

**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

PART-A' CONSTRUCTION OF BOUNDARY WALL 'PLOT-B'					
SL				RATE	AMOUNT
No	DESCRIPTION	UNIT	QNT	Rs. P.	Rs. P.
1	Earth work in excavation of foundation trenches for boundary wall, in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing, Spreading or stacking the spoils within a lead of 75m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water etc. as required complete.				
	Depth of excavation not exceeding 1500mm.	Cum	148		
2	Filling in foundation trench plinth with earth obtained from excavation of foundation in layers not exceeding 150mm. as directed and consolidating the same by thorough saturation with water, ramming complete.	Cum	70		
3	Removal of rubbish from the working site and disposal of the same, beyond the compound exceeding 10 Km. and depositing and levelling in conformity with the Municipal/ Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of E.I.C.	Cum	78		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.				
a	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	15		
b	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	7		
5	125 mm thick Brick masonry work in cement mortar (1:4) using approved H.B. netting in every third layer with approved 1st class bricks ( 250 x 125 x 75 ) having minimum crushing strength of 105 kg per Cmsq. including curing at least for 7 days, before using it for work cleaning and soaking the brick at least for 24 hours, scaffolding, staging, all leads and lifts from any point to any point inside the site, in all structures such as walls / pillars / supports etc. as directed by the E.I.C.	Sqm	318		
6	Reinforcement 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.	Cum	69		
7	Hire and labour charges for shuttering with centering and necessary staging upto 4 M. using approved stout proper and hard wood planks of approved thickness with required bracing for concrete slabs, beams, stairs, columns, walls, lintel, any curved member, fins, chajjas and fascia etc. including fitting, fixing and striking out after completion of mandatory period as specified.				
	Steel shuttering or 9 mm to 12 mm thick approved quality ply board shuttering in any concrete work.	Sqm	731		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
8	Reinforcement steel (Fe-500) for reinforced concrete work in all sorts of structures including distribution bars, stirrups binders etc. including supply of steel bars, 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 of E.I.C.	MT	8.0		
9	Providing & applying 20mm thick cement plaster to external surfaces of masonry and concrete surface in two coats, underlayer 12mm thick cement mortar 1:6 ( 1 cement : 6 coarse sand ) and top layer 8mm thick cement plaster 1:6 (1 cement: 6 coarse sand) finished smooth and leveling the surface all complete. External plastering shall include roughening of the concrete surface, raking out joints of brick works including groove where ever required, curing at least for 7 days-etc., scaffolding, staging etc.	Sqm	1038		
10	Neat cement punning 1.5mm thick.	Sqm	169		
11	Applying exterior grade Acrylic primer (Single coat) of approved quality and brand on plastered or concrete surface to receive decorative textured or smooth finish acrylic exterior emulsion paint including smoothening the surface by sand papering and scaffolding etc. complete in all respect as per direction of the E.I.C.	Sqm	1038		
12	Priming single coats on steel surface with synthetic oil bound primer of approved make and brand including smoothening the surface by sand papering and scaffolding etc.	Sqm	191		
13	Supplying & applying two coats of protective and decorative Acrylic smooth exterior (anti fulgal) emulsion paints of approved quality on external / internal wall surface including surface preparation, scaffolding etc. complete as per direction of E.I.C.				
	Super protective 100% acrylic emulsion.	Sqm	1038		
14	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 with scaffolding, complete				
	On steel or other M.S. surface with hi gloss				
	Two coats with approved shade.	Sqm	191		
15	M.S. Ornamental grill / railing 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 Grill weighing above 14 Kg./sqm and up to 16 Kg./sqm	Kg	1432		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
16	Supplying, fitting and fixing grill gate, frame made from 50 mm x 6 mm M.S. flat iron with another horizontal flat at the middle, 20 mm dia M.S.bars at 200 mm apart from bottom flat to top and 20 mm dia M.S. bars at 200 mm apart from bottom flat to middle flat including drilling, welding etc. complete. All vertical bars are to be protruded at least 100 mm above the middle and top flat is to be flattened and pointed as directed. Necessary locking arrangement on both faces; arrangement for temporary closing the gate and 2 nos strong iron hinges of M.S. bars and flat of same sizes on each leaf to be embedded in C.C. brick / R.C.C. pillars as necessary including a red oxide painting to all iron works as directed and specified	Kg	360		
17	M.S.works in post made of angles, tees et. To sizes spec ially bent, twisted, forged; making holes drilled and fitted with necessary bolts, asher or screws etc.	Kg	500		
18	Renewing IRC fabric mesh(back side boundary wall area) of 75mmx 50mmx4.5mmx2.7mm on 50mmx50mmx 6mm angle iron frame sail round and one 37.5mmx6mm M.S. flat bar over the netting all round welded to angle iron frame and providing locking arrangements if necessary and with two coats of synthetic enamel paint (Other than HI-gloss) fitted and fixed with clamps etc. complete including flats tiffeners on everything. MS angle paid sapareltly.	Sqm	281		
<b>PART-'A': TOTAL CARRIED TO GENERAL SUMMARY</b>					
<b>PART-'B' CIVIL WORK</b>					
1	Earth work in excavation of foundation trenches for boundary wall, in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing, Spreading or stacking the spoils within a lead of 75m, as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water etc. as required complete.				
a	Depth of excavation not exceeding 1500mm.	Cum	350		
b	Depth of excavation for additional depth beyind 1500 mm and upto 3000 mm.	Cum	25		
2	Filling in foundation trench plinth with earth obtained from excavation of foundation in layers not exceeding 150mm, as directed and consolidating the same by thorough saturation with water, ramming complete.	Cum	125		
3	Filling in foundation trench plinth with silver sands in layers not exceeding 150mm, as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of silver sand.	Cum	150		
4	Removal of rubbish from the working site and disposal of the same, beyond the compound exceding 10 Km. and depositing and levelling in conformity with the Municipal/ Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of E.I.C.	Cum	250		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
5.	Anti termite treatment to the back filling of R.C.C. foundation with chemical emulsion by admixing chloropyrofos emulsifiable concentrate (1% concentration) with water by weight at the rate of 7.5 ltr. per sq.m. of the vertical surface of the substructure of each side of the foundation. The work shall be carried out as per specification as described in para 6.3.1 of code IS6313 (part-II) 1981 (Mode of measurement will be per sqm of vertical area of foundation treated).	Sqm	462		
6.	Anti termite treatment to the top surface of the consolidated earth within plinth walls with chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1% concentration) with water by weight at the rate of 5 Litres per sq. m. of the surface before sand bed or sub-grade is laid. Holes 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 facilitate 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 measurement will be per Sq.m of plan area of plinth treated.)	Sqm	472		
7	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level, and filling joints with powdered earth or sand.	Sqm	425		
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.				
a	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	65		
b	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	Cum	2		
9	Brick masonry work in cement mortar (1:6) using approved 1st class bricks (250 x 125 x 75) having minimum crushing strength of 105 kg per Cmsq. including V- Groove jointing on both faces, curing at least for 7 days, cleaning and soaking the brick at least for 24 hours before using it for work, scaffolding, staging, all leads and lifts from any point to any point inside the site in all structures such as walls / pillars / supports etc. as directed by the E.I.C.	Cum	210		
10	125 mm thick Brick masonry work in cement mortar (1:4) using approved H.B. netting in every third layer with approved 1st class bricks ( 250 x 125 x 75 ) having minimum crushing strength of 105 kg per Cmsq. including curing at least for 7 days, before using it for work cleaning and soaking the brick at least for 24 hours, scaffolding, staging, all leads and lifts from any point to any point inside the site, in all structures such as walls / pillars / supports etc. as directed by the E.I.C.	Sqm	400		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
11	Providing and laying Design mix concrete of M-25 grade ( BMC / RMC ) with well graded stone chips of maximum size 20mm containing designed quantity of cement per Cu.m. of wet concrete produced in computerized batching plant under controlled condition using approved super plastisizer designing concrete mix following I.S. 10262 and I.S. 456 transporting the mix with agitation in transit mixer to work site depositing the mix on a plat form erected for the purpose at required levels of concreting and then placing the mix in its final location of form work compacting and curing the same complete as per specification & direction of the Engineer-in-charge including computerized batching plant, transit mixer with all accessories vibrators etc. Inclusive of all other incidental charges in this connection complete including the cost of platform and its supporting staging. With approved concrete pump.	Cum	451		
12	Hire and labour charges for shuttering with centering and necessary staging upto 4 M. using approved stout proper and hard wood planks of approved thickness with required bracing for concrete slabs, beams, stairs, columns, walls, lintel, any curved member, fins, chajjas and fascia etc. including fitting, fixing and striking out after completion of mandatory period as specified.				
a	Steel shuttering or 9 mm to 12 mm thick approved quality ply board shuttering in any concrete work.	Sqm	3610		
b	Add extra over normal shuttering for staging beyond 4 M in any floor (mode of measurement : area in plan x mean height of staging up soffit of shuttering above initial 4 M)	Cum	150		
13	Reinforcement steel (Fe-500) for reinforced concrete work in all sorts of structures including distribution bars, stirrups binders etc. including supply of steel bars, 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 of E.I.C.	MT	61		
14	Providing & applying 10mm thick Plaster in cement mortar (1:4) to all RCC surfaces including ceiling with cement and sand mortar (1 part of cement + 4 parts of sand) including necessary scaffolding, rounding off or chamfering corners as directed and raking out joints & roughening of concrete surface, including throating, nosing, groove where ever required, curing at least for 7 days etc. complete as per the drawings and specifications / as directed by the E.I.C.	Sqm	950		
15	Providing & applying 15 mm thick Plaster in cement mortar (1:6) to all internal wall surfaces with cement and sand mortar ( 1 part of cement + 6 parts of sand ) including necessary scaffolding, rounding off or chamfering corners as directed and raking out joints & roughening of concrete surface, including throating, nosing, groove where ever required, curing at least for 7 days etc. complete as per the drawings and specifications / as directed by the E.I.C.	Sqm	1570		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
16	Providing & applying 20mm thick cement plaster to external surfaces of masonry and concrete surface in two coats, underlayer 12mm thick cement mortar 1:6 (1 cement : 6 coarse sand ) and top layer 8mm thick cement plaster 1:6 (1 cement: 6 coarse sand) finished smooth and leveling the surface all complete. External plastering shall include roughening of the concrete surface, raking out joints of brick works including groove where ever required, curing at least for 7 days etc., scaffolding, staging etc.	Sqm	1200		
17	Neat cement punning 1.5mm thick.	Sqm	30		
18	Plinth Protection				
	Material and labour for providing 50 mm thick P.C.C. 1:3:6 (1 cement : 3 sand : 6 20mm down stone aggregate) over 75 mm bed by dry brick ballast 40 mm nominal size well rammed and consolidated with fine sand including finishing the top with net cement complete all as specified and directed by E.I.C.	Sqm	85		
19	Water Proofing of Roof Slab				
	Providing and laying water proofing treatment on roof slabs as flowing stages :-				
a	Cleaning the RCC roof slab including parapet up to 300 mm height by wire brush, chisel out any mortar protrusions thereafter rendering of uneven surface with cement sand motar (1:4) mixed with integral water proofing compound to make it even.	Sqm	471		
b	After surface preparation, first layer of slurry of cement @ 0.488 kg / Sqm mixed with polymer modified water proofing cement compound @ 0.253 Kg / Sqm.	Sqm	471		
c	Laying second layer of fibre glass cloth when first layer is still green. Overlaps of joints of fibre cloth should not be less than 100 mm.	Sqm	471		
