b>
				<b>TOTAL (Rs. in Lacs)</b>	<b>3.53</b>

**Infrastructure development at Ayeshpur Farm, Nadia**  
**Schedule of Quantities for Tube well and Pump**

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
<b>Part A - Tubewell</b>					
A	Installation of 1 No 250 mm x 150 mm dia Tubewell along with providing, testing and commissioning of Submersible pumpset				
1	Labour for boring through any type of soil for sinking tube well of required dia. With top enlargement by rig boring system including hire charges and labour for supplying of suitable dia. Casting pipes upto full depth of tube well with necessary sockets, tools and plants, staging, force pumping set and making necessary arrangements for boring and also cost of withdrawing the casing pipes and lowering pipes, stainers, blind pipes etc. complete. (The casing pipe should have a minimum 50 mm gap in between the outside of the tube well pipe and the casing pipe).				
	a) For depth upto 200 meter for 150 dia. Tube well with top enlargement of 250 mm dia.				
	i) First 50 metre	Mtr.	25	951.00	23775
2	Supplying uPVC ribbed screenr of approved make with adapter conforming to I.S 12818 .				
	i) 150 mm dia.	Mtr.	10	1499.00	14990
3	Supplying, fitting & fixing heavy type bell mouth PVC reducing socket				
	i) 150 mm x 250mm	Each	1	1800.00	1800
	ii) 250mmx150mm Nipple	Each	1	1500.00	1500
4	Supplying, fitting & fixing PVCI cap at top				
	i) 250 mm	Each	1	789.00	789



Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
5	Supplying, jointing and lowering vertically uPVC threaded pipes with necessary sockets, special fittings and jointing as required including cost of all jointing materials, hire charges of tools and plants, cutting pipes to required sizes with threads as necessary and lowering the pipes within the borewell vertically as per direction of the Engineer-in-charge				
i)	150 mm nb Sch 80 and as per ASTM D1785	mtr	10	1200.00	12000
ii)	250 mm nb Sch 80 and as per ASTM D1785	mtr	15	3600.00	54000
6	Washing and developing tube well with air compressor pump and engine for 8 (eight) hours continuous pumping per day with necessary arrangements for testing the yeild in gallons per hour with "V" notch including hire and labour charges for all tools and plants and scaffolding as required complete in all respect.	Day	3	6712.00	20136
7	Labour for making arrangement for showing vertically test including the cost for hire charges of tools and plants, scaffolding labour etc. all complete.	L.S.	1	773.00	773
8	Collecting sample of water for physical bacteriological and chemical test from any depth at any time during execution of work including hire and labour charges for tools and plants and sterilising the equipments, paying all charges and fees, testing etc, complete in all respect as per direction and as per IS 10500 parameters.	L.S.	1	1130.00	1130

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
9	Packing the annular space between the outside of the tube well pipes & strainers and the bore with pea size washed gravel of approved quality having size from 2 mm to 5 mm or the size approved by the Engineer - in- charge including cost of materials labour and equipment complete.	Cu. M	10	1824.00	18240
10	Packing the annular space between the outside of the housing pipe & the bore with puddled clay balls of approved size as per direction of the Engineer - in- charge with cost of materials & labour complete.	Cu. M	10	308.00	3080
11	Providing & fixing bottom plug as required for 150 mm dia PVC pipe including cost of materials & labour with fixing in position complete for sealing the bottom of assembly.	Each	1	350.00	350
12	Supplying, fitting & fixing 250 mm M.S housing clamp of approved quality	Per Set	1	2621.00	2621
13	Providing 150 mm centre guide.	Per Set	1	145.00	145
14	Geophysical investigation of the aquifer by electro logging system with all tools & plants as necessary including supply of necessary report.	Each test	1	6544.00	6544
		<b>Sub Total for 1 no (Part A)</b>			<b>161873</b>
		<b>Sub Total for 5 nos (Part A)</b>			<b>809365</b>
<b>Part B : SUBMERSIBLE PUMPSET &amp; ACCESSORIES</b>					
B	Submersible Pumpset & Accessories				

