

PRICE BID
FOR
CIVIL & ELECTRICAL WORK
OF
PROPOSED JALPAIGURI RSETI BUILDING
CENTRAL BANK OF INDIA

Central Bank of India
(A Govt. of India Undertaking)
REGIONAL OFFICE, JALPAIGURI
4 NO GUMTI, NILU BHAWAN
JALPAIGURI-735101
DIST- JALPAIGURI

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Abstract of Central Bank of India, RSETI Jalpaiguri				
Serial no	Section	Description	Amount(in Rs)	Amount in words
I	SCH-CIVIL	Civil		
II	SCH-SAN	Sanitary		
III	SCH-ELE	Electrical work		
		TOTAL		

Note:

%100 sqm = 100 sqm

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PART-A(i) SCHEDULE OF QUANTITY FOR CIVIL WORK BUILDING (GROUND FLOOR)

SL.NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	Earth Work in excavation of foundation trenches or drains , in all sorts of soil (including mixed soil but excluding lateritem or sandstone) including removing , speading 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 requird complete .				
1.1	Depth of excavation not exceeding 1.500 mm.	%Cum	410.00		
1.2	(b) Depth of excavation for additional depth beyond 1,500 mm. and upto 3,000 mm. but not requiring shoring.	%Cum	120.00		
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)				
	With earth obtained from excavation of foundation	%Cum	436.00		
3	(A)Filling in foundation or plinth by Silver Sand in layers not exceeding 150mm as directed and consolidating the same by thorough saturation with water ramming complete including the cost of supply of sand. (payment to be made on measurment of finish quantity)	%Cum	242.00		
4	Supplying and laying polythene Sheet (150gm /msq.m) over damp proof course or below flooring or roof terracing or in foundation or in fondation trenches.	Sq.M	781.000		
5	Hire and labour charges for shuttering with centering 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 and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)				
	(When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4 m and extra for works beyond the initial 4 m ht. shall be allowed under 12 (e) for every 4 m or part thereof)				
5.1	(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	Sq.m	90.00		
5.2	(c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work				
	Ground floor	Sq.m	1105.00		
5.3	(f) 25 mm to 30 mm shuttering without staging in foundation				
	Ground floor	Sq.m	363.00		
6	Cement concrete with 30 mm down graded shingles excluding shuttering. N.B. Variety (1:3:6)	Cu.m	62.00		
7	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.(b) River bazree				
	Ground floor	Cu.m	52.717		

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8	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. (ii) River bazree				
	Ground floor	Cu.m	245		
9	Controlled Cement concrete with well graded stone chips (20 mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS : 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 and job mix formula. In ground floor and foundation.[using concrete mixture] M 25 Grade (ii) N.B. Variety (Stone Metal)				
	Ground floor	Cu.m	0.00		
10	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc 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 intersection, complete as per drawing and direction.				
	For works in foundation, basement and upto roof of ground floor/upto 4 m (Tor steel/Mild Steel)				
	(i) Tor steel/Mild Steel SAIL/TATA/RINL				
	Ground floor	MT	28.500		
11	40 mm. thick damp proof course with cement concrete (1:1.5:3) (with graded stone chips 20 mm nominal size) with water proofing compound of approved brand @ 0.2% weight of cement including cost of materials over two coats of non toxic acrylic polymer modified cementitious waterproofing slurry coat complete [cost of water proofing compound and non toxic paint to be paid seperately) for underground water retaining structures. [water proofing as per item no 9 and non toxic paint as per item no. 8 (b) of subhead C of Section 'C']	Sq. M	18.000		
12	Extra rate for using water proofing and plasticising admixture @ 0.2% by weight of cement (or at manufacturer's specified rate) for concrete of various grades.	kg	5.00		
13	Brick work with 1st class bricks in cement mortar (1:6)				
	(a) In foundation and plinth	Cu.m	31.00		
14	125 mm thic brick work with 1st class bricks in cement mortar (1:4).				
	Ground floor.	Sq.M	685.00		
15	Extra for using approved H.B netting in every third layer in 16 & 17 above in any floor	Sq.M	685.00		

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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).[Excluding cost of chipping over concrete surface]				
	(i) With 1:6 cement mortar				
16.1	Ground floor (20 mm thick plaster)	Sq.M	161.00		
16.2	Ground floor (15 mm thick plaster)	Sq.M	141.00		
	(ii) With 1:4 cement mortar				
16.3	Ground floor(10 mm thick celing plaster)	Sq.M	126.00		
17	Neat cement punning about 1.5mm thick in wall,dado>window sill,floor etc. NOTE:Cement 0.152 cu.m per100 sq.m.	Sq.M	61.00		
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 exluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be correted upto three decimals).				
	Sal : Local (Ground floor)	Cu.M	0.379		
19	Supplying, fitting and fixing M.S. clamps 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. (Cost of concrete will be paid separately)				
	40mm X 6mm, 125mm Length	Each	138.00		
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) Ground Floor. 35 mm thick shutters (single leaf)	Sq.M.	26.00		
21	Supplying fitting, fixing decorative lamination conforming to IS: 2046 : 1995 as per approved make, brand, finish and thickness with fitting, fixing the same on Particle/MDF / Ply Boards with recommended / approved adhesive with proper clipping the sides for better attachment as per direction of Engineer-in charge.The rate includes the cost of labour, adhesive and all incidental charges thereof. In ground floor				
	Glossy/Matt/Suede excluding surface texture or metallic lustre				
	.(ii) Thickness of laminate 1 mm	Sq.M.	51.00		
22	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screw.				
22.1	(iv) 150mm long x 10mm dia. bolt.	Each	24.00		
22.2	(x) 300mm long x 12mm dia. bolt.	Each	22.00		