d	Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 Kg / Sqm mixed with polymer modified water proofing cement compound @ 0.670 Kg / Sqm and coarse sand @ 1.289 Kg / Sqm. This will be allowed to air for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 300 mm on parapet wall and tucked into groove in parapet all around.	Sqm	471		
20	Providing & laying Screed concrete 1:1.5 :3 (1 part of cement : 1.5 parts of fine aggregate : 3 parts of coarse aggregate 12 mm ) on the roof slab / toilets / kitchen / balcony etc.of 40 mm average thickness synthetic fiber over waterproofing treatment. This shall include careful compaction , proper curing, minimum for a period of 7 days etc. as per direction and to the satisfaction of the E.I.C. waterproofing treatment measured separately.	Sqm	471		
21	25 mm thick damp proof with cement concrete (1 : 1-1/2 :3 )(with graded stone chips 10 mm normal size) and admixture of water proofing compound as per manufacture's specification followed by two coat of of polymer based paint ( 1st coat after 4 to 5 days of concrete laying and 2nd coat just before brick masonry work ) as directed.	Sqm	50		
a	Extra rate over item No. 26 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		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
b	Extra rate over item No. 36 for applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and water proofing properties by mixing with in proportion ( 1 bonding agent : 4 water : 6 cement ) as per manufacturer's specification.	Sqm	50		
22	M.S. structural steel works for fire stair in columns, beams etc. with simple rolled structure members joists, angle, channel section conforming to IS : 226, IS : 800 & SP (6) 1964 connected to one another with bracket, gusset, cleats as per design, direction of E.I.C. complete including cutting to requisite size, fabrication with necessary metal arc welding conforming to IS : 816 - 1956 & IS : 1995 using electrodes of approved make and brand conforming to IS : 814 - 1957, haulage, hoisting and erection at roof level of multiplexes all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charges of all tools and plants and labour required for the work and one coat of red oxide zinc chromath primer including all incidental charges such as electricity charges, labour insurance charges etc.	Mt	4		
23	Kota stone slabs 20 mm thick in floor, treads and risers, skirting etc, laid on 20 mm (average) thick cement mortar 1 : 4 ( 1 cement : 4 coarse sand ) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including providing grooves on treads and rubbing and polishing complete. Moulding and groove measured separately, complete in all respect as per drawing and specifications and as per direction of Architect/E.I.C. - Basic Price Rs.377/- SqM.	Sqm	83		
24	Providing edge moulding for snair/counters /others place including machine polishing to edge to give high gloss finish etc. complete as per design approved by E.I.C.	Rm	100		
25	Making 6 mm wide, 3 mm deep groove on stair with machine cut finish in true line and level complete	Rm	300		
26	Providing & fixing of ceramic tiles (thickness to be specified by the manu-facturer) of 1st quality conforming to I.S.: 15622 of approved make and colours for Dado at all levels & heights over a cement mortar (1:3) bed of 15 mm thick and 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sqm and joint filling using white cement slurry with pigment including cutting wherever required, making Hole for traps, pipes, comode & electric box, cladding, copla, V groove cutting (with moulding) including cleaning, curing, tools complete in all respect as per drawing and specifications and as per direction of Architect/E.I.C. -Basic Price Rs.775/- SqM.				
	Size of each tile 600 x 300 mm.	Sqm.	275		
27	Providing and laying Antiskid ceramic floor tiles ( thickness to be specified by the manu-facturer ) of 1st quality conforming to I.S.: 15622 of approved make in colours laid on 20mm thick Cement Mortar 1: 4 (1 cement: 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc. complete.-Basic Price Rs.485/- SqM.				
	Size of each tile 450 x 450 mm.	Sqm.	75		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
28	Supplying and laying true to line and level vitrified tile of approved brand (10 mm thick) in floor, skirting etc. over 20 mm thick sand cement mortar 1 : 4 (1 cement : 4 coarse sand) and 2 mm thick cement slurry using cement @ 2.91 kg / Sqm joints with white cement and colouring pigment to match with colour of tiles. Removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of E.I.C. -Basic Price Rs807/- SqM. Size of each tile 600 x 600 mm 9.5 mm thick	Sqm	785		
29	Supplying, lifting, cutting and laying / fixing of 20 mm thick 600 mm wide single piece pre-polished Granite Slab for kitchen platform over one set of horizontal 25 mm thick Cuddapah Stone. Cuddapah and granite stone min. 25 mm deep inserted to wall, jamming by cement mortar & fixing by araldite on the top edge of the cuddapah stone, finished to all shapes (curved or straight), making Hole for traps, pipes, electric box, cutting openings for Kitchen sink, Cladding, copla, V groove cutting (with moulding) & polishing and filling the proper joints with matching colour pigment, curing etc as per drawings, specifications and direction of the EIC. (Including all but excluding the cost of cuddapah stone.) - Basic Price Rs.3000/- SqM.	Sqm.	2		
30	Supplying, lifting, cutting and laying / fixing of 25 mm thick 600 mm wide single piece cuddapah stone Slab for kitchen platform horizontally and vertically. Cuddapah stone min. 25 mm deep inserted to wall, jamming by cement mortar & fixing by araldite, finished to all shapes (curved or straight), making Hole for traps, pipes, electric box, cutting openings for Kitchen sink, Cladding, copla, V groove cutting (with moulding) & polishing and filling the proper joints with matching colour pigment, curing etc as per drawings, specifications and direction of the EIC. -Basic Price Rs.344/- SqM.	Sqm.	2		
31	Supplying, lifting, cutting and laying / fixing of 20 mm thick 450 mm to 600 mm wide single piece pre-polished Granite Slab for toilet counter / basin top fixed 25 mm deep inserted to wall and jamming by cement mortar. Making Hole for traps / pipes with moulding & polishing and filling the proper joints with matching colour pigment, curing etc as per drawings, specifications and direction of the EIC.-Basic Price Rs.3000/- SqM.	Sqm.	5		
32	Providing & laying Artificial stone floor (P.C.C. flooring) with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone chips) laid in panels as directed with 3mm thick topping made with ordinary grey cement and marble dust in proportion (2 : 1) including smooth, finishing and application of cement slurry before flooring works using cement @ 1.75 kg./Sqm. All complete including all material and labours as per specification and direction of E.I.C. 25mm thick.	Sqm	50		
33	Providing two coats of (Birla White/J.K. white or other equivalent) Wall Care Putty (Water Resistant White Cement based putty for walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department (Total thickness of two coats is maximum 1.5mm).	Sqm	2420		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
34	Applying interior grade Acrylic primer (Double coat) of approved quality and brand on plastered or concrete surface to receive acrylic emulsion paint or other interior paint including smoothening the surface by sand papering and scaffolding etc. complete in all respect as per direction of the E.I.C.	Sqm	2420		
35	Applying exterior grade Acrylic primer (Double coat) of approved quality and brand on plastered or concrete surface to receive decorative textured or smooth finish acrylic exterior emulsion paint including smoothening the surface by sand papering and scaffolding etc. complete in all respect as per direction of the E.I.C.	Sqm	1160		
36	Priming Double coats on wooden surface with synthetic oil bound primer of approved make and brand including smoothening the surface by sand papering and scaffolding etc.	Sqm	65		
37	Priming Double coats on steel surface with synthetic oil bound primer of approved make and brand including smoothening the surface by sand papering and scaffolding etc.	Sqm	150		
38	Supplying & applying two coats of protective and decorative Acrylic smooth exterior (anti fulgal) emulsion paints of approved quality on external / internal wall surface including surface preparation, scaffolding etc. complete as per direction of E.I.C. Super protective 100% acrylic emulsion.	Sqm	900		
39	Protective and applying Two coats textured high class matt finish paint of approved quality including surface preparation, scaffolding etc. complete as per direction of E.I.C.	Sqm	260		
40	Applying Two coats acrylic emulsion paint of approved make and brand on interior wall, ceiling and others including cleaning and smoothening the surface. Luxury Quality	Sqm	2420		
41	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 with scaffolding, complete				
a	On timber surface hi gloss Two coat with approved shade	Sqm	65		
b	On steel or other M.S. surface with hi gloss Two coats with approved shade.	Sqm	150		
42	French polishing to wood work with ready mixed french polish of approved brand including preparing the surface. (ordinary gloss)	Sqm	60		
43	Wood work in door / window frame fitted and fixed complete including a proective coat of painting at the contact surface of the frame with brick / concrete. Sal wood local	Cum	1.85		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
44	Supplying 35 mm thick solid flush type doors of deluxe decorative one side veneer finished conforming to IS : 2202, 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 placed both ways in order to make the door of solid core and internal lipping with teak, mahogany or rose or similar wood veneers using phenol for maldehyde as glue etc. complete, including fitting, fixing shutters in position but excluding the cost of hinges and other fittings.	Sqm	57		
45	Supplying 35 mm thick solid flush type doors of deluxe decorative one side laminated finished quality conforming to IS : 2202, 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 placed both ways in order to make the door of solid core and internal lipping with teak, mahogany or rose or similar wood veneers using phenol for maldehyde as glue etc. complete, including fitting, fixing shutters in position but excluding the cost of hinges and other fittings.	Sqm	38		
46	Providing and fixing 15micron colour anodised aluminium work for windows, ventilators made with extruded built up standard tubular section / appropriate Z section and other sections of approved make conforming to IS: 733 and IS : 1285 fixed with dash fasteners of required dia and size, including necessary filling up the gaps at junctions i.e. at top, bottom and sides with silicone sealant with approved EPDM gasket. Aluminium snap beading for glazing/ panelling, C.P. brass/ stainless steel screws, all accessories etc. complete as per architectural drawings including fixing of glass. Alluminium fabricator shall be a reputed fabricator and to be got approved from E.I.C. including all fitting and fixture like handel, locking agreement etc. At any level.				
a	Sliding window (two tract) fixed with 5 mm thick clear glass.	Sqm	13.5		
b	Sliding window (three tract) fixed with 5 mm thick clear glass.	Sqm	52		
c	Fixed glass louver with 5 mm thick clear glass.	Sqm	2		
d	Partly fixed & partly glass louver fixed with 4 mm thick frosted glass.	Sqm	6		
e	Full glass double leaf door fixed with 8 mm thick glass.	Sqm	8.4		
47	Providing and fixing 50mm thick, one hour fire resistant rating insulated wooden fire floor, door shutter (single leaf) with frame including heat activated seal, in fill insulating materials and fire resistant coating, TAC approved and commercial Veneering and conforming to relevant Indian Standards complete with all necessary and required fittings and fixtures as per drawing, design and direction of Architect/ E.I.C.	Sqm	4.2		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
48	Collapsible gate with 40 mm x 40 mm x 6 mm tee as top and bottom guide rail 20 mm x 10 mm x 2 mm vertical channels 100 mm apart in fully stretched position 20 mm x 5 mm M.S. flats as collapsible bracings properly rivetted and washered including 38 mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damageless complete.	Sqm	10		
49	M.S. Ornamental grill of approved design joints continuously welded with M.S Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugsetc. Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr.	Kg	1636		
50	Supplying, fitting & fixing teak wood hand railing over stair railing / balustrade as per drawing with necessary fixtures, complete including polishing as per direction of architect / E.I.C.	Cum	0.25		
51	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 )				
	40 x 6 x 125 mm	Each	294		
52	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complet.				
a	125 x 64 x 1.90 mm	Each	78		
b	100 x 58 x 1.90 mm	Each	72		
53	Providing and fixing stainless steel tower bolts with necessary screws etc. complete.				
a	200 x 10 mm	Each	21		
b	150 x 10 mm	Each	49		
54	Providing and fixing stainless steel sliding bolts with necessary screws etc. complete.				
a	300 mm long and 16 mm dia.	Each	2		
b	250 mm long and 12 mm dia.	Each	2		
55	Providing and fixing stainless steel handle with necessary screws etc. complete.				
a	125 mm long	Each	49		
b	150 mm long	Each	26		
56	Providing and fixing stainless steel hanging type floor door stopper with necessary screws etc. complete.	Each	28		
57	Providing and fixing of PVC door buffer.	Each	49		
<b>PART-'B': TOTAL CARRIED TO GENERAL SUMMARY</b>					
<b>PART-'C' INTERNAL AND EXTERNAL SANITARY &amp; PLUMBING WORKS</b>					