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
1	Supplying, fitting, fixing and lowering inside the tubewell submersible pump having delivery outlet fitted in spring loaded non return valve capable of delivering required discharge and against a total head from all cases ( Duty conditions given below )directly coupled with submersible motor of reqd. HP to give the required discharge suitable for operation 340-400 volts plus minus 8%, 3 phase, 50 c/s AC supply. The materials of pump and motor shaft aluminium bronze thrust bearing plate. Noryl diffuser, with necessary accessories for submersible pumping set of approved make / model and tubewell top cover suitable for pump set (before procurement, manufacturer's test report / performance curve chart etc. to be submitted for approval) (KSB / Plugra)				
i)	Q = 40 m <sup>3</sup> /hr, H = 60-70 m (1W+1S)	Set	1	75000.00	75000
2	Supplying, fitting and fixing 80 mm dia GI bend having one end threaded and socketed other end flanged with special arrangements for fitting and fixing pressure gauge.	No.	1	551.33	551
3	Supply fitting and fixing 100 mm dia pressure gauge (0 to 7 kg / sq cm minimum) with controlling cock and brass "U" syphon.	No.	1	3000.00	3000
4	Supplying, fittings and fixing floor cum wall mounted electrical control panel cabinet of adequate size made out of MS sheet / angle with stove enamel paint comprising with suitable electrical accessories for the above mentioned submersible pumping set, such as L&T make automatic star-delta starter, LT/Minilec make main switch fuse, AE/Havells make 100 mm diameter and voltameter with selector switch including lamp (R-Y-B 03 nos. fuse and 1 no. Danger Board).	Set	1	20000.00	20000
5	Supplying, fitting and fixing electrical water level guard with two pole electrodes.	Set	1	8000.00	8000

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
6	Supplying, fitting and fixing 1.5 sq. mm single cable required for electrical water level guard with supply and installation of necessary PVC conduit pipe of approved make and suitable dia for below ground portion.	Mtrs.	10	100.00	1000
7	Supplying, fitting and fixing Finolex make flat water proof cable size 2 x 3 x 4.0 sqm for above submersible pump set with cable clamp complete.	Mtrs.	10	120.00	1200
8	Supplying of GI pipe of TATA make of 80 mm dia (medium quality) including necessary sockets for column pipe.				
	80 mm dia	Mtrs.	10	841	8410
9	CI sluice valve with flanged ends drilled to as per IS 1358/1962 and having all cost component as per IS 780/1971 solid forged bronze inside screw spindle having ultimate tensile strength not less than 4.72 MT / sq.cm. spindle nut valve and seat faces of hardware resisting manufactured from best quality gun metal, conforming to IS 780/1971 paint tested to 21 kg. (Hydraulic Pressure) sq.cm. valve opening to anticlockwise direction fitted and fixed complete.				
i)	80 mm dia	Nos.	1	3645	3645
10	Supplying, fitting and fixing CI non return valve with flanged ends drilled to as per IS 1358/1962 including necessary nuts and bolts, rubber insertion etc. complete (IS marked).				
i)	80 mm dia	Nos.	1	9803.00	9803
11	Supplying, fitting and fixing wrought iron flange of approved quality with washer and bolts as per standard joints complete in all respects.				
i)	80 mm dia	Pair	2	150.00	300

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
12	Supplying, fitting and fixing in position GI pipes TATA make for underground works with all necessary accessories, specials viz socket bend, tee, unions, cross, elbows, nipple, short pieces etc. including cost of all materials, jointing materials, making threads, cutting trenches up to 1.5 m below surface in all sorts of soils and refilling the same as directed with two coats of painting on GI pipes and specials with bituminous paint complete in all respects. (Payment will be made on the centre line measurements of the total pipe including specials, no separate payment will be made for accessories specials).				
i)	80 mm dia	Mtrs.	5	829	4145
13	Construction of brick masonry water tight chamber of required size for tubewell with 150 mm thick cement concrete bed with stonechips over a single layer brick flat soling, 250 mm thick cement brick work (1:6) 19 mm cement plaster (1:6) with neat cement finish both inside and outside precast openable RCC slab of required thickness on top of the chamber including necessary excavation, refilling, shuttering and reinforcement complete. Size 1200 x 1200 x 900 m	Nos.	1	15181.00	15181
			<b>Sub Total (Part B)</b>		<b>150235</b>
	<b>Part C : PUMPSET &amp; ACCESSORIES</b>				
C	Pumpset & Accessories				
1	Supplying, fitting, fixing pump having delivery outlet. HP to give the required discharge suitable for operation 340-400 volts plus minus 8%, 3 phase, 50 c/s AC supply. The materials of pump and motor shaft aluminium bronze thrust bearing plate. With necessary accessories for pumping set of approved make / model (before procurement, manufacturer's test report / performance curve chart etc. to be submitted for approval) (KSB / Pluga)				
	0.5 HP Pump	nos	3	10000.00	30000

