

COST ABSTRACT

**REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK
RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1-
FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.**

1.00	COST FOR CIVIL WORKS	Rs.	
2.00	COST FOR SANITARY PLUMBING WORKS	Rs.	
3.00	COST FOR ELECTRICAL WORKS	Rs.	
4.00	SUB-TOTAL COST	Rs.	
5.00	SUB-TOTAL INCLUDING GSTN	Rs.	

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

SI No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount	Rs. P.
(A) Dismantling , Demolishing and Repairing Works:-						
1	Clearing grass and removal of rubbish up to adistance of 30 m outside the periphery of the area as per Technical Specifications By Manual Means (a) In Ground floor	74.25	Sq.m			0.00
2	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m on the specific direction of the Engineer-in-charge. (a) In any floor.	196.70	Cu.M.			0.00
3	Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. on the specific direction of the Engineer-in-charge. (a) In any floor.	170.54	Cu.M.			0.00
4	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 mon the specific direction of the Engineer-in-charge. (a) In any floor.	36.27	Cu.M.			0.00
5	Stripping off worn out plaster and raking out joints of walls, celings etc. upto any height and in any floor in two blocks of five storied building including removing rubbish within a lead of 75m as directed. (a) In any floor.	2344.25	Sq.M			0.00
6	Removing old scales, blisters etc. of interior surface of walls, ceiling by scraping, removing loose scales, blisters also scraping old painted surface,doors & windows etc. and preparing smooth and even surface to make the surface suitable for receiving paint, distemper etc on the specific direction of the Engineer-in-charge. (a) In any floor.	11699.18	Sq.M			0.00
7	Polishing only of old marble or terrazo work with oxalic acid powder using 33 gms/ sq.m. by manual labour / machine including white chips and white cement all floor on the specific direction of the Engineer-in-charge. (a) In any floor.	2383.64	Sq.M			0.00
8	Taking out shutter of doors including varandah glass doors dismantling by parts (for repair or replacement of damaged parts) , reassembling and refitting and rehanging same with new screws, hings, cylindrical lock etc.and the cost of other fittings and fixture in any floor as per direction of Engineer-In-Charge.	87.00	Each			0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
9	Removal of rubbish,earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	170.540	Cum		0.00
					0.00
(B) Retrofitting works :-					
10	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification][Mode of measurement:The affected surface area of reinforcement shall be considered for payment] In any floor.	149.79	Sq.m		0.00
11	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification. (0.4 Kg / m ² of concrete surface).In any floor.	149.79	Sq.m		0.00
12	Removing corroded worn out portion of reinforcement (when the area of bar is damaged by more than 25%) by cutting and replacing the same by a new plain round bar of requisite diameter by binding with required lap / welding with old bar, including cost of reinforcement, complete in all respect including removing unserviceable materials from site as per direction of the Engineer - in - charge. Note : Payment on weight (Kg.) of new reinforcement. In any floor.	149.79	Kg		0.00
13	Providing anti-corrosive protective coating to inhibit the corrosion to HYSD reinforcements including two coats of anti-corrosive coatings of consumption as per manufacturer's specification, cleaning etc. complete as per the direction of the Engineer-in Charge	149.79	Sq.m		0.00
	(a) In any floor.				