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
1	Supplying, fitting and fixing white glazed vitreous chinaware EPWC / Floor mounted wall hung with Cistern, flush pipe etc. approved make supplied, fitted and fixed complete in position with seat & lid. Size 675x435x735 mm	Nos.	15		
2	Supplying, fitting and fixing Orissa pattern water closet 580mm x 440 mm size with cistern complete with cement concrete complete	Nos.	2		
3	Supplying fitting & fixing white vitreous china Wash Basin with C.P. waste, long threads. etc. complete in all respects. (Size 550mm X 400mm)	Nos.	12		
4	Supplying fitting and fixing white vitreous large type Urinal with C.P. waste grating angular stop cock, spreader, connector, with brass screws, PVC waste pipe with coupling complete in all respect. (590mm X 390mm x 380mm).	Nos.	10		
5	Supplying fitting and fixing urinal Partion Wall. (Porcelain) (Size 618mm X 310mm)	Nos.	7		
6	15 dia C.P. heavy Pillar cock	Nos.	12		
7	Supplying, fitting & fixing C.P Health faucet [Hand shower] with flexible tube [1mtr long] with wall hook etc. complete in all respects.	Nos.	17		
8	Supplying, fitting and fixing C.P. two in one Bib Cock of approved make and brand tested to 21 kg. Per sq.cm. 15mm.	Nos.	17		
9	Supplying, fitting and fixing C.P. Angular Stop Cock of approved make complete in all respect.	Nos.	36		
10	Supplying, fitting and fixing C.P. Bottle Trap. 32mm. dia. etc. complete in all respects.	Set	12		
11	Supplying, fitting and fixing Liquid Soap holder / Dish with C.P. brass screws etc. complete in all respect.	Nos.	12		
12	Supplying, fitting and fixing Towel Rail with two brackets 25mm dia. C.P. on brass 450mm. long of approved make with C.P. brass screws complete.	Nos.	8		
13	Supplying, fitting and fixing C.P Soap dispenser with glass bottle with approved make.	Nos.	8		
14	Supplying, fitting and fixing C.P. Robe hook with approved make.	Nos.	25		
15	Supplying, fitting and fixing C.P. Towel ring with approved make.	Nos.	4		
16	Supplying, fitting and fixing C.P. Connector of approved make complete in all respect. 600mm long.	Nos.	36		
17	Supplying, fitting and fixing cement joint brass on C.P. grating of approved make complete in all respect. 125 mm dia (cockroch type)	Nos.	35		
18	Supplying, fitting and fixiang C.P. long body bib cock.	Sets	2		





**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT  
MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE,WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
19	Supplying, fitting and fixing stainless steel sink without drain board with waste including C.I. Brackets on 75mm.x 75mm. wooden blocks with brass screws etc. complete in all respects (size 630mm x 550mm. x 180mm).	Each	1		
20	Supplying, fitting & fixing 25mm/32mm dia. ball cock with polythene ball for O.H. Tank etc. complete in all respects.	Each	1		
21	Supplying fitting & fixing Bevelled Edge Mirror 5.5mm thick silver red as per IS 3438/1965 together with brass C.P.hinges. Including approved backing wooden board complete in all respects.	Sqm	8		
22	Supplying, fitting and fixing G.I. Waste Pipe for (basin, urinal, bath tub and sink) with C.I. specials with (concealed) cutting floor and wall and chasing floor as per drawing and direction G.I. waste pipe for basin, complete in all respects. (Each length 2000mm. from bottle trap waste to floor trap. (TATA make 'M' class).				
	32mm/40mm. dia.	Nos.	21		
23	S. I. T. & C. in position Chlorinated Polyvinyl Chloride (CPVC) SDR-11 pipes as per ASTM D-2846 standard, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including concealing the pipes in walls or under floors, including making chases in the walls, fixing in the wall with M.S. clamps and making good the wall surface fixing the pipe with support clamps at 1.00 m spacing. Includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints at pressure 10Kg.Cm <sup>2</sup> , etc. complete as per direction by our Architects (work within toilet)				
a	15 mm nominal outer dia Pipes	Mtr.	88		
b	20 mm nominal outer dia Pipes	Mtr.	44		
c	25 mm nominal outer dia Pipes	Mtr.	47		
d	32 mm nominal outer dia Pipes	Mtr.	6		
e	40 mm nominal outer dia Pipes	Mtr.	30		
24	Supply, Laying SITC in position Unplasticised PVC pipes conforming to IS : 13592 - 1992, Type - B, SWR quality, along with fittings like bends, couplers, cleanouts with rubber ring joints / solvent cement joint.M.S. brackets or clamps support at every 2m so as to keep the pipes away from the wall including all scaffolding, water testing after laying the pipes as specified and painting etc complete. Routing of pipes show in drawings is only indicative.The contractor to consider all the required number of fittings to do piping for smooth and efficient flow of sewage all complete as per direction by our Architects				
24.1	110 mm dia	Mtr	105		
24.2	75 mm dia	Mtr	105		
25	Supplying, fitting and fixing M.S. hanger/ hook/clamp as per instruction for CPVC pipe /U. P.V.C. pipe with grouting in wall and floor and repairing the same as per instruction complete in all respects ( each 3 kg. weight).	Kg	25		