Sl. No.	Description	Unit	Quantity	Rate	Amount (Rs.)
	2 HP Pump	nos	2	35000.00	70000
	5 HP Pump	nos	1	75000.00	75000
			<b>Sub Total (Part C)</b>		<b>175000</b>
	<b>Part D : PVC Pipes</b>				
1	Flexible PVC pipe				
	(a) 15 mm dia	meter	700	98	68600
	(b) 80 mm dia	meter	300	568	170400
			<b>Sub Total (Part D)</b>		<b>239000</b>
	<b>Grand Total of Sub Total (A + B + C + D) in Rs.</b>				<b>1373600</b>
	<b>Grand Total in Rs. Lacs</b>				<b>13.74</b>

**Development of Infrastructure at Ayeshpur, Nadia**  
**Schedule of Quantities for Electrical Works**

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
	<b>Sub Head : Internal Wiring</b>				
01.	Distn. wiring in 22/0.3 (1.5sqmm) single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (approved make) in 19mm bore, 3mm thick polythen pipe complete with all accessories embedded in wall to light / fan / call bell points with Piano key type switch (Anchor make) fixed on sheet metal (16SWG) switch board with bakelite / perspex (wall matching colour) top cover (3mm thick) flushed in wall incl. mending good damages to original finish.				
	2x22/0.3 (Ph. & N) and 1x22/0.3 as ECC				
01.1	Average run 6 mtr	Point	40	808.50	32340
01.2	Average run 8 mtr	Point	25	1000.13	25003
01.3	Average run 12 mtr	Point	2	1383.38	2767
02.	Distn. wiring in 22/0.3 (1.5sqmm) single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (approved make) in 19mm bore, 3mm thick polythen pipe complete with all accessories embedded in wall to 250V 5A 3pin plug point incl. S & F 250V 5A 3pin flush type plug socket & piano key type switch (Anchor make) incl. S & F earth continuity wire, fixed on sheet metal (16SWG) switch board with bakelite / perspex (wall matching colour) top cover (3mm thick) flushed in wall incl. mending good damages to original finish.				
	2x22/0.3 (Ph. & N) and 1x22/0.3 as ECC				
02.1	On Board	Point	9	78.75	709
02.2	Average run 3 mtr	Point	3	542.06	1626
02.3	Average run 6 mtr	Point	5	829.50	4148
02.4	Average run 7.5 mtr	Point	7	973.88	6817
03.	Supply & fixing 250V 5A piano key type switch (approved make) on existing sheet metal switch board having Bakelite / Perspex top cover by screws after making housing for switch by cutting Bakelite / Perspex cover & making necessary connections as required.	Each	30	31.50	945
04.	Supplying & fixing 250V 3 Pin 15A flush type plug socket with 15A Piano key type (Anchor make) switch on sheet metal box with bakelite top cover and earthing attachment incl. S & F sheet metal box of size 175mm x 100mm [16 SWG] with 3mm thick bakelite top cover	Each	4	369.97	1480