14	Providing Re-bars grouting in place of missing reinforcement in some existing column and applying chemical grouting of reinforcement bar in existing concrete as embedment depth considering 12 D of each bars using FISV 3605 FISHER CHEMICAL including cost of operation labours and are to be executed by the Expert. In any floor.				
	Considering each point				
	20mm dia.	25.00	each point		0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount	Rs. P.
	16 mm dia	50.00	each point			0.00
	10 mm dia	280.00	each point			0.00
	8 mm dia	1120.00	each point			0.00
15	Supplying, preparing and placement of ready mix on shrink cementious microconcrete/zip concrete having no metallic aggregate or chlorides for repairing and \ Jackting of damaged R.C.C. members. Themicro concrete should achieve a compressive strength not ~ ~less than 10 MPaafter 24 hours. 40 Mpaafter 7 days3 ~ and 50Mpa aftre 28 days at 300C.It should have~ unrestrained expansion in between 1 to 4%. flexural~ strength shall not be less than 5MPaafter 28 days.Micro concrete should have a co-efficient of thermal expansion similar to that of the host concrete.	9.00	Cu.m			0.00
16	Supplying ready mixed concrete of M 25 Grade with well graded stone chips of 20 mm nominal size containing designed quantity of cement per Cu.m of wet concrete produced in computerised 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 platform 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 computerised batching plant transit mixer with all accessories vibrators etc. inclusive of all other incidental charges in this connection complete but excluding cost of hire charge of platform and its supporting staging which would be paid through separate item. [cement to be supplied by the Manufacturer/ supplier]	36.14	Cu.m			0.00
	(a) In any floor.					
17	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 elevant IS 456-2000. (a) Pakur Variety	37.31	cum			0.00
	(a) In any floor.					
18	Ordinary Cement concrete (mix 1:3:6) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement and Chipping of concrete surface before taking up Plastering work.					
	(a) In any floor.	27.945	Cum			0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount	Rs. P.
19	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 .					
	9 to 12 mm thick approved quality ply board shuttering in any concrete work					
	(a) In any floor.	410.40	sqm			0.00
20	Hire and labour charges for shuttering for concrete work in overhead R.C. Reservoir on separate R.C. frame including fitting, fixing and striking off after completion of work including staging upto 4 m using ply board or steel shuttering. (Not applicable for resting on roof top)					
	(a) In any floor.					
	(b) Extra for Staging beyond 4 m [mode of measurement: Area of unsupported horizontal projection (where staging beyond 4 m is practically unavoidable) x mean height of staging] above initial 4 m.	1213.65	Cu.m			0.00
21	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.					
	(a) In any floor.	5.43	M.T.			0.00
22	Welding in M.S. structural work with gas or electric: (a) Tack weld	930.00	POINT			0.00
	(b) Continuous weld.	200.00	CM			0.00
						0.00
(C) Earth Work in Excavation :-						
23	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.					
	Depth of excavation not exceeding 1.500 mm.	232.88	cum.			0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount	Rs. P.
24	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)					
	(a)With earth obtained from excavation of foundation.	46.58	cum.			0.00
25	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm 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 measurement of finished quantity)	3.65	cum.			0.00
						0.00
(D) : Brick Works:-						
26	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand .	22.50	sqm.			0.00
27	Brick work with 1st class bricks in cement mortar (6:1)					
	(a) In any floor.	14.06	Cu.m			0.00