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL				RATE	AMOUNT
No	DESCRIPTION	UNIT	QNT	Rs. P.	Rs. P.
26	Supplying, fitting and fixing Peet's / Gate valve fullway gunmetal standard pattern best quality of approved brand bearing I.S.I. Marking with fittings (tested to 21 Kg.per sq.cm.),(Leader or any other approved similar).				
a	20mm. dia.	No	1		
b	25mm. dia.	No	1		
c	32mm. dia.	Nos	2		
d	40mm. dia.	Nos	4		
27	Supplying, laying & jointing S.W. pipe Grade "A" in pipe trenches to required depth and adequate width of trench including earth work in excavation and stacking of earth at convenient location (as per instruction of Engineer-in-Charge) complete 150mm thick bed concrete (PCC - 1:3:6) and all round pipe 75mm thick as per approved drawing. Pipes are to be laid in straight aligned lengths to correct line and level with sight rails and boning rods. Pipes shall be tested in as laid condition but before pouring surrounding concrete. Concreting shall be done in dry condition of trench by dewatering. After concreting back filling the trenches in layers of 150mm. depth with selected back fill materials and consolidating by manual ramming, dewatering etc. and disposing surplus earth, hard soil, laterite etc. as directed upto a lead of 500m. only Concrete work to be paid separately ( For sewer line and drainage line)				
	150mm. dia. (upto 1.5m. depth from F.G.L.)	Mtr.	150		
28	S.W.Yard Gully 225mm X 150mm including chamber pit 450mm x 450mm upto 600mm deep with approved C.I. 38 Kg weight road type grating fixed with R.C.C. slab complete.	Nos.	8		
29	Constructing brick masonry Manholes with bricks in cement mortar 1:4 @ 150mm (1 cement :4 coarse sand) RCC top slab 150mm. thick with reinforcement bars 8mm. c/c both ways with mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20m. nominal size), foundation concrete 200mm. thick 1:4:8 mix (1 cement : 4 coarse sand: 8 graded stone aggregate 40mm. nominal size) outside inside plastering 12mm. thick with cement mortar with water approved water proofing compound 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and finished including 12mm 4 graded stone aggregate 20mm. nominal size), neatly thick external plaster				
	out side wall upto 500mm deep from cover level with cement mortar 1:6 ( 1 cement:6 fine sand) completely as per standard design including excavation, dewatering if any, shuttering, shoring, refilling and disposal f surplus earth within plot complete as per specifications and drawings.				
	Inside size 45cm x 45cm. and upto 600 cm. deep including CI cover /CI grating /Road type grating thick brick work total weight of grating cover and frame to be not less than 38 Kgs. including M.S. foot rest as per instruction.	Nos.	20		
	<b>NOTE :</b>				
	Type of cover and M.S. rung to be mension in drawing. (cost of M.S. rung to be considered in above rates (position of M.S. Rung, I.P., Manhole & for U.G./O.H water reservoir).				





**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
30	Providing and laying concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 112.5mm. and down) for Bed Concrete for pipe line, including 75mm. thick all round concrete on pipe or henching and concrete chair as per drawing and direction.(For S.W. pipe).	Cum.	10		
31	Construction of septic tank 50 users capacity as per approved drawing.	No	1		
32	Construction of Soak Well Etc. complete in all respects.	No	1		
33	Construction of chlorination chamber as per drawing & direction. Size 900mm x 1500mm.	No	1		
<b>PART-'C': TOTAL CARRIED TO GENERAL SUMMARY</b>					
<b>PART-'D': SITE DEVELOPMENT,ROADS,ETC.WORK</b>					
	FOR DEVELOPMENT OF LAND INCLUDING LEVELLING AND GRADING, PROVISION OF ROADS,PATH WAYS, PARKING, LANDSCAPING AND ALLIED WORKS				
1	Earth work in filling in compound, tank, low land, ditches etc. with good earth, in layers not exceeding 150 mm. including breaking clods and consolidating the same by ramming and dressing complete. (Payment will be made on profile measurement before and after the work)				
	With carried earth arranged by the contractor within a radius exceeding 5 km, but not exceeding 10 km, including cost of carried earth.	Cum	250		
2	Box cutting or filling in road embankment in all sorts of soil including spreading the spoils properly and rooling the sub-grade with power roller to proper camber and grade as per direction and satisfaction of E.I.C.				
a	Depth up to 150 mm.	Sqm.	82		
b	For each additional depth of 150 mm and part thereof.	Sqm.	122		
3	Supplying, spreading and compacting fiend 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 desired compaction, 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. (The payment is to be made on the basis of the finished compacted volume.)	Cum	50		
4	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing. (As per clause 601 of specifications for Road & Bridge Works of MoRT & H /5th.Revision)	Cum	80		



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE,WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
5	Providing and laying Controlled cement concrete grade M-25 mix with well graded stone chips excluding shuttering and reinforcement with complete design of concrete mix as per I.S.I. Codes and relevant special publication submission of job mix formula after preliminary mix design after testing of concrete cube as per direction of the Engineer-in-charges. Consumption of cement will not be less than 350 kg. per cum. of controlled concrete but will be determined on the basis of preliminary test job mix formula.	Cum	60		
6	Supplying and laying 120 micron thick polythene sheet on prepared surface of PCC base course, overlapping of polysheets minimum 100 mm laid wrinkle free complete as specified and directed by E.I.C.	Sqm.	390		
7	Supplying and laying 60 mm thick coloured interlocking paver blocks of M-30 grade factory made laid over 50mm thick uniform layer of silver sand bed on PCC / WBM surface completed in level, slope etc. as shown drawing and joints filled with fine sand.	Sqm.	150		
8	Supplying and laying 25 mm thick tiles as per IS: 1237-2012 for road / pavement laid over 25 mm thick cement sand mortar (1:3) and cement slurry @ 4.4 kg / Sqm at back site of the tiles on concrete base, joint duly sealed with grouting material as recommended by manufactureer complete all as direction by E.I.C.	Sqm	60		
9	Edging with 2nd class bricks, laid dry lengthwise, including excavation, refilling, consolidation, with a hand packing and spreading nearly surplus earth within a lead of 50 metres	RM	250		
<b>PART-D: TOTAL CARRIED TO GENERAL SUMMARY</b>					
<b>PART-E: ELECTRICAL WORK</b>					
<b>A - POWER DISTRIBUTION WORK :</b>					
1	Supplying and fixing 415V, 315A, TPN SFU with sheet steel enclosure on flat iron/angle iron frame on wall with nuts bolts etc incl. S & F 3 nos. DIN type HRC fuse as per rating.	1	Set		
2. a)	Supply at site the 14 SWG MS Sheet metal fabricated free standing on floor Main LT Distribution Panel Board based on the ISMC - 75 Channel, to be of size not over 1750mm (Length) x 1500mm (Ht.) x 350mm (Depth). The Panel Board Would be completed with the Cable Alleys at both side, Bus Alley and powder coat painting 'Siemens Grey' and also by the all sorts of internal wiring by the PVC insulated 'FR', 1100V Grade Copper Wires incl. finishing their every ends by suitable size tinned copper socket (of Dowell's make) and PVC insulating tapes. The panel Bord will be containing the following electrical switching / Measuring / Indicating & Current Bussing accessories. Referring the 'SLD' for the same :-				
A)	<b>Switching Accessories : All 'L&amp;T' Make.</b> Following all the MCCB, by Thermal Magnetic and Adjustable / Fixed OL - Range as undementioned and complete with the direct rotary handle, Auxiliary and trip Alarm Contact & Spreader Terminal as per following mention :-				





**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE,WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
	i) 250A (200 - 250) A, 4 Pole, 415V, Br. Cap. 50 KA as Incomer, (Type DN2 - 250N) - 1 Set.				
	ii) 160A Fixed OL, 3 Pole, 415V, Br. Cap. 50 KA as outgoing Fdr., (Type DN 1 - 160 M) - 1 Set				
	iii) 125A (100 - 125)A, 4 Pole, 415 V, Br. Cap 30 KA as outgoing (3 sets) & spare (1 set) - 4 Sets				
	(Type DU125H) With 415V AC Shunt Trip Release - 4 Sets.				
<b>B)</b>	<b>Change Over Switch :</b>				
	i) 'L&T' make, 125A / 415V, 4-Pole ON-LOAD centre OFF open executed Switch - 1 Set.				
<b>C)</b>	<b>Measuring, Indicating &amp; Alarming &amp; Allied Accessories :</b>				
	i) 'L&T' make (96 x 96) Sqmm. Digital Ammeter 3Ph, Cl.1.0 (1 xxx Series) (Sel Switch - 2 Sets in built)				
	ii) 'L&T' make (96 x 96) Sqmm Digital Voltmeter 3Ph, Cl.1.0 (1 XXX Series) (Sel Switch inbuilt) - 2 Sets				
	iii) Kappa / AE Make CT, Cl.1.0, 5.0VA each by				
	a) Set of 3 X 100/5A - 1 Set				
	b) Set of 3 X 100/5A - 1 Set.				
	iv) 'L&T' make, 6A, SP-C MCB Br. Cap. 10KA as the back up protection against 2 nos. Voltmeter @ 3 nos. Per Voltmeter X 2 - 6 Nos.				
	v) Set of 'Vaishno' make Buzzer (96 X 96) Sq.mm., 240V AC with 'L&T' make Push Button 'Yellow' Actuator & '1NO' element all in a set - 1 Set.				
	vi) Set of 'L&T' Make Control / Auxiliary Contactor of '2NO + 2NC' Contact of 240V AC operated, Type : MX022E - 1 Set.				
	vii) Set of 'L&T' make, 240V AC operated LED Indicating Lamp, in total quantity Red - 9 nos ; Yellow - 2 nos.; Blue - 2 nos. ; Green - 6 nos. & Amber - 6 nos.				
<b>D)</b>	<b>BUSBAR ; 350 A/Ph. Capacity by 4 x (40 x 5) Sq.mm. Tinned Copper Flat as main Busbar on DMC / SMC Insulator of appropriate length - 1 set.</b>				
<b>E)</b>	<b>EARTH BUSBAR ; Continuous run of hot dip GI Flat by (32 X 3) Sq.mm. or equivalent cross section - 1set</b>				
	(Complete item of works as above and all in a set)	1	Set		
<b>2b</b>	Installation of above LT Panel Board above the pre-constructed masonry trench inside the Electrical Room by S&F MS long threaded Nut Bolt & Washer, etc. Incl. Testing for commissioning of the unit (Complete item of work)	1	Set		
<b>3.a</b>	Supplying and fixing double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment as per approved Vendor make				