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
05.	Supply & fixing 250V 5A flush type plug socket (Anchor make), without switch & plug top on existing sheet metal switch board having Bakelite / Perspex top cover by screws after making housing for plug by cutting Bakelite / Perspex top cover & making necessary connections with PVC wire & earth continuity wire.	Each	30	47.25	1418
06.	Supplying and fixing polythene pipe complete with fittings as necy. under ceiling / beam, bound with 22 SWG GI binding wire incl. supplying and drawing 1 X 18 SWG GI Wire as fish wire inside the pipes and fittings and providing 50 mm dia disc of MS sheet (20 SWG) having colour paint at one face fastnded at the load point end of the polythene pipe with fish wire (synchronizing with roof / beam casting work of building construction)				
06.1	13mm dia 3mm thick Polythene Pipe	RM	20	28.88	578
06.2	19mm dia 3mm thick Polythene Pipe	RM	10	36.75	368
06.3	25mm dia 3mm thick Polythene Pipe	RM	25	43.31	1083
06.4	25mm dia 3mm thick Polythene Pipe	RM	10	51.19	512
07.	Supplying & fixing CRC sheet metal (16 SWG) JB-cum-Switch board of the following sizes complete with three no. suitable size copper bar with holes (for phase, N & E) ffixed on Bakelite / hard rubber insulator over the MS welded chairs incl. Bakelite / Perspex / colour Perspex (wall matching colour) top cover 3mm thick flushed in wall for housing the board after cutting the wall by electric operated cutting machine incl. making earthing attachment, painting & mending good damages to building works.				
07.1	150mm x 100mm x 65mm	Each	2	280.88	562
07.2	175mm x 100mm x 65mm	Each	2	296.63	593
07.3	200mm x 150mm x 65mm	Each	2	371.44	743
07.4	250mm x 200mm x 65mm	Each	2	430.50	861
07.5	300mm x 200mm x 65mm	Each	1	472.50	473
07.6	400mm x 250mm x 65mm	Each	1	637.88	638
08.	Supplying & Fixing sheet metal inspection box (16 SWG) of the following sixes flushed in wall by housing the same after cutting brick wall by Electric operated cutting machine incl. marking earthing attachment, painting and mending good damages of building works.				
08.1	150 mm X 100 mm X 65 mm	Each	8	189.00	1512
08.2	175 mm X 100 mm X 65 mm	Each	2	204.75	410
08.3	200mm x 150mm x 65mm	Each	2	278.25	557
08.4	250mm x 200mm x 65mm	Each	2	338.63	677



Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
09.	Supplying and Drawing 1.1 KV single core stranded "FR" PVC insulated & unsheathed single core stranded copper wire (approved make) of the following sizes in the prelaid polythene pipe and by the prelaid GI fish wire and making necy. Connection as required.				
09.1	3 X 22/0.3 (1.5 sqmm)	RM	50	63.00	3150
09.2	2 X 36/0.3 (2.5 sqmm)	RM	20	65.63	1313
09.3	3 X 36/0.3 (2.5 sqmm)	RM	200	98.44	19688
09.4	4 X 84/0.3 (6 sqmm)	RM	20	288.75	5775
09.5	2 X 56/0.3 (4 sqmm) + 1 X 36/0.3 (2.5 sqmm) as ECC	RM	30	127.31	3819
09.6	2 X 84/0.3 (6 sqmm) + 1 X 36/0.3 (2.5 sqmm) as ECC	RM	15	178.50	2678
	<b>Sub Head : Installation of Fixtures etc.</b>				
10.	Supplying & Fixing 228 mm long x 15.8 mm dia heavy gauge swan-neck brass bracket with bakelite holder	Each	10	131.83	1318
11.	Fixing only lamp.	Each	10	7.09	71
12.	Fixing only single / twin florescent light fitting suspended 25 cm bellow the ceiling with 2 No. 20 mm dia EI conduit (14 SWG) supports fixed with "L" type MS clamp whose one side inserted within the ceiling reinforcement and other side connected with the suitable size of bolts and nuts incl. S&F EI conduit "L" type (125mm x 125mm) 6mm thick and 25mm with MS clamps and connecting the length of PVC insulated wire and mending good damages to original finish and painting etc.				
	2x24/0.20 mm flexible copper wire of 1.10 mt. length	Each	35	221.13	7740
13.	Fixing only ceiling fan complete with blades, canopy, fork, rubberbush etc. incl. S&F connecting wire for down rod upto 30 cm incl.painting the rod with approved paint and making necessaryconnection as required by				
13.1	2x1.5 sqmm flexible copper wire	Each	8	70.88	567
14.	Painting upto 8 letters of the engraved number with approved black paint / red paint as required	Each	60	11.34	680
15.	Fixing exhaust fan after making hole in wall and making gooddamages and smooth cement finish etc. as practicable as possibleand providing necy. length of PVC insulated wire and makingconnection for exhaust of dia				
	30 cm	Each	2	304.76	610