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23	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark.(Add Extra 30% for Oxidised Fittings)				
23.1	(iii) 75mm. X 40mm. X 1.12mm.	Each	48.00		
23.2	(vii) 100mm. X 58mm. X 1.90mm. for Oxidised Fittings)	Each	44.00		
24	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.				
	With continuous plate base (Hexagonal / Round rod)				
24.1	(ii) 100 mm grip x 10 mm dia rod.	Each	24.00		
24.2	(vi) 150 mm grip x 10 mm dia rod.	Each	22.00		
25	(a) Supplying 'Godrej' mortice lock chromium plated with latch and keys 4 levers, including fitting and fixing complete.				
	Ground floor	Each	11.00		
26	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. In ground floor.(i) 32 mm thick				
	Ground floor	Sq.m	19.00		
27	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria..				
	(ii) 66mm x 70mm	Mtr.	60.00		
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.				
	(Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% for each addl. Floor above 4th floor)				
	Grill weighing above 16 Kg./sq.mtr and above				
	Ground floor	Qntl	8.00		
29	Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS 1038-1975 and manufactured from rolled steel sections conforming to IS 7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete (1:2:4) with stone chips 20 mm down cutting holes and mending good damages to match with existing surface complete in all respect excluding glazing.				
	(Add extra @ 1.2 % for each additional floors upto 4th floor and @ 1.5% for each addl. Floor above 4th floor.)				

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	b) Openable steel windows as per IS sizes with side hung shutters and horizontal glazing bars. [The extra rate admissible for the openable portion only]	Sq. M.	50.00		
30	(iv) Two point nose steel handle including fitting and fixing.	Each	42.00		
31	(vi) steel peg stay 300 mm long including fitting and fixing.	Each	42.00		
32	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. (In all floors for internal wall & upto 6 m height for external wall)				
	(ii) 4 mm thick	Sq.M	48.00		
33	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement. (Add extra @1.5% for each addl. floor upto 4th floor and @1.75% for each additional floor above 4th floor for item No.5 and 6 of subhead A).(iii) 35 mm. thic				
	Ground floor	Sq. M	510.00		
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) Floor				
	With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m.				
	(a) Area of each tile upto 0.09 Sq.m				
	(i) Coloured decorative				
	Ground Floor	Sq. M	36.00		
35	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete.				
35.1	(ii) 110 mm. Dia.	Metre	40.00		
	c) Bend 87.5 degree				
35.2	(ii) 110 mm. Dia.	Nos	10.00		
36	Colour washing with any shade with Stainers, as required including cleaning and smoothening surface thoroughly :(ii) External surface (Ground floor)				

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	(b) Two coats (on new works only).(i) Other than yellow, pink.	%Sq.M	354.00		
37	Colour washing with any shade with Stainers, as required including cleaning and smoothening surface thoroughly : (i) Internal surface (All floors)				
	(b) Two coats (on new works only).(i) Other than yellow, pink.	%Sq.M	2117.00		
38	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	Sq.M	50.00		
39	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	Sq.M	34.00		
40	A) 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 :				
	On timber or plastered surface :				
	With super gloss (hi-gloss) -				
	Two coats (with any shade except white)	Sq.M	34.00		
	On steel or other metal surface :				
	With super gloss (hi-gloss) -				
	Two coats (with any shade except white)	Sq.M	50.00		

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PART-A(ii) SCHEDULE OF QUANTITY FOR SANITARY WORK BUILDING (GROUND FLOOR)