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE,WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
	6 - Way Board	6	Set		
3.b	Supplying and fixing 240/415 V 63A-FP MCB Isolator on din rail of existing DBs and necessary connection as per approved Vendor make and same make to that of DB - Enclosure.	6	Set		
3.c	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection as per approved Vendor make and same make to that of DB-Enclosure as per following rating : 6 X 10A, 6 X 16A & 6 X 20A = 18 nos. / DB X 6 Set.	108	Each		
4.a	Supplying and fixing (2+8) Way double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment as per approved make.	6	Set		
4.b	Supplying and fixing 240 V DP MCB Isolator, 40A on din rail of existing DBs and necessary connection to be of same make of DB.	6	Set		
4.c	Supplying and fixing 240 V SP MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection 6/ 10A to be of same make of DB to the above DB.	48	No		
5.a	Supplying and fixing double door Vertical TPN MCB Distribution board for MCCB incomer with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment as per approved Vendor make list 6 - Way upto 160A	2	Set		
5.b	Supplying and fixing 415 V 100A Four Pole MCCB of Breaking capacity 25kA/35kA with adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection as per approved Vendor make and same make to that of the DB - Enclosure	2	Set		
5.c	Supplying and fixing 415 V, 3 X25 & 3X32A, TP-C MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection as per approved Vendor make and same make to the DB @ 6 nos / Brd X 2 = 12 Nos.	12	Each		
6	Supplying and fixing double door sheet steel (16SWG), powder coated cable end box for TPN DB horizontal / vertical enclosure with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish with nuts bolts etc incl. provision for earthing attachment @ 2 sets / VTPN - BDB both top & bottom X BDB = 4 Sets both at Stair Case wall of Ground Floor.	4	Set		
7	Supply at site the undermentioned XLPE / Armoured -Al. Conductor Cable of 1100 V Grade of approved make:				
	i) 4C - 120 Sq.mm.	12	Mtr		
	ii) 3.5C - 95 Sq.mm	70	Mtr		
	iii) 4C - 70 Sq.mm	80	Mtr		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
8	Laying of the above Cable by the following Way :				
a	Laying of cable above 3½ core 90 sqmm and upto 3½ core 150 sqmm on wall/surface including S & F MS clams with earthing attachment in 2 x 10 SWG GI (Hot Dip) Wire, making hole etc. as necy., mending good damages and painting	11	Mtr.		
b	Laying Through UG Trench :				
i	Laying of one No. cable above 35 sqmm and upto 185 sqmm in underground trench 460mm wide x 760mm average depth, with brick protection on the top of the cable with 8 (eight) Nos. bricks per Mtr. including filling the space between the bricks and cable and also the trench with shifted soil, leveling up and restoring surface duly rammed For - i) 1x3.5C - 95 Sq.mm. - 57 mtr. ii) 1 x 4C - 70 Sq. mm. - 70 mtr. in different trenches 127 mtr.	127	Mtr		
ii	Laying of one No. cable upto 35 sqmm in underground trench 460 mm 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 in different trenches for 4C - 6 Sq.mm.	352	Mtr		
c	Laying Through Floor / Wall :				
	Laying of cable, 4C-50 Sq.mm after cutting floor/pavement/wall/ and making holes incl., embedding the cable at an average depth as below and mending good the damages to original finish incl. removing the rubbish at an average in floor / wall etc. through the prelaid GI Protection Pipe average 4 mtrs / run x 2 runs = 8 mtrs.	8	Mtr		
9	GI Pipe Protection :				
	Supplying & fixing medium gauge GI Pipe ( ISI-Medium) Protection with necessary fittings and jointing materials as required				
i	65 mm dia for 3.5C - 95 Sq.mm. Cable both at Line & Load end average 1.5 mtr/end x 2 = 3.0 Mtr.	3	Mtr		
ii	50 mm dia for 4C - 70 Sq.mm. cable both at Line & Load end average 5 Mtrs / end x 2 = 10 Mtrs.	10	Mtr		
10. a.	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 :				
i	4C - 120 Sq.mm.	4	Set		
ii	3.5C - 95 Sq.mm.	2	Set		
iii	4C - 70 Sq.mm.	4	Set		
iv	4C - 6 Sq.mm.	30	Set		
10. b.	Finishing the end of above XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials :				



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
i	4C - 120 Sq.mm.	4	Set		
ii	3.5C - 95 Sq.mm.	2	Set		
iii	4C - 70 Sq.mm.	4	Set		
iv	4C - 6 Sq.mm.	30	Set		
11	Supplying and fixing polythene pipe complete with fittings as necy. under ceiling/beam, bound with 22 SWG GI binding wire incl. supplying and drawing 1x18 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 fastened at the load point end of the polythene pipe with fish wire (synchronizing with roof/beam casting work of building construction)				
a	25 mm dia 3 mm thick Polythene Pipe (for TPN - BDB, from the end of the VTPN - BDB ; average 20 mtrs per floor run X 2 floors = 40 Mtrs.	40	Mtr		
b	19mm dia 3 mm thick Polythene Pipe from the TPN-BDB to SPN - BDB and also to the proposed position of the General Power Plug & Computer Power Plugs, average 180 mtrs./floor x 2 floors = 360 mtrs.	360	Mtr		
12	Cutting Channel of following size on the masonry wall				
a	(43 mm X 43 mm) Channel for 25 mm dia Polythene Pipe without Earth Continuty Wire average 1.5 mtrs / run X 2 runs = 3 mtrs.	3	Mtr		
b	(40 mm x 40 mm) channel for 19 mm dia Polythene Pipe without earth Continuty wire average 1.5 mtrs / run x 24 runs / floor X 2 Floor	72	Mtr		
13	Supplying & Fixing sheet metal inspection box (16 SWG) of the following sizes flushed in wall by housing the same after cutting brick wall incl. making earthing attachment, painting and mending good damages to building works, size 200 mm X 150 mm X 65 mm	65	Each		
14	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC Insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in the prelaid polythene pipe and by the prelaid GI fish wire and making necy. connection as required				
a	By (4 X 1C - 6 + 2 X 1C - 4) Sqmm. Wires from the end of the VTPN-BDB and upto the TPN - BDB (incl. the extra length of the wires) for keeping the length inside the Switch Board and the BDB (average 13 mtrs / runs X 6 runs = 78 mtrs)	78	Mtr		
b	By (2X1C - 4 + 2 X 1C - 2.5) Sqmm. Wires, from the end of the TPN-BDB & upto the AC M/C P/Plug via the starters SPN-BDB and also average 20mtrs /run X 14 runs incl. the extra length of the wires for keeping inside the TPN & SPN BDB's & also inside the Starters etc.	280	Mtr		





**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
c	By (2X1C - 2.5 + 1X1C-1.5) Sqmm. Wires from the end of the TPN-BDB and upto the General Power & Computers Plug Boards by extension of runs from one comp. Plug board to another as per direction, average 16 mtrs/run X 40run)	640	Mtr		
15	Finishing of the PVC insulated wire ends by socketting with pin/ring type copper sockets and insulated tapes etc., including supplying sockets, tapes.				
i	6 Sqmm.	48	Each		
ii	4 Sqmm.	60	Each		
iii	2.5 Sqmm.	98	Each		
B	<b>INSTALLATION OF THE ELECTRICAL UTILITIES ( FITTINGS SUPPLY BY THE BANK), SUPPLY AND INSTALLATION GENERAL &amp; COMPUTER PURPOSE POWER PLUGS, AC-M/C STARTERS ETC.</b>				
16	Supply at site under the original Packed Condition the 'Philips' make LED Luminaries compl. With all the relevant accessories and Lamps conforming the following Model/Cat. No., etc.				
a	Twin 18 Watt/4ft. Long 'LED' Tube Luminaire, Cat. No. - " TMC 501P2XT-LED 22 W P3242" with LED Tube Lamps, Model No. "MAS LED Tube 1200 mm 18W 865 T81 (both in a set).	50	Set		
b	Single 18 Watt / 4ft. Long 'LED' Tube Luminaire, Cat. No. "TMC 501 P1XT-LED 22W P3241" with LED Tube Lamp, Model No. - "MAS LED Tube 1200 mm 18W 865 T8 1" (both in a set).	39	Set		
c	15 Watt Surface Mounted 'LED' Squared Luminaire, Type 'SM200C LED 15S 4000 PSU OD WH'.	33	Set		
d	10 Watt Surface Mounted 'LED' Squared Luminaire Type 'DN097B LED 10S - 6500 PSU WH'.	27	Set		
e	20 Watt Recessed 'LED' Down Lighter Type 'DN195B LED 20S - 6500 PSU WH S1'	40	Set		
f	10 Watt, Surface/Suspend Mounted 'LED' Batten Luminaire, Type : 'BNO21 LED10S - 4000 PSU SRS1'.	11	Set		
g	72 Watt 'LED' Street Lighting Luminaire, Type : 'BRP410 LED CW 072 MR FG S1 PSU GR'.	19	Set		
h	88 Watt 'LED' Street Lighting Luminaire, Type: 'BRP 410 LED 088 CW HE NR PC s2 PSU GR'.	13	Set		
i	25 Watt 'LED' Post Top Luminaire, Type: 'BG P161 LED 2500/NW PSU 220-240V 7043 IN'.	2	Set		
17	Supply at site under the original packed condition the 48 inch (=1200mm) Sweep 240V AC operated, 3 bladed ceiling Fan Compl. With all the relevant accessories except the Regulator, Make: 'USHA' Model Name 'ALLure Plug' or equivalent, ORIENT make, Model Name 'Deluxe', (Colour - White).	52	Set		