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
	<b>Sub Head : Distribution Board, Control Switch etc.</b>				
16.	Supplying & fixing Iron Clad Main Switches on flat iron frame on wall				
16.1	30/32 A - 500V TPN with fuse on L&N (BPC)	Each	6	2180.12	13081
16.2	60/63 A - 500V TPN with fuse on L&N (BPC)	Each	3	3747.87	11244
16.3	100/125 A - 500V TPN with fuse on L&N (BPC)	Each	1	6938.66	6939
17.	Distribution Boards				
17.1	Supplying and fixing 250V, 6-10A per way, SPN MCB DB with SS enclosure double door with IP-42/43 protection with DP Isolators as incomer and SP MCBs ('C' Curve, 10kA) as outgoing, concealed in wall after cutting the wall & mending good the damages to original finish incl. interconnection with suitable size of copper wire and neutral link & provision for earthing attachment.				
	Seimens				
a)	2+4 way Enclosure (8GBO204), 25A DP Isolator, 4 no. SP MCB	Each	1	2425.34	2425
b)	2+6 way Enclosure (8GBO206), 40A DP Isolator, 6 no. SP MCB	Each	1	3122.75	3123
c)	2+12 way Enclosure (8GB0212), 63A DP Isolator, 12 no. SP MCB	Each	1	4893.21	4893
18	Supplying and fixing 415V,16-32A per way, TPN MCB DB with SS enclosure double-door with IP-42/43 protection with Four Pole Isolators as incomer and SP MCBs ('C' Curve, 10kA) as outgoing, concealed in wall after cutting the wall & mending good the damages to original finish incl. interconnection with suitable size of copper wire and neutral link & provision for earthing attachment				
	Seimens				
	4 way Enclosure (8GB040HRC), 63A FP Isolator, 12 no. SP MCB	Each	1	6323.47	6323
19.	Miscellaneous				
19.1	Supply & Fixing EI danger board on wall				
	20 cm x 30 cm (8"x12")	Each	5	117.65	588
19.2	Supplying & fixing sheet metal (16 SWG) Iron Clad busbar chambers on angle iron frame on wall, including earthing attachment & painting as required - ( As per drawing no. 470 of PWD Specification Book - May 1991 )				
	4 bars, 500V, 200A	Per Mtr of Complete Chamber	1.5	3752.12	5628

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
	<b><u>Sub Head : Earthing &amp; L.A. etc.</u></b>				
20.	Earthing Installation – with Pipe Electrode :				
	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts.long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level & restoring surface duly rammed as below				
	For Soft Soil				
	By TATA-Medium GI pipe	Set	7	1876.14	13133
21.	Extra for providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below Ground level) complete with cemented brick work(1:6)of 25 cm width duly plastered with cement mortar (inside) Clinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos.12 mm dia holes on the GI pipe	Item	7	1619.10	11334
22.	Extra for treatment of soil by using salt & charcoal or coke for pipe electrode (for soft soil).	Item	7	704.34	4930
23.	Earth Busbar				
	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required	Mtr.	70	181.44	12701
24.	Earth Continuity Conductor				
	Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages				
	No. 6 SWG	Mtr.	30	17.64	529
25.	Schedule of rates for installation of Lightning Conductor				
	S & F Lightning conductor Air-terminals made of 15 mm dia 1500mm long GI pipe (ISI Medium) having five prongs of 4 SWG GI (Hot Dip) wire at top with 85 mm dia 6 mm thick GI base plate at bottom incl. necessary holes etc. duly grouted on the parapet etc.in CC mortar (4:2:1)	Each	3	506.42	1519