28	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) with H.B netting in every third layer in 29 & 30 above.					
	(a) In any floor.	121.44	sqm			0.00
29	75mm thick brick work with 1st. Bricks set in cement sand mortar (1;4) including H.B.netting in every alternet layars					
	(a) In any floor.	60.75	sqm			0.00
						0.00
(E): Water Proofing Treatment Works:-						
30	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint / Sika Latex having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in roof, water tank etc.	750.79	Sq.m			0.00
31	Anti shrinkage Cement concrete of (mix 1:2:4) with graded stone chips (5 mm to 10 mm size) within 75 mm thick (Avg) excluding shuttering and reinforcement for skid concrete over roof including antishrinkage admixture & Water proffing compound laying compacting and levelling as per direction of Engineer-in-charge.	750.79	Sq.m			0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount	Rs. P.
32	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Epoxy as per specific direction of Engineer-In -Charge.	248.00	Each			0.00
33	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete as per clause 2803.1 as per specific direction of Engineer-In -Charge.	124.00	Kg			0.00
						0.00
(F): Wood & PVC Works:-						
34	Repairing of Wood work in door frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame including cost of concrete, Iron Butt Hinges and M.S clamps of size 40mm X 6mm, 250mm Length. (The quantum should be corrected upto three decimals). (d) Sal : Local.					
	(a) In any floor.	0.46	cu.m.			0.00
35	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 placed 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. (b) 32 mm thick shutters (single leaf). (i) Any Floor	29.00	Each			0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
36	Renewing old door & supplying, Fitting & Fixing 30 mm thick Factory made solid Panel PVC Door Shutter with PVC Door frame consisting of outer frame made out of M.S. tubes of 19 gauge thickness and size 19 mmx19 mm for styles, top and bottom rails, M.S. frame shall have cost of steel primers of approved make and manufacture, M.S. frame covered with 5 mm th. heat moulded PVC "C" channel of size 30 mm th, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on either sides forming styles; and 5 mm th. 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm tapered in 45 degree on the inner side to form top & bottom rail and 115 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel with 10 mm (5 mmx2) th.,20 mm wide cross PVC sheet as gap insert for top rail and bottom rail. Paneling of 5 mm th. both side PVC sheet to be fitted in the M.S. frame welded/sealed to the styles & rails with 7 mm (5 mm+2 mm) th.x15 mm wide PVC sheet beading on inner side and joined together with solvent cement adhesive. An additional 5 mm th. PVC strip of 20 mm which is to be stuck on the interior side of the "C" channel using PVC solvent adhesive etc. complete including all necessary fitting & fixture of hardwares in any floor as per direction of Engineer-in-Charge.	71.00	Each		0.00
					0.00
(G) : Plastering Works:-					
37	Plaster (to wall, floor, ceiling etc.) with (ready plast)/ basekrate 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 including cost of chipping over concrete surface.				
	With 1:4 cement mortar				
	10 mm thick plaster				
	(a) In any floor.	870.00	sqm.		0.00
	15 mm thick plaster (1:6)				
	(a) In any floor.	1239.75	sqm.		0.00
	(ii) With 1:4 cement mortar				
	20 mm thick plaster (Double plaster)				
	(a) In any floor.	540.55	sqm.		0.00
38	Applying epoxy mortar (10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per the direction of the Engineer-in Charge. In any floor.	149.79	Sq.m		0.00
					0.00
(H) : Flooring Works:-					