SL.NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	Supplying, fitting and fixing Shallow water closet Indian pattern (I.P.W.C.) of approved make in white vitreous chinaware in position (excluding cost of concrete for fixing).				
	(i) 580 mm long	Each	4.00		
2	Supplying, fitting and fixing 10 litre P.V.C. 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	8.00		
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.				
	(ii) Plastic (hallow type) white	Each	8.00		
4	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc.				
	b) With 'S' trap	Each	4.00		
5	Supplying, fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete.				
	i) Polythene Flush Pipe	Each	8.00		
6	Wash basin vitreous china of approved make (without fittings) supplied, fitted and fixed in position on 75mm X 75 mm X 75 mm wood blocks and C.I. brackets including two coats of painting of C.I. brackets.				
	(i) 635 mm X 395mm X 420 mm	Each	8.00		
7	Supplying, fitting and fixing pillar cock of approved make.				
	a) (i) CP Pillar Cock - 15 mm. (Equivalent to Code No. 507 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	10.00		
8	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. (ii) 600 mm X 450 mm	Each	8.00		
9	Supplying, fitting and fixing soap holder. PTMT	Each	8.00		
10	Supplying, fitting and fixing toilet paper holder of approved make with wooden spindle as necessary.				
	Roll type size 250 mm X 125 mm	Each	8.00		
11	Supplying, fitting and fixing bib cock or stop cock.				
	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).	Each	12.00		
12	Supplying, fitting and fixing complete Bottle waste trap (Heavy Quality)				
	Chromium plated Bottle trap 32 mm with 190 mm long connecting pipe and wall flange (Equivalent to Code No. 545 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	8.00		
13	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia.				
	600 mm long	Each	16.00		
14	Supplying, fitting and fixing bib cock or stop cock.				

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	(a) (i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	12.00		
15	Supplying, fitting and fixing pillar cock of approved make.				
	f (ii) CP 2-way bib Cock - 15 mm, supplied, fitted and fixed. (Code No.5041 & Model - FLORENTINE of JAQUAR or similar brand).	Each	4.00		
16	Supplying, fitting and fixing towel rail with two brackets.(a) C.P. over brass				
	(ii) 25 mm dia. and 600 mm long	Each	8.00		
17	Supplying, fitting and fixing shower of approved brand and make.				
	(f) Hand Shower(Health Faucet) with 1mtr Flexible Tube with Wall Hook(Equivalent to Code No.573 & Model - ALLIED of Jaquar or similar	Each	4.00		
18	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.				
	(ii) 470 mm X 280 mm X 340 mm	Each	2.00		
19	Supplying, fitting and fixing 18 mm thick marble partition slab with chawk doongri marbel square cut, both sides polished with two front corners rounded and edges polished.	sq. m.	1.00		
20	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTMD - 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, longscrow, 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,joining materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately)				
	(a) For Exposed Work PVC Pipes				
20.1	50 mm	metre	8.00		
	(b) For Concealed Work (Dia)				
20.2	20 mm	metre	50.00		
20.3	25 mm	metre	50.00		
21	Supply of PVC pipes & fittings (medium duty) conforming to ASTMD -1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I).				
	50 mm dia.	metre	50.00		
22	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (A) (i) Single Socketed 3 Meter Length				
22.1	110 mm	metre	50.00		
22.2	160 mm	metre	50.00		
22.3	Door Tee	Each	10.00		
22.4	Door tee 110 mm (LH) & (RH)	Each	10.00		

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22.5	Door Y 110 mm (LH) &(RH)	Each	10.00		
22.6	Door Bend (T.S.)110 mm	Each	10.00		
22.7	Vent cowl 110 mm	Each	4.00		
22.8	Bend 45° 110 mm	Each	10.00		
22.9	Bend 87.5° 110 mm	Each	10.00		
22.10	Bend 87.5° 160 mm	Each	10.00		
22.11	Door bend (LH & RH) 110mm	Each	10.00		
22.12	Nahani Trap 90 mm	Each	18.00		
22.13	Round Jali 75mm	Each	18.00		
23	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials.(A)Above ground				
	(B) Under ground				
23.1	(ii) 110 mm	Metre	50.00		
23.2	(iii) 160 mm	Metre	50.00		
24	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer				
	(d) 2000 litre capacity	Each	2.00		
25	Labour for hoisting plastic water storage tank. (a) up to 1st story from GL=154.00 (b) Extra for each additionalstory=72				
	(ii) Above 1500 litre upto 5000 litre capacity.	Each	4.00		
26	Labour for punching hole in plastic water storage tank upto 50 mm dia.	Each	4.00		
27	Constructing Inspection pit of inside measurement 600mm X 600mm X upto 600mm (depth) with 250 mm thick 1st. 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 out-side walls upto G.L. 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 surfaces, 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 sides 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 Varity) SAIL/TATA/RINL	Each	12.00		

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28	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. R.C.C. manhole cover(heavy type)of approved make supplied, fitted and fixed in the 100mm thick R.C.C (1:1.5:3) top slab with necessary fittings, 20mm 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 R.C.C(1:1.5:3) bottom slab including supplying, fitting and fixing all necessary specials, fittings, S.W. tees, C.I. foot rest etc. including excavation earth in all sorts of soil, shoring, bailing out and pumping out water as necessary, ramming, dressing the bed and refilling the sides of the tanks 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 is to be done with admixture of water proofing compound @ 0.5% by weight of cement with all costs of labour and materials.				
28.1	For 30 users With Bazree(N.B Varity) SAIL/TATA/RINL	Each	1.00		
28.2	For 50 users With Bazree(N.B Varity) SAIL/TATA/RINL	Each	1.00		
29	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 20mm thick cement plastering (1:4) to inside face upto the depth of cement brick work, 15mm thick cement plaster (1:4) on outer face from top of the well upto G.L. and 6 mm thick cement plaster (1:4) on top of the R.C.C. 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 conc (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 (1:6) and 1.00m insidedia.(SAIL/TATA/RINL)	Each	2.00		