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
26.	Hiring charges for scaffolding arrangement including dismantling at the end of work and carriage, for LC installation, per storey of building per vertical run	storey/ vertical run	2	192.47	385
27.	Hiring charges for scaffolding arrangement including dismantling at the end of work and carriage, for LC installation of overhead reservoir (vertical run)	Mtr.	3	76.44	229
28.	Supply & fixing GI (Hot Dip) strips 20 mm x 3 mm thick for horizontal run on the Parapet / Roof / Wall with GI Saddles 1100mm apart incl. mending good the damages to building works	Mtr.	40	70.98	2839
29.	Supply & fixing of GI (Hot Dip) strips 20 mm x 3 mm thick for vertical run on wall with GI saddles spaced not exceeding 1000mm apart incl. mending good damages to building work	Mtr.	10	87.36	874
30.	Making soldered joints between conductor / conductor & airterminals by 7/10 stranded GI (Hot Dip) wire incl. supply of jointing materials & painting with 2 (two) coats of Bituminous paint	Mtr.	5	77.81	389
31.	Making soldered joints between conductor / down pipes / other metallic objects by 7/10 stranded GI (Hot Dip) wire incl. supply of jointing materials & painting with 2 (two) coats of Bituminous paint	Mtr.	5	116.03	580
32.	Supply & Fixing of Testing Joints by 20 mm x 3 mm thick GI (HotDip) strip 125 mm long grouted on wall having clearance of 6 mm from wall for making connection with thimbles at the end of 7/10 SWG GI (Hot Dip) stranded Wire and 4 SWG GI (HotDip) wire of vertical conductor and conductor from earth electrode complete with S & F thimbles, GI bolts, nuts, check-nuts, spring washers etc. as required.	Each	7	203.39	1424
	<b>Sub Head : Cable Laying &amp; Termination etc.</b>				
33.	Laying on Wall / surface with Saddles / clamps				
33.1	Laying of cable from 3/3½ core 35 sqmm to 50 sqmm onwall / surface incl. S & F MS saddles with earthing attachment in 2x 10 SWG GI (Hot Dip) Wire, making holes etc. as necy., mending good damages and painting	RM	10	63.00	630
33.2	Laying of cable from 3/3½ core 35 sqmm to 50 sqmm onwall / surface incl. S & F MS saddles with earthing attachment in 2x 10 SWG GI (Hot Dip) Wire, making holes etc. as necy., mending good damages and painting	RM	10	83.48	835
34.	Laying through RCC / Hume / GI Pipe				

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
34.1	Laying only Cable upto 50 sqmm through existing RCC / Hume / GI Pipe / open masonry trench for single, 2, 3, 3½ & 4 core	RM	30	33.08	992
34.2	Laying only Cable above 50 sqmm but not exceeding 400 sqmm. through existing RCC / Hume / GI Pipe / open masonry trench for single, 2, 3, 3½ & 4 core	RM	5	47.25	236
35.	Laying through Underground Trench				
35.1	Laying of one no. cable upto 35 sqmm in underground trench 460mm wide x 760 mm average depth, with brick protection on the top of the cable with 8 (eight) Nos. bricks per metre, including filling the space between the brick & cable and also the trench with shifted soil, leveling up and restoring surface duly rammed	RM	1700	143.33	243653
35.2	Laying of one no. cable above 35 sqmm and upto 185 sqmm in underground trench 460mm wide x 760 mm average depth, with brick protection on the top of the cable with 8 (eight) Nos. bricks per metre, including filling the space between the brick & cable and also the trench with shifted soil, leveling up and restoring surface duly rammed	RM	5	151.20	756
36.	Laying through Underground Trench				
	Laying of two cables upto 35 sqmm in an underground trench in single tier formation (horizontal), the trench size : 680 mm x 760mm average depth, with brick protection on the top of each cable 8 (eight) Nos. bricks per Mtr. and 4 (four) Nos. bricks per Mtr. as separator between the bricks and cables and also trench to be filled up with shifted soil, levelling up and restoring surface duly rammed	RM	4800	283.50	1360800
37.	Laying through Underground Trench				
	Laying of three cables upto 35 sqmm in an underground trench in single tier formation (horizontal) the trench size : 915 mm x 760mm average depth with brick protection on the top of each cable with 8 nos. bricks per Mtr. and 4 nos. bricks per mtr. as separator between the cables including filling the space between the bricks and cables and also the trench with shifted soil, levelling up and restoring surface duly rammed	RM	10	425.25	4253
38.	Compression Glands				
	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE / PVC armoured cables as below :				
38.1	For 2 core				