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
39	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and anti-skid floors and taking out old damage tiles in wall and 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.				
	B) Walls and anti-skid Floors With Sand Cement Mortar (1:3) 15 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 (ii) Other than Coloured decorative including white				
	(a) In any floor.	1222.00	Sq.m		0.00
40	20 mm. thick (finished) terrazo work with precast tiles set on 20 mm avg thick cement mortar (1:3) and sides with admixture of pigment and white/grey cement as necessary in floor, dado, skirting, staircase etc. laid in panels or in patterns including high polishing, raking out joints, roughening of concrete surface & application of cement slurry before flooring works using cement @ 1.75 kg. per sq.m. all complete including all materials & labour.				
	In any floor.				
	(A) 9 mm. thick terrazo topping, laying and finished to 6 mm. thick after final grinding with 0 to 7 mm. size mosaic chips.				
	v) In pink, green, yellow, light green colour using white cemeny only and necessary pigment.	242.44	Sq.m		0.00
41	Supplying, fitting and fixing Black Stone slab used in Kitchen slab, alcove, wardrobe etc. laid and jointed as per direction of Engineer-in -Charge.In any floor.				
	(b) Slab Thickness above 25 mm and upto 37.5 mm	52.20	Sq.m		0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
42	Supplying and laying true to line and level Double Charge Vitrified Tiles of approved brand conforming to IS 15622: 2006 (Group B I a) and tested as per IS 13630:2006 (relevant parts) [Non-modular sizes for tiles with Water Absorption (av.) ≤ 0.08 %] in floor, skirting etc. using polymerised adhesive of 6mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course and joints grouted with admixture of white epoxy grout materials of approved brand including spacer -2mm as directed and 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 as per direction of Engineer in-Charge. (Note: This work should not be executed without specific permission of Engineer in-Charge.)				
	a) In Any Floor:(size not less than 600mmX 600 mm X 9.5 mm thick)	237.93	Sq.m		0.00
					0.00
(I) : Window and M. S Grill Works :-					
43	Supplying,fitting & fixing of 2-Track / 3-Track /Louver Aluminium sliding Window of all Aluminium sections viz. window frame (top,bottom & side frame), shutter (top, bottom, side & interlock member) made of aluminium alloy extrusions conforming to IS 733-1983 & IS 1285-1975, annodised conforming to IS 1868-1983, fitted with all other accessories viz. PVC roller, EPDM gasket, maruti lock, screws etc. including labour charges for fitting & fixing of aluminium 2-track/3-track sliding window with fixing of glass (including cost of 4mm glass) all complete as per architectural drawings and direction of Engineer-in-charge. 10-12 Micron thickness Annodizing film Natural white	141.41	Sq.m		0.00
44	Repairing, 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.				
	A) Openable steel windows as per IS sizes with side hung shutters and horizotal glazing bars with/without fixed type ventilators. [Including cost of 4 mm th glass]				
	(a) In any floor.	407.00	sq.m		0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
	B) M.S. integrated grill as per approved design integrated with steel window or ventilator, joints continuously welded with M.S. flats and bars.				
	(a) Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr.				
	(a) In any floor.	5568.00	Kg		0.00
	C) Two point nose MS handle including fitting and fixing.	485.00	each		0.00
	D) M S peg stay 300 mm long including fitting and fixing.	485.00	each		0.00
					0.00
(J) : Internal & Exterior Paint Works :-					
45	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)				
	(a) In any floor.	3180.36	sq.m		0.00
46	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC.				
	(b) Two Coats				
	(a) In any floor.	11699.18	sqm.		0.00
47	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (b) Two Coats				
	(a) In any floor.	5556.15	sqm.		0.00
48	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer); (b) Two Coats				
	(a) In any floor.	11699.18	sqm.		0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
49	Protective and Decorative Acrylic exterior emulsion paint with 5 Years Warranty of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.				
	(b) Two Coats				
	(a) In any floor.	5556.15	sqm.		0.00
50	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. at all floor.				
	i) Steel work	1269.30	sqm.		0.00
	ii) Priming one coat on timber or plastered				
51	Priming one coat on timber of plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.				
	(a) In any floor.	530.88	sqm.		0.00
52	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. pn the surface, if necessary.				
	a) On timbar, on Steel or Metal or plaster surface.				
	Two coats (With any shade except white)				
	(a) In any floor.	1800.18	sqm.		0.00
					0.00
K: Additional protection Works					
53	M.S. structural works with hollow sections (square or rectangular shape) conforming to IS: 806-1968 & IS:1161-1998) connected to one another with bracket, gusset, cleat as per design, drawing & direction of Engineer-in-Charge complete including cutting to requisite shape & size, fabrication including metal arc welding conforming to IS: 816-1969 & IS: 9595 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of all M.S. Hollow section, all consumables such as electrodes, gas and hire charges of all tools and plants and labour required for execution and all incidental chages (such as electricity, labour insurance) etc. complete.				
	i) For other Structural works like galleries etc.	1.00	MT.		0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Sl No	Description of Item	Quantity	Unit	Rate Rs. P.	Amount Rs. P.
54	Galvanised corrugated iron sheet work (excluding the supporting frame work) fitted and fixed with 10 mm. dia J or L hook-bolts, limpet and bitumen washers and putty complete with 150 mm. end lap and one corrugation minimum side lap. (Payment to be made on area of finished work)(GCI sheet to be supplied by contractor) (i) In Roof:- a) With 0.60 mm thick sheet				
		54.00	Sq.M		0.00
			Total		0.00