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PART-B(i) SCHEDULE OF QUANTITY FOR CIVIL WORK BUILDING (FIRST FLOOR)

SL.NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	Hire and labour charges for shuttering with centering 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 and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)				
	(When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4 m and extra for works beyond the initial 4 m ht. shall be allowed under 12 (e) for every 4 m or part thereof)				
1.1	(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	Sq.m	79.00		
	(c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work				
1.2	1st floor	Sq.m	1026.00		
1.3	2nd floor	Sq.m	60.00		
2	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.(b) River bazree				
	Ground floor	Cu.m	2.00		
3	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. (ii) River bazree				
	Ground floor	Cu.m	5.00		
4	Controlled Cement concrete with well graded stone chips (20 mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS : 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 and job mix formula. In ground floor and foundation.[using concrete mixture] M 25 Grade(ii) N.B. Variety (Stone Metal)				
	1st floor	Cu.m	127.00		
	2nd floor	Cu.m	7.00		
5	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc 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 intersection, complete as per drawing and direction.				
	For works in foundation, basement and upto roof of ground floor/upto 4 m (Tor steel/Mild Steel)				
	(i) Tor steel/Mild Steel SAIL/TATA/RINL				
	1st floor	MT	14.000		
	2nd floor	MT	0.700		

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6	125 mm thic brick work with 1st class bricks in cement mortar (1:4).				
	1st floor	Sq.M	567.00		
	2nd floor	Sq.M	150.00		
7	Extra for using approved H.B netting in every third layer in 16 & 17 above in any floor	Sq.M	567.00		
8	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).[Excluding cost of chipping over concrete surface]				
	(i) With 1:6 cement mortar				
8.1	1st floor (15 mm thick plaster)	Sq.M	1508.00		
8.2	2nd floor	Sq.M	330.00		
	(ii) With 1:4 cement mortar				
8.3	1st Floor	Sq.M	540.00		
9	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 exluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be correted upto three decimals).				
	1st Floor	Cu.M	0.551		
10	Supplying, fitting and fixing M.S. clamps 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. (Cost of concrete will be paid separately)				
	40mm X 6mm, 125mm Length	Each	186.00		
11	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) 1st Floor.35 mm thick shutters (single leaf)	Sq.M.	37.00		
12	Supplying fitting, fixing decorative lamination conforming to IS: 2046 : 1995 as per approved make, brand, finish and thickness with fitting, fixing the same on Particle/MDF / Ply Boards with recommended / approved adhesive with proper clipping the sides for better attachment as per direction of Engineer-in charge.The rate includes the cost of labour, adhesive and all incidental charges thereof. In ground floor				
	Glossy/Matt/Suede excluding surface texture or metallic lustre				
	.(ii) Thickness of laminate 1 mm	Sq.M.	74.00		
13	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screw.				
13.1	(iv) 150mm long x 10mm dia. bolt.	Each	30.00		

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13.2	(x) 300mm long x 12mm dia. bolt.	Each	32.00		
14	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark.(Add Extra 30% for Oxidised Fittings)				
14.1	(iii) 75mm. X 40mm. X 1.12mm.	Each	60.00		
14.2	(vii) 100mm. X 58mm. X 1.90mm. for Oxidised Fittings)	Each	64.00		
15	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.				
	With continuous plate base (Hexagonal / Round rod)				
15.1	(ii) 100 mm grip x 10 mm dia rod.	Each	30.00		
15.2	(vi) 150 mm grip x 10 mm dia rod.	Each	32.00		
16	(a) Supplying 'Godrej' mortice lock chromium plated with latch and keys 4 levers, including fitting and fixing complete.				
	1st Floor	Each	16.00		
17	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. In ground floor.(i) 32 mm thick				
	Ground floor	Sq.m	24.00		
18	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria..				
	(ii) 66mm x 70mm	Mtr.	75.00		
19	(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.				
	(Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% for each addl. Floor above 4th floor)				
	Grill weighing above 16 Kg./sq.mtr and above				
	1st Floor	Qntl	6.00		
20	Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS 1038-1975 and manufactured from rolled steel sections conforming to IS 7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete (1:2:4) with stone chips 20 mm down cutting holes and mending good damages to match with existing surface complete in all respect excluding glazing.				
	(Add extra @ 1.2 % for each additional floors upto 4th floor and @ 1.5% for each addl. Floor above 4th floor.)				