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
18	Supply at site under the original packed condition the following make & size (by Sweep) AC High Speed Exhaust Fan, compl. With all the relevant components.				
a	12 inch (=300mm) Sweep : (Colour-Grey) 'USHA' make, model name : 'Turbo LD DBB' (or equivalent 'Orient' make, model name: 'Power Flow').	1	Set		
b	9 inch (=225mm) Sweep : (Colour - Grey) 'USHA' make, Model Name: 'Turbo LD Jet Dir' (or equivalent 'Orient make, Model Name: 'Hi-Speed').	17	Set		
19	Supply at site under the original packed condition, the following make & model, 16 inch (=400mm) Sweep, White Colour Wall Bracket Fan, Cord operated, Make - 'USHA' ; Model - 'Striker High Speed' or equivalent Make of Orient, Model - 'Wall - 47 - High Speed'.	19	Set		
20	Installation of the above supplied electrical utilities by the undermentioned way as per the electrical Layout or as per the direction of the Eng.-in-Charge :-				
a					
	i) Twin Set :				
	Ground Floor - 36 Sets & 1st Floor - 14 Sets.				
	ii) Single Set:				
	Ground Floor-0Set & 1st Floor - 35 Sets (Total 85 Sts)	85	Set		
b					
	i) Stair Case of the Administrative Building - 2 sets				
	ii) Electrical Meter Room - 2 Sets	4	Set		
c	The 15 & 10 Watt Surface Mounted LED squared Luminaire directly on the ceiling by S&F MS Screws.				
	i) 15 Watt LED				
	Gr. Flr.-9 sets + 1st Flr. 24 sets = 33 sets				
	ii) 10 Watt LED				
	Gr. Flr.-9 sets + 1st Flr. 18 sets = 27 sets				
	Total - 60 Sets	60	Set		
d	The 10 Watt LED Surface/Suspended Luminaire directly on the Wall of the Toilet Block of Ground Floor only.	11	Set		
e	Fixing only the 48 inch ceiling fan by fixing complete with blades, canopy, fork, rubber bush etc. incl. S&F connecting wire for down rod upto 30 cm incl. painting the rod with approved paint and making necessary connection as required by 2x1.5 sqmm flexible copper wire.	52	Nos		
f	Fixing only the exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter:				
i	For 9 inch (=230mm) Sweep Fan.				
	Gr. Floor - 7 Nos. & 1st Flr. - 11 nos. = 18 nos.	18	Nos		
ii	For 12 inch (=300mm) Sweep Fan				
	Gr. Flr. - 0 no. & 1st Flr. - 1 no.	1	Nos		





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SL				RATE	AMOUNT
No	DESCRIPTION	UNIT	QNT	Rs. P.	Rs. P.
g	Fixing only the wall fan on the wall by S&F rag bolts, nuts & washers (6 mm dia x 62 mm long) or as reqd. incl. S&F 24/0.20 PVC insulated flexible copper wire 0.5 mt. length				
	Gr. Flr.- 19 nos. + 1st Flr.-0 no. = 19 Nos.	19	Nos		
21	Supply & Fixing 240V, Modular Socket (2 Module) type fan regulator (Step type) (Brand approved by EIC) on the all existing and respective(as per layout or as per instruction) Modular GI switch board with top cover plate incl. making necy. connections etc.	52	Set		
22	Supplying & Fixing GI Modular Switch Board of the following sizes complete with top cover plate flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works (as per approved Vendor List)				
a	2 Module -Gr. Flr.- 43 sets + 1st Flr.- 27 sets = 70 sets	70	Set		
b	4 Module - Gr. Flr. - 22 sets + 1st flr. - 9 sets = 31 sets	31	Set		
c	8 Module - Gr. Flr. - 17 sets + 1st flr. - 9 sets = 26 sets	26	Set		
23	Supply & Fixing 240 V, 25A Modular starter (Brand approved by EIC) on existing GI Modular type switch board with top cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	16	Set		
24	Supply & Fixing 240 V, 25 A, 3 pin Modular type plug socket (Brand out of Vendor List approved by EIC), without plug top and switch with 2 Module GI Modular type switch board with top cover plate flushed in wall and making necy. connections with PVC Cu wire and earth continuity wire etc.	16	Set		
25	Supply & Fixing 240 V,25 A, 3 pin Modular type plug top with indicator to be of same Brand as that of Plug Socket in the above item and making the necessary connection with the cord of the AC M/C.	16	Set		
26	Supply & Fixing RJ45 suitable for CAT6 Cable (same brand that of Modular Switch Board) and Top Cover Plate on the above existing Mod. Switch Board and making the necessary connection as required for				
	Gr. Flr. - 14 sets + 1st Flr. - 16 sets = 30 sets.	30	Set		
27	Supply & Fixing Telephone socket (RJ11) Modular type (Brand approved by EIC) with PVC board and top cover plate on wall and making necessary connections & testing as required for				
	Gr. Flr. - 7 sets + 1st Flr. - 6 sets = 13 sets.	13	Set		
28	Supply & Fixing TV Socket suitable for Co-Axial TV Cable on the above 2M Board as per direction or as per layout inclusive making the necessary connection for				
	Gr. Flr. - 6 sets + 1st Flr. - 5 sets = 11 sets.	11	Set		
29. a.	Supplying & Fixing 240 V AC/DC superior type Ding-Dong Call Bell (Anchor) on HW board incl. S&F HW board one each on the entrance wall of Principal Room & Faculty Room	2	Set		
29. b.	Supply & Fixing 0.5 Watt/240V LED Coloured (Blue or Amber) Bulbs in the existing batten holder meant for night camp in the Dormitory, 1st Floor . (Make PHILIPS / CGL)	8	Nos		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
C	<b>CIRCUIT &amp; DISTRIBUTION WIRING OF POINTS &amp; ALLIED WORKS :</b>				
30	Supply & Fixing 19mm dia 3mm thick Polythene Pipe complete with fittings as necy. under ceiling/beam, bound with 22 SWG GI binding wire incl. supplying and drawing 1x18 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 fastened at the load point end of the polythene pipe with fish wire (synchronizing with roof/beam casting work of building construction) for all the wires, proposed for the general plug boards, 'LAN', TV & Telephone points.	650	Rm		
31	Cutting channel of 40 mm x 40 mm size on masonry wall incl. S&F heavy gauge polythene pipe 19 mm dia 3 mm thick polythene pipe without earth continuity wire, by means of iron hooks and supplying and drawing 18 SWG GI Wire as fish wire incl. mending good damages to building works for the vertical extension of the aforesaid Wires as per I/No.-1.	260	Mtrs		
32	Supplying & Fixing CRC sheet metal (16 SWG) JB-cum- Switch Board of the 175 mm x 100 mm x 65 mm complete with three no. suitable size Copper bar with holes (for Ph, N & E) fixed on bakelite/Hard Rubber insulator over the MS welded chairs incl. bakelite/Perspex/coloured Perspex (wall matching colour) top cover 3 mm thick flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works	42	Nos		
33	Making Channel on R.C.C. Casting/Floor, 40mm depth X 40 mm Width and S & Drawing 19 mm OD thin flexible PVC Pipe.	12	Mtrs		
34	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC Insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in the prelaidd polythene pipe and by the prelaidd GI fish wire and making necy. connection as required, all from the end of the respective TPN-BDB and considering the extra run of the wires at both Line and Load end.				
a	2 X 1C - 4+ 1 X 1C - 205 Sq. mm Wires, upto the 25A Plug Socket via the AC M/C Starter (average 16 mtrs/run X 16 runs) = 256 mtrs	256	Mtrs		
b	i) 2x1c-2.5+1x1c-15 Sq.mm. Wires, upto the General Power Plug Boards, both at the Ground and 1st floor, (average 12mtrs/run x 31 runs) = 372 mtrs (+) (Gr. Floor - 22 runs & 1st Floor - 9 runs, Total - 31 runs ii) (2x1C - 2.5 + 1X1C-1.5) Sq.mm. Wires, upto the Computer's Plug Board (as Primary Run at Ground floor - 9 runs) average- 15 mtrs/run x 9runs = 135 mtrs Total - (372 + 135) = 507 mtrs.	507	Mtrs		
c	(3X1C - 1.5) Sq.mm. Wires, extended from the above board and to adjacent another Board in the same room, under the same circuit average 13 mtrs/run X 8 run = 104 mtrs.	104	Mtrs		
35	Finishing of the above PVC Insulated Wire ends by socketing with Pin/Ring type Copper Sockets and insulated tapes etc. incl. Supplying Socket, tapes, for				
a	4 Sq. mm.	128	No		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
b	2.5 Sq.mm.	224	No		
36	<u>DISTRIBUTION WIRING :</u>				
	Distrn. wiring in 1.5 sqmm single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) in 19 mm bore, 3 mm thick polythen pipe complete with all accessories embedded in wall to light/fan/call bell points with Modular type switch (Brand approved by EIC) fixed on Modular GI switch board with top cover plate flushed in wall incl. mending good damages to original finish for the following mentioned Points under the average run of 7.0 mtr./Pt. for				
a	<u>All the Surface Mounted Points :</u> Gr. Flr. - 74 + 1st Flr. -99, Total -173 Pts. (+)				
b	<u>All the Ceiling Fan:</u> Gr. Flr. - 36 + 1st Flr. -26, Total - 62 Pts. (+)				
c	<u>All the Wall Fans :</u> Gr. Flr. - 19 + 1st Flr. - Nil, Total - 19 Pts. (+)				
d	<u>All the Exhaust Fans :</u> Gr. Flr. - 07 + 1st Flr. - 11, Total - 18 Pts. (+)				
e	<u>Call Bell Point :</u> Total - 1 Pt.				
	<b>Net Total Points = 273 Pts.</b>	273	Pt.		
37	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) partly in 20mm size PVC rigid conduit 'FR' (Precision make) [for ceiling portion only] and in 19mm bore, 3mm thick polythene pipe [for horizontal & vertical run embedded in wall], with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Modular type switch (Brand approved by EIC) fixed on Modular GI switch board complete with 2 no. suitable size "Ph & N" copper bar with top cover plate making earthing attachment fixed on wall incl. mending good damages to original finish. [only PVC Rigid Conduit on ceiling and remaining portion concealed] for the Ceiling Recessed Luminaire at Gr. Floor average run 9.0 mtrs/pt.	40	Pt.		
38	Distrn. wiring in 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) in 19 mm bore, 3 mm thick polythen pipe complete with all accessories embedded in wall to 240 V 6A 5 pin plug point incl. S&F 240 V 6A 3 pin Modular type plug socket & Modular type switch (Brand approved by EIC) incl. S&F earth continuity wire, fixed on 4 Module GI switch board with 3/4 Module top cover plate flushed in wall incl. mending good damages to original finish				
a	<u>On the respective Switch Board :</u> Gr. Flr. - 20 Sets (+), 1st Flr. - 10sets ; Total - 30 Sets	30	Set		
b	<u>Away From the Room's Sw. Brd. i.e. on separate Sw. Brd.</u> Average run 3.0 mtrs/pt (or Set) Gr. Flr. - 21Sets (+), 1st Flr. - 20sets ; Total - 41 Sets	41	Set		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
39. a.	Supplying & Drawing LAN cable (CAT6) (Brand approved by EIC) in prelaid PVC rigid conduit/ in polythene pipe embeded in wall.	80	Rm		
39. b.	Supplying & Drawing 2-pair Telephone cables with high density polyethylene insulated solid annealed high conductivity bare copper of dia 0.5mm in prelaid PVC rigid conduit/ in polythene pipe embeded in wall.	120	Rm		
<b>D</b>	<b>SUPPLY &amp; INSTALLATION OF DRINKING CUM WORKING WATER PUMP MOTOR &amp; ALLIED WORKS :</b>				
40. a.	Supply at site, 'CGL' (Crompton Greaves Ltd.) make "OPENWELL SUBMERCIBLE MONOSET HORIZONTAL" Pump Motor Set, of 2.2Kw/3.0HP @ Maximum Head 36 Mtrs with 80LPM discharge with outlet size 40mm (1.5 inch) with SS Shaft & Thurst Bearing, 'Type OWKS32SS'	2	Set		
40. b.	Installation of the above supplied 'PM' Set in the UG-Reservoir on the pre-installed MS Iron frame by S&F SS Nut, Bolt & Washer.	2	Set		
40. c.	Installation of the Hot Dip GI, MS Channel made frame on the PCC Base in the Reservoir by S&F the MS Channel Frame made from ISMC75.	2	Set		
41. a.	Supply the set of 16SWG MS CRCA Sheet Metal Fabricated, Wall Mounted Cubicle Type Power Cum Motor Control Centre (PMCC) Panel Board, Compartmentalised rubber gasketed Door of suitable size to accommodate the Following electrical accessories each compl. with socket ended 1100V, Grade FR Copper Wires.				
	i) 'L&T' make 25A 4P-C MCB (10KA Br. Cap) as I/C Unit - 1 set.				
	ii) 'L&T' make, 10A 4P-C MCB (10KA Br. Cap as O/G Unit - 3 Sets.				
	iii) 'L&T' make, 16A 4P-C MCB (10KA Br. Cap) as o/G Unit - 2 Sets				
	iv) 'L&T' make, AC-3 Rating 12A, TP Power Contractor, (Coil Voltage 415V AC) Type MX Mini -2 sets				
	v) 'L&T' make, (with '1no' Contact) Directed operated Thermal OL Relay, Range (3.6 - 5.2)A, Type 'RX' - 2 Sets				
	vi) 'L&T' make 'ON' push Button of Green Actuator with '1No' element - 2 Sets				
	vii) 'L&T' make 'OFF' Push Button of Red Actuator with '1no' element - 2 Sets.				
	viii) 'L&T' make 2x'RED' LED Indicating Lamp, 230V AC & 'RED', 'Yellow', & Blue' - (2+3) = 5 Sets.				
	ix) 'L&T' make, 6A, 240V, 1 Pole, 2-Way with Centre OFF Rotary CAM Switch - 1 No.				
	The Board to be completed by all above accessories and to be completed by Powder Coat Painting along with 2 X M8 Bolt, Nut & double Washer, etc. (All in a set)	1	Set		
41. b.	Installation of the above unit on the pre installed MS long threaded Bolt with its fixing flanges on the wall of Pump Room including necessary Testing, etc. (Complete Works).	1	Set		
42. a.	Supply at site XLPE/Armoured - Al Conductor Cable of 1100V Grade, (as per list specified make) the 4C-16 Sq.mm. Cable.	40	Mtr		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
42. b.	Laying of the above Cable by the undermentioned Ways from the end of the VTPN-BDB and upto the PMCC Panel Board in the Pump Room.				
i.	By the same way as PART-'A' : I/No. - 8c	7	Mtr		
ii.	By the same way as PART-'A' : I/No. - 7	42	Mtr		
42. c.	S&F Medium Gauge 40mm GI Pipe (ISI-Medium) Protection with Necessary Fittings & Jointing materials as required, for the above Cable. @ 1.0 Mtr at the both end of the cable.	2	Mtr		
42. d.	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for 4C - 16 Sq.mm. Cable.	2	Nos		
42. e.	Finishing the end of the cables by crimping method Incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials	2	Set		
43	Supplying and fixing 2.5 mm OD PVC Rigid Conduit 'FR' [Precision Make] on wall, ceiling with saddles and other accessories as required and mending good damages to building works. average 8 mtrs./run X 2 run = 16 mtrs.	16	Mtr		
44	Supply & Drawing 'Gloster/Polycab' make 3-Core, 2.5 Sq.mm. Flat PVC Insulated & sheathed, 1100V Grade Copper Cable through the above PVC Rigid Pipe including making connections.	20	Mtr		
<b>E</b>	<b>LIGHTING ARRESTER INSTALLATION WORKS (BY CONVENTIONAL SYSTEM) :</b>				
45	S & F Lightning conductor Air-terminals made of 15 mm dia 1500 mm 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).	8	Nos		
46. a.	Supply & fixing GI (Hot Dip) strips 20 mm x 3 mm thick for horizontal run on the Parapet/Roof/ Wall with GI Saddles 1100 mm apart incl. mending good the damages to building works	147	Mtr		
46. b.	Supply & fixing of GI (Hot Dip) strips 20 mm x 3 mm thick for down vertical run on the building outer wall with GI saddles spaced not exceeding 1000 mm apart incl. mending good damages to building work, average 7.5 mtrs./run X 6 runs	45	Mtr		
47	Supply & Fixing of Testing Joints by 20 mm x 3 mm thick GI (Hot Dip) 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 (Hot Dip) wire of vertical conductor and conductor from earth electrode complete with S & F thimbles, GI bolts, nuts, check-nuts, spring washers etc. as required on the each Vertical/Down Conductor at a height of 0.75 mtr. above the G.L.	6	Set		
48	Making the soldered joints between conductors and down pipes/ other metallic objects for 14 SWG GI (Hot Dip) wire including supply of necessary 4 SWG GI (Hot Dip) wire, jointing materials and painting with 2 (two) coats of bituminous paint	12	Set		