SANITARY AND PLUMBING ESTIMATE**REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.**

Sl. No.	Description of Works	Quantity	Unit	Rate (Rupees)	Amount (Rupees)
1.00	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . 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, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials 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.				
	(i) CPVC Pipes Class-1, SDR-11				
	a) For Exposed /concealed Work				
	15 MM DIA	225.60	Mtr		0.00
	20 MM DIA	884.07	Mtr		0.00
	25 MM DIA	162.00	Mtr		0.00
	32 MM DIA	464.00	Mtr		0.00
	40 MM DIA	195.20	Mtr		0.00
	50 MM DIA	73.20	Mtr		0.00
2.00	Supplying, fitting and fixing Peet's valve fullway gunmetal standard pattern best quality of approved brand bearing I.S.I. markng with fittings(tested to 21 kg/sq.cm.).				
	20 MM DIA	69.00	Each		0.00
	32 MM DIA	29.00	Each		0.00
	40 MM DIA	12.00	Each		0.00
	50 MM DIA	12.00	Each		0.00

3.00	Supplying, fitting and fixing bib cock or stop cock.				
	a(i) Chromium plated Bib Cock short with wall flange with aerator (Equivalent to Code No. 511 & Model - Tropical / Sum thing Special type of brand VICTOR-BIB COCK	345.00	Each		0.00
	B(i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model -	276.00	Each		0.00
	D(i) Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053.	276.00	Each		0.00
	e) (ii) CP Wall Mixture without spout but with provision for connection to Telephone Shower and exposed pipe for Overhead shower (Equivalent to Code No. 5215.	69.00	Each		0.00
	Health Faucet ABS body with 1 meter SS braided connection pipe	69.00	Each		0.00
4.00	Supplying, fitting and fixing Anglo Indian W.C. in white glazed vitreous china ware of approved make complete in position with necessary bolts,nuts etc.				
	(a) With 'S' trap (with vent)	69.00	Each		0.00
5.00	Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws supplied, fitted and fixed complete. (a) E.W.C. (ii) Plastic (hallow type) white	69.00	Each		0.00
6.00	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.	69.00	Each		0.00

7.00	Supplying, fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete. i) Polythene Flush Pipe	69.00	Each		0.00
8.00	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. (iv) 600 mm long	276.00	Each		0.00
9.00	Supplying, fitting and fixing white vitreous china best quality approved make wash basin with C.I. brackets on 75 mm X 75 mm wooden blocks, C.P. waste fittings of 32 mm dia., one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 30 mm dia., approved quality P.V.C. waste pipe with C.P. nut 32 mm dia., 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages and painting the brackets with two coats of approved paint.				
	(ii) 550 mm X 400 mm size	58.00	Each		0.00
10.00	Supplying, fitting and fixing stainless steel sink complete with waste fittings and two coats of painting of C.I. brackets. (a) Sink only (i) 530 mm X 430 mm x 180 mm	29.00	Each		0.00
11.00	Supplying, fitting and fixing pillar cock of approved make. a) (i) CP Pillar Cock - 15 mm. (Equivalent to Code No. 507).	98.00	Each		0.00

12.00	Supplying, fitting and fixing best quality Indian make mirror 5.5 mm thick with silvering as per I.S.I, specifications supported on fibre glass frame of any colour, frame size 550 mm X 400 mm	69.00	Each		0.00
13.00	Supplying, fitting and fixing towel rail with two brackets.(a) C.P. over brass (iii)25 mm dia. and 600 mm long	69.00	Each		0.00
14.00	Supplying, fitting and fixing soap holder. (b) Fibre glass	69.00	Each		0.00
15.00	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 makesupplied, 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				
		15.00	Each		0.00
16.00	Cutting hole through wall,roof or cornice and mending good all damages.	276.00	Each		0.00

17	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, ncluding 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 materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete.				
	A) UPVC Pipes:				
	(ii) 110 mm. Dia.	196.00	Mtr.		0.00
18.00	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (A) (i) Single Socketed 3 Meter Length				
	(a) 75 mm	355.25	Mtr.		0.00
	(b) 110 mm	1125.25	Mtr.		0.00
	(B) Fittings (i) Coupler				
	(a) 75 mm	204.00	Each		0.00
	(b) 110 mm	204.00	Each		0.00
	(ii) Plain Tee				
	(a) 75 mm	46.00	Each		0.00
	(b) 110 mm	276.00	Each		0.00
	(iii) Door Tee	232.00	Each		0.00
	(b) 110 mm				
	vi) Door Y (LH) & (RH)	232.00	Each		0.00
	(b) 110 mm				
	x) Bend 87.5°				
	(a) 75 mm	232.00	Each		0.00
	(b) 110 mm	552.00	Each		0.00
	xi) Door Bend (T.S.)	40.00	Each		0.00
	110 mm				
	xiv) Cross Tee with Door				
	(a) 75 mm	84.00	Each		0.00
	(b) 110 mm	84.00	Each		0.00
	xv) Vent Cowl	84.00	Each		0.00
	110 mm				
	xvi) Pipe Clip				
	(a) 75 mm	360.00	Each		0.00
	(b) 110 mm	360.00	Each		0.00