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	b) Openable steel windows as per IS sizes with side hung shutters and horizontal glazing bars. [The extra rate admissible for the openable portion only]	Sq. M.	37.00		
21	(iv) Two point nose steel handle including fitting and fixing.	Each	36.00		
22	(vi) steel peg stay 300 mm long including fitting and fixing.	Each	36.00		
23	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. (In all floors for internal wall & upto 6 m height for external wall)				
	(ii) 4 mm thick	Sq.M	32.00		
24	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement. (Add extra @1.5% for each addl. floor upto 4th floor and @1.75% for each additional floor above 4th floor for item No.5 and 6 of subhead A).(iii) 35 mm. thick				
	Ground floor	Sq. M	510.00		
25	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) Floor				
	With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m.				
	(a) Area of each tile upto 0.09 Sq.m				
	(i) Coloured decorative				
	Ground Floor	Sq. M	45.00		
26	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P. M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in - charge.				
	c) 37.5mm thick	Sq.m	545.00		

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27	(a) Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and water proofing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) as per Manufacturer's specification [Cement to be supplied by the Department]	Sq.m	590.00		
28	Extra rate for using water proofing and plasticising admixture @ 0.2% by weight of cement (or at manufacturer's specified rate) for concrete of various grades	kg	50.00		
29	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete.				
29.1	(ii) 110 mm. Dia.	Metre	36.00		
	c) Bend 87.5 degree				
29.2	(ii) 110 mm. Dia.	Nos	10.00		
30	Colour washing with any shade with Stainers, as required including cleaning and smoothening surface thoroughly : (ii) External surface (Ground floor)(b) Two coats (on new works only).(i) Other than yellow, pink.				
30.1	1st floor	%Sq.M	389.00		
30.2	2nd floor	%Sq.M	330.00		
31	Colour washing with any shade with Stainers, as required including cleaning and smoothening surface thoroughly : (i) Internal surface (All floors)				
	(b) Two coats (on new works only).(i) Other than yellow, pink.	%Sq.M	1960.00		
32	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	Sq.M	35.00		
33	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	Sq.M	44.00		
34	A) 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 :				
	On timber or plastered surface :				
	With super gloss (hi-gloss) -				
	Two coats (with any shade except white)	Sq.M	44.00		
	On steel or other metal surface :				
	With super gloss (hi-gloss) -				
	Two coats (with any shade except white)	Sq.M	35.00		

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PART-B(ii) SCHEDULE OF QUANTITY FOR SANITARY WORK BUILDING (FIRST FLOOR)

SL.NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	Supplying, fitting and fixing Shallow water closet Indian pattern (I.P.W.C.) of approved make in white vitreous chinaware in position (excluding cost of concrete for fixing).				
	(i) 580 mm long	Each	4.00		
2	Supplying, fitting and fixing 10 litre P.V.C. 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	9.00		
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.				
	(ii) Plastic (hallow type) white	Each	5.00		
4	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc.				
	b) With 'S' trap	Each	5.00		
5	Supplying, fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete.				
	i) Polythene Flush Pipe	Each	9.00		
6	Wash basin vitreous china of approved make (without fittings) supplied, fitted and fixed in position on 75mm X 75 mm X 75 mm wood blocks and C.I. brackets including two coats of painting of C.I. brackets.				
	(i) 635 mm X 395mm X 420 mm	Each	9.00		
7	Supplying, fitting and fixing pillar cock of approved make.				
	a) (i) CP Pillar Cock - 15 mm. (Equivalent to Code No. 507 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	12.00		
8	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. (ii) 600 mm X 450 mm	Each	9.00		
9	Supplying, fitting and fixing soap holder. PTMT	Each	9.00		
10	Supplying, fitting and fixing toilet paper holder of approved make with wooden spindle as necessary.				
	Roll type size 250 mm X 125 mm	Each	9.00		
11	Supplying, fitting and fixing bib cock or stop cock.				
	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).	Each	12.00		
12	Supplying, fitting and fixing complete Bottle waste trap (Heavy Quality)				
	Chromium plated Bottle trap 32 mm with 190 mm long connecting pipe and wall flange (Equivalent to Code No. 545 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	9.00		
13	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia.				

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	600 mm long	Each	18.00		
14	Supplying, fitting and fixing bib cock or stop cock.				
	(a) (i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	10.00		
15	Supplying, fitting and fixing pillar cock of approved make.				
	f (ii) CP 2-way bib Cock - 15 mm, supplied, fitted and fixed. (Code No.5041 & Model - FLORENTINE of JAQUAR or similar brand).	Each	5.00		
16	Supplying, fitting and fixing towel rail with two brackets.(a) C.P. over brass				
	(ii) 25 mm dia. and 600 mm long	Each	13.00		
17	Supplying, fitting and fixing shower of approved brand and make.				
	(f) Hand Shower(Health Faucet) with 1mtr Flexible Tube with Wall Hook(Equivalent to Code No.573 & Model - ALLIED of Jaquar or similar	Each	5.00		
18	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTMD - 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, longscrow, 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. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately)				
	(a) For Exposed Work PVC Pipes				
18.1	50 mm	metre	8.00		
	(b) For Concealed Work (Dia)				
18.2	20 mm	metre	50.00		
18.3	25 mm	metre	50.00		
19	Supply of PVC pipes & fittings (medium duty) conforming to ASTMD -1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I).				
	50 mm dia.	metre	50.00		
20	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (A) (i) Single Socketed 3 Meter Length				
20.1	110 mm	metre	40.00		
20.2	160 mm	metre	40.00		
20.3	Door Tee	Each	10.00		
20.4	Door tee 110 mm (LH) & (RH)	Each	10.00		
20.5	Door Y 110 mm (LH) & (RH)	Each	10.00		
20.6	Door Bend (T.S.)110 mm	Each	10.00		
20.7	Vent cowl 110 mm	Each	4.00		
20.8	Bend 45° 110 mm	Each	10.00		
20.9	Bend 87.5° 110 mm	Each	10.00		
20.10	Bend 87.5° 160 mm	Each	10.00		
20.11	Door bend (LH & RH) 110mm	Each	10.00		