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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
49	Hiring charges for Scaffolding arrangement including dismantling at the end of work and carriage for the installation of Vertical Conductor, @ 5.0 mtr/Vert. Conductor = 6 x 6 = 36 mtrs.	36	Mtr		
F	<b>COMPOUND &amp; AREA LIGHTING INSTALLATION &amp; ALLIED E.I. WORKS :</b>				
50	Fixing only LED outdoor/Street Light Fitting of 72 Watt, Complete item with the accessories to be fixed/projected from the inside wall of the parapet on the roof incl. making holes/providing clamping arrangement & necessary GI reducer as required, for 32 mm dia GI Pipe (ISI- Medium quality), 1.5 mtrs average length from top & upto the bottom, would have suitable bend, incl. S&F necessary length of 3X1C - 1.5 Sq.mm. PVC - Insulated Single Core multistranded annealed Copper Wire and making connections as required, as per the proposed Layout or as per direction of the E.I.C., and mending good the damages to Wall incl. painting by 2 coat of aluminium Paint over 1 coat of R.O. Primer.	19	Set		
51	S&F CRC Sheet metal (16 SWG) JB - Cum Switch Brd of following size just below the above arm bracket				
52	Supply at site, 7.5 mtr overall length, the SWAGED Tubular Pole as per IS:2713 (P-11)-1980 and as per designation '410 SP-9' would have the following length of the sections :- Bottom/Middle/Top = 4.5m/1.5m/1.5 and corresponding OD & thickness of the section (139.7 X 5.40)mm / (114.3 X 3.65) mm / (88.9 X 32.5) mm and overall weight to be 110 Kg, to be complete with Pole Cap and Base/Sole Plate of suitable dimension and thickness, etc.	13	Set		
53. a.	Erection of Single Steel tubular pole of length 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 3 mm 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  Size : (0.6 X 0.6 X 1.25) mtrs	13	Set		
53. b.	Extra on items 1& 2 above, for providing CC (6:3:1) base block (around the pole) dimension 0.60x0.60x0.75 mt. above ground level, neatly cemented finish (3 mm thick), at the base pole (in lieu of CC muffing) suitable for alkathene/ polythene pipe entry as directed for street light wiring, incl. S & F 25cmx25cmx10cm GI Loop box, 16SWG & incl. drilled hole in pole	13	Set		
54	Supply & installation of the 1.0 mtr. Long 40mm OD, thickness 2.0mm, Arm Bracket fixed with Switch with have the suitable arrangement of stiffner plate and arrangement of fixing with the pole by 4 x M8 both at 90 degree angle with each other at Central position and also by S&F long through bolt with double nut & washer, etc. (as per direction of the E.I.C.)	13	Set		