	xxiii) 110/110 S Trap/ P Trap	207.00	Each		0.00
	xxvi) Reducer 110 X 75 mm	170.00	Each		0.00
	xxvii) Reducing Tee (110 X 75 mm)	345.00	Each		0.00
	xlix) Door Gasket (b)110 mm	345.00	Each		0.00
19.00	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)... (A) Above ground				
	(a) 75 mm	355.25	Mtr		0.00
	(b) 110 mm	1125.25	Mtr		0.00
20.00	Supplying, fitting and fixing C.I. round grating. 150 mm dia	98.00	Each		0.00
21.00	Supplying, fitting and fixing shower of approved brand and make. over head rain shower 125 x 125 mm dia (5" x 5") with 200mm long shower arm				
		69.00	Each		0.00
22.00	Taking out rain water down pipe.				
		1078.80	Metre		0.00

23.00	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, long screw, 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				
	150 mm	196.50	Mtr.		0.00
24.00	Supplying, fitting and fixing yard gully with approved H.C.I. grating complete.				
	(i) 225 mm X 150 mm with 230 mm gratings	15.00	Each		0.00
25.00	Supplying, fitting and fixing in position reinforced cement polymer concrete manhole /gully pit cover(with grating) with matching frame.As per I.S-12592 (M.D)[Note: This work should not be executed without specific permission of Superintending Engineer.]				
	5 MT load bearing capacity gully pit cover with frame and hinge arrangement for opening of size Cover: 470 mm X 420 mm X 80 mm Frame: 590 mm X 550 mm X 170 mm opening: 380mm x 305mm Weight: 100 kg (approx)	15.00	Each		0.00

REPAIR AND RENOVATION OF FOUR STORIED INDIAN BANK RESIDENTIAL BUILDING AT SHIVAM RESIDENTIAL COMPLEX, 1- FAKIR PARA ROAD, BEHALA, KOLKATTA-700 034.

Electrical Works

SL. No.	DESCRIPTION OF WORKS	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.00	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as (By TATA-Medium GI pipe)or directed by site- In -Charge	Set	6.00		
2.00	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 SWG as per site requirement and direction of site-in-charge	Mtr	2400.00		
3.00	Supply, delivery, laying & fixing of gland if required of 2 Core 6 Sq mm coper flexible cable including earthing 2.5 sq mm copper flexible wire as per site requirement and direction of site-in-charge (POLYCAB,RR CABLE,FINOLEX)	Mtr	630.00		

4.00	Supply, delivery, laying & fixing of gland if required of 2 Core 10 Sq mm coper flexible cable including earthing 2.5 sq mm copper flexible wire as per site requirement and direction of site-in-charge (POLYCAB,RR CABLE,FINOLEX)	Mtr	525.00		
5.00	Supply & fixing of 3.5 Core 70 Sq mm XLPE AL ARMOURED cable as per site requirement and direction of site-in-charge	Mtr	10.00		
6.00	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 : 3.5 core 35 to 70 sq mm Al armoured cable as per site requirement and direction of site-in-charge	Each	8.00		
7.00	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. 2x56/0.3 (4 sqmm) + 1x36/0.3 (2.5 sqmm) as ECC as per site requirement and direction of site-in-charge	RM	565.00		

8.00	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required 2 x 36/0.3 (2.5 sqm) + 1 x 22/0.3 (1.5 sqmm) ECC as per site requirement and direction of site-in-charge	Mtr	3900		
9.00	Supplying & Fixing pvc inspection box with cover complete of the following sizes flushed in wall by housing the same after cutting brick wall incl. making earthing attachment, and mending good damages to building works. (175x100x65)	Each	10.00		
10.00	Supplying & Fixing GI Modular Switch Board with cover plate of the following sizes 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. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. 8 Module as per site requirement and direction of site-in-charge	Set	70.00		

11.00	Supplying & Fixing GI Modular Switch Board with cover plate of the following sizes 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. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. 12 Module as per site requirement and direction of site-in-charge	Set	20.00		
12.00	Supplying & Fixing GI Modular Switch Board with cover plate of the following sizes 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. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. 6 Module as per site requirement and direction of site-in-charge	Set	200.00		
13.00	Supplying & Fixing GI Modular Switch Board with cover plate of the following sizes 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. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. 4 Module as per site requirement and direction of site-in-charge	Set	35.00		