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
a )	upto 4 sqmm	Each	80	61.43	4914
b )	upto 6 sqmm	Each	16	108.68	1739
38.2	For 3 core				
a )	upto 4 sqmm	Each	6	108.68	652
b )	upto 25 sqmm	Each	2	108.68	217
38.3	For 3 <sup>1</sup> / <sub>2</sub> core				
a )	upto 25 sqmm	Each	14	166.95	2337
b )	upto 185 sqmm	Each	4	488.25	1953
39.	Finishing cable ends				
	Finishing the end of following XLPE / PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials :				
39.1	2 core 4 sqmm cable	Set	80	33.08	2646
39.2	2 core 6 sqmm cable	Set	16	34.65	554
39.3	4 core 4 sqmm cable	Set	6	63.00	378
39.4	4 core 25 sqmm cable	Set	2	140.18	280
39.5	3 <sup>1</sup> / <sub>2</sub> core 25 sqmm cable	Set	14	130.73	1830
39.6	3 <sup>1</sup> / <sub>2</sub> core 185 sqmm cable	Set	4	735.53	2942
	Set comprises of all leads of the cable				
40.	Supplying & fixing medium gauge GI Pipe (TATA-Medium orSI-Medium) Protection with necessary fittings and jointing metarials as required				
40.1	50 mm dia	Per metre	15	615.83	9237
40.2	80 mm dia	Per metre	30	1047.38	31421
40.3	100 mm dia	Per metre	45	1667.93	75057
	For protection purpose, TATA-M pipes can only be used in special cases subject to approval of the concerned Superintending Engineer				
	<b>Sub Head : Street Light etc.</b>				
41.	Erection of Single Steel tubular pole as given below with/without sole plate & Cap etc. in CC foundation (Proportion and dimension indicated below) , having 600X600X150 mm thick CC(4:2:1) base block below sole plate/pole with hard jhama metal including CC(6:3:1) muffing 0.30 mts. dia and 0.30 mts. above ground level including 3mm thick neat cemented finish and GI earth bolt after making drilled holes etc.on pole & carriage of pole upto 1.6 km from Store to work-site including filling up the excavated earth pit with shifted soil and ramming properly				
41.1	Upto 9.mtr. Size 0.6X0.6X1.70 mts	Set	80	2925.20	234016

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
41.2	Extra on items above, for providing CC (6:3:1) base block (around the pole) dimension 0.60X0.60X0.76 mt. above ground level, neatly cemented finish ( 3mm thick),at the base pole (in Lieu of CC muffing) suitable for alkathene / polythene pipe enret as directed for street light wiring , incl. S & F 25cmX25cmX10cm CL loop box,4mm th.& incl drilled hole in pole.	Item	80	2390.12	191209
42.	Painting of Steel Tubular Pole Of lenghts and no. of coats of paint,as given below with ready mixed paint/primer of approved make,and brand incl. prparation of surface by sand paper/emery paper, cleaning etc. for receiving fresh coat of paint.				
	Upto 9.0 mtr. long pole				
42.1	1st coat of aluminium paint over 1 coat of RO priming	Per Pole	80	210.21	16817
42.2	2nd coat of aluminium paint over 1st coat	Per Pole	80	83.27	6661
43.	Distribution wiring for street light on pole with 2X1/1.40 PVC insulated and sheathed (singlr core) in 15mm dia GI pipe (ISI Medium), without controle switch incl. S & F 30.48cm outdoor type dispersive light fitting with GI Pipe bracket and providing 25X6 mm Galv MS flat clamps with bolts, nuts etc.and incl S & F Ornamental tie with Galv. MS flat of approved design and painting (Av. run 3 m)	Point	80	928.20	74256
44.	Fixing outdoor type fluorescent/SV/MV light fitting on pole including S&F 40mm dia. X1.68 mts. Long GI Pipe (ISI-Medium) bracket with 40mmX10mm thick, MS clamp etc.and providing wiring with 2X1/1.40 PVC insulated & sheathed wire(Single core) partly in GI conduit & partly through above bracket from OH line to the fitting, without control switch, incl.making connection and painting	Set	80	1927.38	154190
45.	Supply of street light luminarie with pressure die-cast aluminium housing, POT optics reflector & heat resistant toughened flat glass cover (IP-65), lamp etc. complete. [ Similar type Philips make, Cat no. : SGP 325-I x HPI TP 250W FG ]	Set	80	8543.00	683440
46.	Supply, fabrication & delivery of street light tubular pole of 9 metre (6.5" x 5.5" x 4.5" & weight of pole 147.5 kg) long ( SP-3-1 ) with baseplate for street light ( IS-1161-SP-3-1 )base plate 300 mm x 300 mm x 8 mm with single arm ) 410 - SP - 28 ).	Set	80	8180.00	654400
	<b><u>Sub Head : Supply of Fixtures etc.</u></b>				