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SL				RATE	AMOUNT
No	DESCRIPTION	UNIT	QNT	Rs. P.	Rs. P.
55	Fixing of the supplied LED Luminaries of 88 Watt LED fittings, (Ref. Supply Item no. 16b), with the Arm bracket and also making internal connection by S&F drawing (3X1C - 1.5) Sq.mm. PVC Copper Wire by supplying and installation 19mm OD PVC flexible / corrugated Pipe starting from the end of the Loop Box and upto the Terminal Block of the Luminaire by using ladder etc. (Compl. item of Works).	13	Set		
56	Supply & Drawing 25mm OD, 3mm thick Polethene Pipe, 2 Sets at each Pole below the foundation block of the each pole average length 1.0 mtr. (one for I/C Cable & other for O/G Cable) (Compl. Item of Works & all in a set).	25	Set		
57. a.	Painting of Steel Tubular Pole of lengths and no. of coats of paint, as given below with ready mixed paint/primer of approved make, and brand incl. preparation of surface by sand paper/emery paper, cleaning etc. for receiving fresh coat of paint by				
	i) One coat of Red Lead/Zinc Chromate Priming & (ii) 2nd Coat of Synthetic enamel paint over the 1st coat of paint (Compl. Items of Work and in a set)	13	Set		
57. b.	Painting with Lime Washing the Muttering Block over the GI as per direction of the E.I.C. in respect of selection of the paint colour etc. (Complete item of works).	13	Set		
58. a.	Installation by S&F of the 40 mm OD GI Pipe by direct grouting over the Gate Pilar, at a depth of 0.5 mtr. And height at 0.3 mtr. Over the pilar incl. S& Drawing 2X25 mm OD & 3mm thick & 1.5 mtr each in length, Polythene Pipe from the end of the each GI Loop Box by S&F GI Loop Box in the respective Gate Pilar (Compl. Item of works & all in a set)	2	Set		
58. b.	S & Drawing 3 X 1C - 1.5 Sq.mm., PVC Copper Wires incl. making connection from the end of the Loop Box and upto the Terminal Block of the Luminaire through the prelaidd polythene pipe, (average 3.0 mtrs/Gate X 2) = 6.0 mtrs.	6	Mtrs		
59. a.	Supply at the site 16SWG MS CRCA sheet metal fabricated 'AUTO/MANUAL' Light Control Box (for all the Roof and Outdoor Area Lighting Luminaires, etc.), to be suitable for direc wall mounting the overall dimension not to be over 750mm (Ht.) X 400mm (Width) X 300mm (depth). The control Boxes to be completed by front openable and rubber gasketed hinged door and with 12 SWG MS Sheet as the Top & Bottom detachable gland cover (plate) and also by powder coat painting alongwith 2XMS Earthing Bolt with Nut & Washers, etc. and also to be completed by interconnection by PVC insulated 'FR' 1100V Grade multistandard / 1-Core Copper Wires for both the Powered Control Wires and by finishing the Wires and try S&F Copper Socket of Suitable size.				
	The internal accessories will be as undermentioned :				
	i) 'L&T' make 25A, 415 V, 4P-MCCB (Br.Cap. 10KA) as I/C Unit - 1 Set.				
	ii) 'L&T' make 32A/415V, 4-Pole power Contactor (AC-1 rating) Type 'MC X 03' with (2 nos. + 2 NC) add on Control Block (all in a set) - 1 Set				
	iii) 'L&T' make, 24hrs/Daily Quartz Clock operated TIME SWITCH, 240V AC DIN Mounting, Type 'FMI/QUARTZ with 1 Xclo Contact. - 1 Set				
	iv) 'L&T' make, 6A/240V, 1-Pole, 2-Way ON & CENTRE OFF Rotary CAM Switch (as AUTO/MANUAL SWITCH) - 1 Set				



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
	v) 'L&T' make. LED operated 230V AC Indicating Lamp 'Red & Green' (1no. Each). - 2 nos.				
	vi) Set of tinned Copper Flat 4X(19 x 3) Sq.mm., length each 250 mm on the small DMC Insulators, in a set - 1 Set				
	vii) 'L&T' make 6A SP-C MCB (Br. Cap. 10KA) on DIN Channel - 10 Nos.				
	1 no. for protection of the Control Ckt. 9 nos. for O/G ckt. (3nos. To be spare) (Compl. As per all above items and in a set).	2	Set		
59. b.	Installation of the above both Light Control B on the Wall, respectively in the Pump Room (one set) & another one in the Building (1st Floor), at the respective position as would be shown, on the pre-grouted long threaded both nut, washer, etc. with its fixing flanges and conducting the necessary test after installation etc. (Compl. item of works and all in a set).	2	Set		
60. a.	S&F 25mm Size PVC Rigid Conduit 'FR' precision make on the inside Wall of the parapet, all along for the parapet mounted compound Luminaires and mending good damages to building Works.	125	Rm		
60. b.	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in the pre-laid polythene pipe and by the pre-laid GI fish wire and making necy. connection as required, by (4 X 1C - 2.5 + 2 X 1C - 1.5) Sq.mm. Copper Wires by 2 runs, @ 70 mtr. per run, from the end of the Auto/Manual Light Control Box (meant for the Roofs Light at 1st Floor = 70 mtrs X 2 = 140 mtrs).	140	Rm		
<b>G</b>	<b>EARTHING INSTALLATION WORKS :</b>				
61	Earthing with 50 mm dia GI pipe (TATA-Medium)x 3.04 Mts. long and 1 x 4SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long galvanized bolt, double nuts, double washers including socketing at both ends of stranded GI (Hot Dip) wire by crimping sockets/ thimbles and S & F 15 mm dia GI pipe (ISI-Medium) protection (1 Mts. long) to be filled with bitumen partly below the ground level by TATA Medium GI Pipes. a) For System Earthing - 4 sets b) For LA-Door Conductor (Earthing) - 3 sets c) For F/Fighting / Pump Room - 2 Sets d) For DG's Neutral Point - 2 Sets	11	Set		
62	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 40 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	1	Mtrs		
63	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) f 25 cm width duly plastered ith cement mortar (inside) CI inged 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	11	Set		
64	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	8	Mtrs		





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SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
<b>PART-E TOTAL CARRIED TO GENERAL SUMMARY</b>					
<b>PART-F CONSTRUCTION OF BOUNDARY WALL 'PLOT-A'</b>					
1	Earth work in excavation of foundation trenches for boundary wall, in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing, Spreading or stacking the spoils within a lead of 75m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water etc. as required complete.				
	Depth of excavation not exceeding 1500mm.	Cum	70		
2	Filling in foundation trench plinth with earth obtained from excavation of foundation in layers not exceeding 150mm, as directed and consolidating the same by thorough saturation with water, ramming complete.	Cum	33		
3	Removal of rubbish from the working site and disposal of the same, beyond the compound exceeding 10 Km. and depositing and levelling in conformity with the Municipal/ Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of E.I.C.	Cum	37		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.				
a	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	7		
b	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	3.5		
5	125 mm thick Brick masonry work in cement mortar (1:4) using approved H.B. netting in every third layer with approved 1st class bricks ( 250 x 125 x 75 ) having minimum crushing strength of 105 kg per Cmsq. including curing at least for 7 days, before using it for work cleaning and soaking the brick at least for 24 hours, scaffolding, staging, all leads and lifts from any point to any point inside the site, in all structures such as walls / pillars / supports etc. as directed by the E.I.C.	Sqm	150		
6	Reinforcement 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.	Cum	32.5		
7	Hire and labour charges for shuttering with centering and necessary staging upto 4 M. using approved stout proper and hard wood planks of approved thickness with required bracing for concrete slabs, beams, stairs, columns, walls, lintel, any curved member, fins, chajjas and fascia etc. including fitting, fixing and striking out after completion of mandatory period as specified.				
	Steel shuttering or 9 mm to 12 mm thick approved quality ply board shuttering in any concrete work.	Sqm	345		



**B.O.Q. FOR CIVIL,SANITARY,BOUNDARY WALL,SITE DEVELOPMENT AND ELECTRICAL WORKS FOR INDSETI BUILDING AT MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
8	Reinforcement steel (Fe-500) for reinforced concrete work in all sorts of structures including distribution bars, stirrups binders etc. including supply of steel bars, 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 of E.I.C.	MT	4.0		
9	Providing & applying 20mm thick cement plaster to external surfaces of masonry and concrete surface in two coats, underlayer 12mm thick cement mortar 1:6 ( 1 cement : 6 coarse sand ) and top layer 8mm thick cement plaster 1:6 (1 cement: 6 coarse sand) finished smooth and leveling the surface all complete. External plastering shall include roughening of the concrete surface, raking out joints of brick works including groove where ever required, curing at least for 7 days etc., scaffolding, staging etc.	Sqm	490		
10	Neat cement punning 1.5mm thick.	Sqm	80		
11	Applying exterior grade Acrylic primer (Single coat) of approved quality and brand on plastered or concrete surface to receive decorative textured or smooth finish acrylic exterior emulsion paint including smoothening the surface by sand papering and scaffolding etc. complete in all respect as per direction of the E.I.C.	Sqm	490		
12	Priming single coats on steel surface with synthetic oil bound primer of approved make and brand including smoothening the surface by sand papering and scaffolding etc.	Sqm	90		
13	Supplying & applying two coats of protective and decorative Acrylic smooth exterior (anti fulgal) emulsion paints of approved quality on external / internal wall surface including surface preparation, scaffolding etc. complete as per direction of E.I.C.				
	Super protective 100% acrylic emulsion.	Sqm	490		
14	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 with scaffolding, complete				
	On steel or other M.S. surface with hi gloss				
	Two coats with approved shade.	Sqm	90		
15	M.S. Ornamental grill / raling of approved design joints continuously welded with M.S. W.I. Flats and bars of windows, raling etc. fitted and fixed with necessary screws and lugs Grill weighing above 14 Kg./sqm and up to 16 Kg./sqm	Kg	676		
16	Supplying, fitting and fixing grill gate, frame made from 50 mm x 6 mm M.S. flat iron with another horizontal flat at the middle, 20 mm dia M.S.bars at 200 mm apart from bottom flat to top and 20 mm dia M.S. bars at 200 mm apart from bottom flat to middle flat including drilling, welding etc. complete. All vertical bars are to be protruded at least 100 mm above the middle and top flat is to be flattened and pointed as directed. Necessary locking arrangement on both faces, arrangement for temporary closing the gate and 2 nos strong iron hinges of M.S. bars and flat of same sizes on each leaf to be embedded in C.C. brick / R.C.C. pillars as necessary including a red oxide painting to all iron works as directed and specified	Kg	65		





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MIDNAPUR UNDER INDIAN BANK ZONAL OFFICE, WEST BENGAL.**

SL No	DESCRIPTION	UNIT	QNT	RATE Rs. P.	AMOUNT Rs. P.
	<b>PART-F. TOTAL CARRIED TO GENERAL SUMMARY</b>				
	<b>TOTAL CARRIED DOWN TO GENERAL SUMMARY</b>				
PART-"A"	CONSTRUCTION OF BOUNDARY WALL,'PLOT-B'WORKS				
PART-"B"	CIVIL WORKS				
PART-"C"	INTERNAL AND EXTERNAL SANITARY & PLUMBING WORKS				
PART-"D"	SITE DEVELOPMENT,ROADS,ETC.WORK				
PART-"E"	ELECTRICAL WORKS				
PART-"F"	CONSTRUCTION OF BOUNDARY WALL -PLOT-'A' WORKS				
	TOTAL GROSS VALUE				
	ADD CGST 9 %				
	ADD SGST 9%				
	TOTAL NET VALUE				
	RUPEES IN WORDS:				