14.00	Supplying & Fixing GI Modular Switch Board with cover plate of the following sizes 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. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. 3 Module as per site requirement and direction of site-in-charge	Set	90.00		
15.00	Supplying & Fixing GI Modular Switch Board with cover plate of the following sizes 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. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works. 2 Module as per site requirement and direction of site-in-charge	Set	145.00		
16.00	Supply & Fixing 240 V, 16 A, 5 pin Modular type plug socket with switch(Brand approved by EIC) with 16A Modular type switch, without plug top on 2 & 3 Module GI Modular type switch board with 2 & 3 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	Each	116		

17.00	Supply & Fixing 240 V, 6 A, 3 pin Modular type plug socket (Brand approved by EIC) with 6A Modular type switch, without plug top on 3 to 12 Module GI Modular type switch board with top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	Each	180		
18.00	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire (Brand approved by EIC) partly in 20mm size PVC rigid conduit 'FR' (Precision make) [for horizontal run & above false ceiling portion only] and in 19mm bore, 3mm thick polythene pipe [for vertical run embedded in wall], with 1x22/0.3 (1.5 sqmm) single core stranded 'FRLS' 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. [PVC Rigid Conduit only for horizontal run & above false ceiling and vertical run concealed (Av. 8 Mtr Run)]	Set	753.00		
DISTRIBUTION BOARDS (All MCBs to be "C" series)					

19.00	Supplying and fixing 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 (2+12 way Enclosure 607712)@Rs:1557.				
	Incoming : 1 No. 240V.40A DP MCB , 10 KA, C Curve (@ Rs. 938.00)				
	Outgoing :6- 25A SP MCB -10 KA, C Curve (@ Rs. 190.00) 12 Nos .				
	Complete	Each	18.00		
	Incoming : 1 No. 240V.63A DP MCB , 10 KA, C Curve (@ Rs. 938.00)				
	Outgoing :6- 10A SP MCB -10 KA, C Curve (@ Rs. 190.00)12 Nos .				
	Complete	Each	14.00		
20.00	Supplying and fixing double door 6Way VTPN 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 . Legrand make				
	In Coming :- 1 no. 415V, 125A. TPN MCCB (36 KA) with O/L, S/C, E/F & MP release ,Legrand make,				
	Out Going:- 3 Nos. 63 TP MCB, 10 KA, C Curve Legrand make.				

	Out Going:- 2 Nos. 25 TP MCB, 10 KA, C Curve Legrand make.				
	Out Going:- 5 Nos. 10-25A SP MCB, 10 KA, C Curve Legrand make.				
	Complete	Each	1.00		
21.00	Supplying and fixing MCB SS enclosure with IP-20/30 protection, powder coated provision for two/four pole MCB, concealed in wall after cutting the wall & mending good the damages to original finish incl. painting, connection & provision for earthing attachment (2 Way, Legrand Make)	Each	32		
22.00	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. 40A DP & 63 A DP, Legrand Make.	Each	32		
23.00	Renewing TWO nos of existing pumps including one of submersible pump as per site requirement and direction of site-in-charge	L.S	L.S		
	FITTINGS / INSTALLATION				
24.00	supply & Fixing only 20/18 WATT LED light fitting complete with all accessories directly on wall/ceiling/HW round block and suitable size of MS fastener	Each	496		

25.00	Supply & Fixing 36/50 WATT outdoor / street light LED light fitting complete with all accessories to be fixed /projected from the wall of the building incl. making holes/providing clamping arrangement & necy. GI reducer as required. S&F 40 mm GI pipe (ISI-Medium) quality 1.5 mts. average length having suitable bend S&F necy. length of 1.5 sqmm PVC insulated single core stranded annealed copper wire and making connections as required and mending good damages to wall incl. painting etc.as per site requirement and direction of site-in-charge	Each	15		
26.00	Supplying Fixing only LED type 9/10Watt Lamp,100 -120 Lumen/Watt,Philips Make on existing Bracket holder with necessary wire,nuts& bolts etc.	Each	110		
27.00	Dismantelling of Existing lighting Fittings,Wiring ,DB,SB asdirecton of E-I-C.		LS		