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20.12	Nahani Trap 90 mm	Each	14.00		
20.13	Round Jali 75mm	Each	14.00		
21	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials.(A)Above ground				
	(A) Above ground				
21.1	(ii) 110 mm	Metre	40.00		
21.2	(iii) 160 mm	Metre	40.00		

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PART-C(i) SCHEDULE OF QUANTITY WELL & PUMP

Sl. No.	Description of work	Qty.	Unit	Rate	Amount
1	Supplying, fitting and Borring RCC well ring 750m dia well depth 25' .	1.00	L.S		
2	Supplying, fitting and fixing special hand pump no. 6 of approved make (for 50 mm or 40 mm dia. tube well).	1.00	each		
3	Supplying, fitting and fixing PVC pipes for underground work of approved make of Schedule 80 (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, longscrow, reducing socket, reducing tee, short piece etc. fitted 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 complete in all respect. (Payment will be made on the centre line measurement of the total pipe line including all specials No separate payment will be made for accessories, specials.) PVC Pipes				
	50 mm	10.00	metre		
4	Supply,fitting TEXMO:Single Phase Self -Priming Monobleock pump set (Model noCHR4, 1 HP)	1.00	nos		

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PART-C(ii) SCHEDULE OF QUANTITY FOR CIVIL WORK PLINTH PROTECTION

SL.NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	Earth Work in excavation of foundation trenches or drains , in all sorts of soil (including mixed soil but excluding lateritem or sandstone) including removing , speading 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 requird complete .				
	(a)Depth of excavation not exceeding 1.500 mm.	%Cum	8.00		
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)				
	With earth obtained from excavation of foundation	%Cum	8.00		
3	Supplying and laying polythene Sheet (150gm /msq.m) over damp proof course or below flooring or roof terracing or in foundation or in fondation trenches.	Sq.m	51.00		
4	Cement concrete with 30 mm down graded shingles excluding shuttering. N.B. Variety (1:3:6)	Cu.m	6.00		
5	Hire and labour charges for shuttering with centering 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 and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)				
	(When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4 m and extra for works beyond the initial 4 m ht. shall be allowed under 12 (e) for every 4 m or part thereof)				
	(f) 25 mm to 30 mm shuttering without staging in foundation				
	Ground floor	Sq.m	9.00		
6	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).[Excluding cost of chipping over concrete surface]				
	(i) With 1:6 cement mortar				
	(b) 20 mm thick plaster	Sq.m	51.00		
7	Neat cement punning about 1.5mm thick in wall,dado>window sill,floor etc. NOTE:Cement 0.152 cu.m per100 sq.m.	Sq.m	51.00		

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PART-D) SCHEDULE OF QUANTITY FOR ELECTRICAL WORKS (GROUND & FIRST FLOOR)

SL NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Distribution wiring in 2x22/.3(1.5 sqmm)single core stranded 'FR' PVC insulated & unsheathed copper wire (approved make) in 20mm size PVC rigid conduit 'FR' (precision make) with 1x22/0.3(1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire ECC with all accessories embedded in wall/ceiling , to light/fan/call bell points with Modular type switch fixed on GI switch board on wall complete with 2 no. suitable size "Ph & N" copper bar with holes fixed on bakelite/hard rubber insulation over the JB welded chairs incl. Modular (wall matching colour) top cover 3 mm thick and incl. suitable size inspection box making earthing attachment painting the GI box and mending good the damages.	Pts.	190		
2	Distribution wiring in 1.1 KV grade 2x22/.3(1.5 sqmm)single core stranded 'FR' PVC insulated & unsheathed copper wire (approved make) in 20mm size PVC rigid conduit 'FR' (precision make) with 1.1 KV grade 1x22/0.3(1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire as ECC with all accessories embedded in wall, to 6A modular socket & Modular type switch fixed on GI switch board incl. modular (wall matching colour) top cover 3mm thick and incl. painting the GI box and mending good the damages to original finish.				
	On board/separate	Pts.	37		
3	SUPPLY FIXING & CONNECTION LIGHT FITTINGS/FANS:				
a	2' LED TUBE 8W or Similar approved of Philips/ Wipro/ Crompton Greaves (with all accessories)	Each	34		
b	4' LED TUBE 20W or Similar approved of Philips/ Wipro/ Crompton Greaves with all accessories.	Each	63		
c	Supplying and fixing of call bell with modular type push complete with plate and box to be fixed and mending good all damages.	Each	3		
d	6W round down light or Similar approved of Philips/ Wipro/ Crompton Greaves (Surface mounted LED downlight).	Each	18		
e	Supply and fixing of 400mm 230V oscillating type Wall mounted Bracket fan to be fixed on wall with allied arrangement.(Havells/ Polstan make) with all accessories.	Each	6		
f	Supply,erection and connection of Exhaust fan etc as required (Havells/Usha make)	Each	20		
g	Supply and fixing of 1200 mm sweep ceiling fan with out regulator, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required. [Make:USHA -Striker Plus /Orient/Polar/Bajaj]	Each	45		