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
47.	Supply of heavy duty 230mm. sweep, AC 230V, exhaust fan along with ventilating louvre. [ Make : EPC ]	Each	2	1894.00	3788
48.	Supply & delivery of 1400mm. sweep, 220V, 50Hz, ceiling fans of PWD approved make with all necessary accessories including the cost of connection complete etc. [ Make : Orient / Crompton Greaves / Usha ]	Each	8	1837.00	14696
49.	Supply of wall / ceiling mounted flourescent light fittings for 1 x 36W, 4 ft flourescent light with all necessary accessories oncluding cost of connection etc. [ Make : Philips, Cat no. : TMS 021 x 1 x TL D36W ]	Each	35	806.00	28210
50.	Supplying and fixing of 250V, AC/DC superior type call bell (Anchor 8320) on HW board & including supply & fixing HW board.	Each	1	180.02	180
	<b>Sub Head : Miscellaneous Items</b>				
51.	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	Per metre	50	15.50	775
52.	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.	Per metre	75	22.00	1650
53.	Supplying and fixing following piano type switch / socket on the existing switch box/ cover including connections etc. as required.				
53.1	Telephone socket outlet	Each	5	48.50	243
53.2	TV antenna socket outlet	Each	7	40.00	280
54.	Supplying and fixing stepped type electronic fan regulator on the existing switch box including connections etc. as required.	Each	5	322.00	1610
55.	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box / wooden block including connection etc as required.	Each	180	34.00	6120
56.	Providing and fixing following capacity TP&N disconnector fuse switch unit in sheet steel enclosure with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.				
	160 Amp TP&N	Each	1	5915.00	5915



Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
57.	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	4	5.50	22
58.	Supplying and fixing 6 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 etc. complete with connections, testing and commissioning etc. as required.				
58.1	Single pole	Each	6	141.00	846
58.2	Double pole	Each	3	379.00	1137
58.3	Triple pole	Each	2	562.00	1124
59.	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB etc. complete with connections, testing and commissioning etc. as required.				
	40 Amps	Each	1	245.00	245
60.	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Each	20	255.00	5100
61.	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	4	572.00	2288
62.	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	3	776.00	2328
63.	Supply, installation, testing and commissioning of Feeder Pillar box with 3 nos. 63A, rewirable type fuses as incomer & 8 nos. (16-32)A rewirable type fuses as outgoing. The FPB shall be fabricated with 14 SWG M.S. sheet and suitable size frame work.				
	The panel shall be self standing on base channel frame work and mounted on pedestal. The FPB shall be totally enclosed, dust and vermin proof ( IP : 65 protection ). 2 coats of final paint shall be made over 2 coats of primer ( colour of paint & drawing should be approved by engineer in charge before fabrication ).				
	The cable termination shall be from bottom . The detachable gland plates of adequate thickness shall be provided for cable terminations. Feeder nameplates shall be provided.				
	The FPB shall have suitable size busbars and terminals as per requirement.	Set	3	6500.00	19500

Sl. No.	Description of Items	Unit	Quantity	Rate	Amount (Rs.)
64.	Supply and fixing of 10 pair 16 SWG telephone junction box, "Krone" make on wall / furniture / partiion with hinged cover and screwed type tag strips, having locking arrangements, duly painted with 2 coats of red oxide paint & 2 coats of enamel paint, complete with chase cutting, mending good, painting etc. as required.	Set	1	550.00	550
<b>Sub Head : Supply of L.T. Cable, MCB etc.</b>					
65.	Supply of LT POWER CABLES : - 1100 V Grade , Copper Conductor (XLPE), Armoured, PVC insulated outer Sheathed Cables Confirming to IS :1554 LT Cables.				
65.1	2C X 4 sq.mm.	Metre	4000	94.00	376000
65.2	2C X 6 sq.mm.	Metre	1200	110.00	132000
65.3	3½C X 25 sq.mm.	Metre	1500	222.00	333000
65.4	3½C X 185 sq.mm.	Metre	20	1,093.00	21860
65.5	4C X 4 sq.mm.	Metre	2800	125.00	350000
65.6	4C X 6 sq.mm.	Metre	1500	141.00	211500
65.7	4C X 10 sq.mm.	Metre	1000	165.00	165000
66.	Supplying and fixing 6 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 etc. complete with connections, testing and commissioning etc. as required.				
	Four pole	Each	1	1164.00	1164
67.	Supplying and fixing 40 amps to 63 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB etc. complete with connections, testing and commissioning etc. as required.				
67.1	Double pole	Each	1	869.00	869
67.2	Triple pole	Each	1	1346.00	1346
67.3	Four pole	Each	1	1729.00	1729
<b>Total for Electrical Works</b>			<b>Total (Rs.)</b>		<b>5693711</b>
			<b>Total (in Rs. Lacs)</b>		<b>56.94</b>