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4	MAIN LINE WIRING				
a	Supply and laying 4x10 sqmm+1x6sqmm PVC insulated copper wire from Panel board to LDB (Use HAVELLS/FINOLEX/KEI/POLYCAB)	mtr	100		
b	Supply and laying 2x4sqmm+1x2.5sqmm PVC insulated copper wire from TPN MCB DB to power plug (Use HAVELLS/FINOLEX/KEI/POLYCAB)	mtr	200		
c	Supply and laying 2x2.5sq.mm+1x1.5sqmm pvc insulated copper wire from TPN MCB DB to switch boards (USE HAVELLS/FINOLEX/KEI/POLYCAB)	mtr	250		
d	Supplying and fixing 250V 6 pin 16A modular plug socket with 16A modular switch and earthing attachment incl. S&F sheet GI box, modular plate and necessary earthing attachment.	Each	18		
5	RAW POINT WIRING				
a	Supply and laying 2x6sqmm+1x4sqmm PVC insulated copper wire (PANEL BOARD to MAIN TPN MCB DB) (USE HAVELLS/FINOLEX/KEI/POLYCAB)	mtr	25		
6	EARTHING				
a	Earthing with 50mm dia GI pipe 3.64mm thick x 3.04 Mts. Long and 1x4 SWG GI (Hot Dip) wire (4 Mts. long), 13mm dia x 80mm long GI bolts, double nuts, double washers incl. S&F 15mm 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 (by TATA-MEDIUM) GI pipe (1 nos. for body, 2 nos. for generator set, one for ups)	No.s	2		
b	Supplying and Drawing 8 SWG GI wire with shading arrangement	mtr	50		
c	S&F earth busbar of galvanised (hot dip) MS flat 40mmx6mm on wall having clearance of 6mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required	set	2		
7	MAIN ELECTRICAL CUBICAL PANEL				
	Floor/wall mounting type . Supply, fabricating, assembling, interconnection, testing, & connecting with incoming, out going power cables & lines as required to complete the job of cubical type electrical panel made from 14SWG CRC sheet with proper earthing terminal (nut, bolt and washer) 2 no. outside panel, same nut, bolt to tighten with internal earth busbar of panel situated inside wire box (on top portion of panel). On top side of panel cable entry arrangement to be done for incoming and out going of lines. Painting powder coating electrical grey/siemens grey to be done. One 6"x4" 440V danger board to fix up on main panel busbar cover. All switches are front handle operated & all MCB knob should be visual, all components should provide in separate compartments only. One DB and one busbar (main incoming for ac and panel board and for panel board alone) in one compartment. All door are detachable type with IP protection.				
	i) 500 V 100 A TPN HRC fuse-1				
	ii) 500V 63A TPN HRC fuse - 1				
	iii) 500V 63A TPN on Load change over switch - 1				

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	iv) 500V 100 A bus bar Cu with BBC on heavy duty porcelain chairs - 2 set				
	v) 500 V 63 A FP MCB-2NO.				
	vi) 230V/415 V 40A(10KA) SP MCB-4No.				
	vii) 230V/415V 25A (10 KA) SP MCB-1 and HAVELLS XPRO (glow sign board)				
	viii) 0-100 Amp. Ammeter with selector switch- 1 Set				
	ix) 0-500V Voltmeter with selector switch - 1 set				
	x) 100/5 CT - 3 Nos				
	xi) LED Indicator lamp - 3 Nos				
	xii) Medium pressure caution Board - 1 No.	set	1		
8	Main Incoming Switch Fuse Unit. Supply fixing of 100 Amps TPN HRC type SFU at WBSEB end for main incoming on MS angle. Frame & 02 nos Cable end box including connection.	set	1		
14	LIGHTING DISTRIBUTION BOARD				
9	Supply & installation of following HAVELLS/ LEGRAND make 16 way TPN MCB distribution board with MCB having short circuit breaking capacity of 10KA or RCBO of 100 mA sensitivity having overload short circuit & earth leakage protection complete with neutral,phase & earth bar with 1 No. 40A DP RCBO as incoming 10x6A SPMCB as outgoing to be partially recessed in wall.	set	2		
10	MAIN POWER CABLE				
a	Supplying, laying & fixing 4 core 50 sqmm PVC insulated,XLPEsheathed AL conductor,1100 v grade armoured cable complete with 2 No.s 8 SWG bear GI wire as running earth(main power cable).	mtr	20		
b	Supplying and fixing compression type gland,brass ring and rubber ring for dust & moisture-proof entry of XLPE/PVC armoured 4 core 50 sqmm cable.	Each	2		
c	Supplying and fixing finishing 50 sqmm cable ends by soldering with cable sockets and insulated tapes etc. including supplying sockets,soldering materials,tapes etc. and making connection to switch,BDB and BBC etc.	Each	2		

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List of approved materials for Civil & Sanitary Plumbing		
1	Ordinary Cement Concrete(1:1.5:3)	Structure River Bazree (River Chamurchi/ Dimdima/Oodlabari)
	Ordinary Cement Concrete(1:2:4)	Other work River Bazree (River Chamurchi/ Dimdima/Oodlabari)
	Ordinary Cement Concrete(1:3:6)	PCC Foundation & Flooring River Bazree (River Chamurchi/ Dimdima/Oodlabari)
2	Cement	Best quality, (OPC)- ACC/ AMBUJA/ Ultratech/ Double Bull (Nuvoco) confirming to.
3	Steel	Hot rolled deformed bars confirming to IS:1139-1966 (Fe-500 HYSD) "TATA, SAIL, RINL".
4	Ply	25 mm to 30 mm thick wooden Shuttering & 9 mm to 12 mm Steel shuttering
5	Brick Wall up to Plinth Level External	250 mm External wall (All brick work shall confirm to IS: 2212-1962.)
	External wall	125mm Thick (All brick work shall confirm to IS: 2212-1962.)
	Internal Wall	125mm Thick (All brick work shall confirm to IS: 2212-1962.)
6	Plaster	Sand (River Jalpesh)
	External wall	20 mm thick (1:6) Sand (River Jalpesh)
	Internal Wall	15 mm thick (1:6) Sand (River Jalpesh)
	Ceiling	10 mm thick (1:4) Sand (River Jalpesh)
7	Door Frame	Siliguri Sal wood frame with Synthetic enamel Paint.
8	Flush door	Solid flush door of commercial 35 mm thick Shutter (Single leaf) (Make Green/ Century/ Sylvan).
9	Laminate	Laminate 1mm thick Glossy/ Matt (Make Century/Green/ Formica/ Archid).
10	Mortice Lock	Godrej/ Dorset/ Link/.
11	Toilet Door Frame	Fibre Reinforced Polymer (FRP).
12	Toilet Door Shutter	Fibre Reinforced Polymer (FRP).
13	Window	Steel window Openable with 4mm thick Glass (Synthetic enamel Paint).
14	Window Grill	M.S. or W.I Ornamental Grill weighting above 16kg/Sq.m (Synthetic enamel Paint).
15	Flooring	Cement flooring in floor (IPS).
16	Toile's floor	Ceramic tiles Antiskid matt finish (Make Johnson/ Somany).

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17	Toile wall	Neat Cement finishing.
18	Painting External wall	External Wall Colour washing (Make: Asian paint, Burger).
19	Painting Internal wall	Internal Wall Colour washing (Make: Asian paint, Burger).
20	Painting Internal Ceiling	Internal Ceiling Colour washing (Make:Asian paint, Burger).
21	Rainwater Pipe	UPVC Rainwater Pipe (Make: Supreme/Princh/Finolex)
22	I.P.W.C/(EWC/	Vitreous china, conforming to IS:2556 "HINDWARE/CERA/JOHNSON/PARRYWARE".
23	PVC Pipe/ UPVC Pipe Concealed water supply pipe for Toilet	Supreme/Princh/Finolex)
24	Sanitary Plumbing All fitting	Jaguar or Similar/ Essco

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Specification Sheet of Electrical works for the project "Jalpaiguri RSETI,

1	PVC conduit/Fitting	Medium gauge wall thickness ISI & FIA approved & manufactured from virgin material precision, Bec or equivalent
2	Accessories for conduit	Same make as sr. no.1 above
3	Wire Cu flexible (FRLS)	Polycab /Finolex/KEI
4	Modular Switches	Legrand or similar approved
5	Switch Fuse Unit	Legrand or similar approved
6	MCB	Legrand or similar approved
7	VTPN/TPN/SPN/MCB DB	Legrand or similar approved
8	MCCB	Legrand or similar approved
9	2' Led tube 8 W	Philips/ Wipro/Crompton Greaves
10	4' Led tube 20 W	Philips/ Wipro/Crompton Greaves
11	6 W round down light	Make Philips/ Wipro/Crompton Greaves
12	Wall Mounted Bracket fan	Make Havells/ Philips
13	Exhaust Fan	Make Havells/ Usha
14	1200 mm Sweep Ceiling Fan	Make Usha /Orient/Polar/Bajaj

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