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HOWRAH IMPROVEMENT TRUST
19, GRAND TRUNK ROAD (SOUTH)
HOWRAH – 711101, P.O. BOX NO.- 6

**Name Of Work: “CONSTRUCTION OF
1(ONE) NO. FLOOD SHELTER AT MOUZA-
BHABANIPUR UNDER U.N. PUR BLOCK,
UNDER DISASTER MANAGEMENT FUND, J.L.
NO-061, KHATIAN NO.-01, DAG NO.
310, HOWRAH”.**

Estimated Amount: Rs. 60,93,502.62

Say Rs. 60,93,503.00

[Signature]
17.8.16
Assistant Engineer

[Signature]
18.8.16
Executive Engineer

Vetted
[Signature]
26.08.16
Deputy Chief Engineer

Vetted
[Signature]
Superintending Engineer, PND
SPIO, NCRMP-II
Department of Disaster Management
Govt. of West Bengal

Sanjit Bose
Deputy Chief Engineer-II
Howrah Improvement Trust
(Under U. D. Deptt. Govt. of W.B.)

Superintending Engineer
Survey & Design Circle BWD

Howrah Improvement Trust

19, GRAND TRUNK ROAD (SOUTH), HOWRAH - 711 101

Estimate for "Construction of 1(one) no. multipurpose Flood/Cyclone Shelter at Mouza-Bhabanipur under U.N Pur Block, under Disaster Management Fund, J.L.No-061, Khatian No-01, Dag No-310, Howrah".

Item No.	Description of work	Quantity	Unit	Rate Rs. P.	Amount Rs. P.	Remarks
1	Earthwork in excavation of foundation trenches or drains etc. in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or satcking 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 etc.as required complete.					Schedule of rates PWD Building, (vol.-I) Effective from 1st-December-2015 P- 1, I- 2(a)
	a) Depth of excavation not exceeding 1500 mm.	138.00	%Cum	12047.00	16624.86	
	Rate in words					
	Rupees twelve thousand forty seven only					
2	Earth work in filling in foundation trenches, plinth ,compound,tank,low land, ditches etc with good earth, in layers not exceeding 150 mm including watering and ramming etc. layer by layer complete. (Payment to be maid on the basis of measurement of finished quantity of work.) With earth obtained from excavation of foundation.	110.00	%Cum	7831.00	8614.10	P-1 , IT-3(a)
	Rate in words					
	Rupees seven thousand eight hundred thirty one only					
3	Filling in foundation or plinth by silver 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)	160.00	%Cum	80670.00	129072.00	P-2, IT-4 ,B
	Rate in words					
	Rupees eighty thousand six hundred seventy only					
4	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand.	267.00	Sqm.	374.00	99858.00	P-12, IT-1
	Rate in words					
	Rupees three hundred seventy four only					
5	Cement concrete with graded stone ballast (40 mm size) excluding shuttering 1:3:6 Proportion	19.00	Cum	5661.00	107559.00	P-12, IT-4(a)
	Rate in words					
	Rupees five thousand six hundred sixty one only					
6	Ordinary cement concrete(mix 1:2:4) with graded stone chips (20mm nominal size) excluding shuttering and reinforcement, if any as per relevent IS cdes. Pakur varity					Analysed Ratre
	a) In Ground floor	12.00	Cum	6255.00	75060.00	
	Rate in words					

	Rupees six thousand two hundred fifty five only					
	b) In 1st floor	0.21	Cum	6351.00	1301.96	
	Rate in words					
	Rupees six thousand three hundred fifty one only					
	c) In 2nd floor	0.21	Cum	6447.00	1353.87	
	Rate in words					
	Rupees six thousand four hundred forty seven only					
	d) In 3rd floor	0.02	Cum	6543.00	98.15	
	Rate in words					
	Rupees six thousand five hundred forty three only					
7	Ordinary cement concrete(mix 1:1.5:3) with graded stone chips (20mm nominal size) excluding shuttering and reinforcement, if any as per relevent IS codes. Pakur varity					Analysed Ratre
	a) In Ground floor	70.00	Cum	7268.62	508803.40	
	Rate in words					
	Rupees seven thousand two hundred sixty eight and paise sixty two only					
	b) In 1st floor	36.00	Cum	7364.62	265126.32	
	Rate in words					
	Rupees seven thousand three hundred sixty four and paise sixty two only					
	c) In 2nd floor	36.00	Cum	7460.62	268582.32	
	Rate in words					
	Rupees seven thousand four hundred sixty and paise sixty two only					
	d) In 3rd floor	12.00	Cum	7556.62	90679.44	
	Rate in words					
	Rupees seven thousand five hundred fifty six and paise sixty two only					
8	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)					P-27, I-12(f),(a)
	(a) 25 mm to 30mm shuttering without staging.	98.00	Sqm.	225.00	22050.00	
	Rate in words					
	Rupees two hundred twenty five only					
	(b) 25 mm to 30mm shuttering with staging in foundation.					
	(i) Upto roof of Ground Floor.	384.00	Sqm.	359.00	137856.00	
	Rate in words					
	Rupees three hundred fifty nine only					
	(ii) Upto roof of 1st. Floor.	346.00	Sqm.	377.00	130442.00	
	Rate in words					
	Rupees three hundred seventy seven only					
	(iii) Upto roof of 2nd. Floor.	348.00	Sqm.	395.00	137460.00	
	Rate in words					
	Rupees three hundred ninety five only					
	(iv) Upto roof of 3rd. Floor.	60.00	Sqm.	413.00	24780.00	
	Rate in words					

	Rupees four hundred thirteen only								
	Reinforcement for reinforcement concrete work in all sorts of structures including distribution bars, stirrups, binders, etc. including supply of rods, initial straightening and removal of loose rust (if necessary) cutting to requisite length, hooking and bending to correct shape, placing in proper position and bending with 16 guage black annealed wire at every intersection, complete as per drawing and direction. Tor steel / Mild steel.								P-28 I-15(a)(i) &(b)(i)
	(a) In foundation, basement and upto roof of ground floor/upto 4 M.	8.20	M.T.	61787.00	506653.40				
	Rate in words								
	Rupees sixty one thousand seven hundred eighty seven only								
	(b) For works of 1st floor Upto roof	4.50	M.T.	62227.00	280021.50				
	Rate in words								
	Rupees sixty two thousand two hundred twenty seven only								
	(c) For works of 2nd floor Upto roof	4.30	M.T.	62667.00	269468.10				
	Rate in words								
	Rupees sixty two thousand six hundred sixty seven only								
	(d) Upto roof of 3rd floor	1.35	M.T.	63107.00	85194.45				
	Rate in words								
	Rupees sixty three thousand one hundred seven only								
10	Artificial stone in floor dado, staircase, etc. with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (2:1) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works, using cement @ 1.75 kg / sq.m. all complete including all materials and labour. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). 35mm thick								P-41, I T-3(iii)
	(a) In Ground Floor	165.00	Sqm	357.00	58905.00				
	Rate in words								
	Rupees three hundred fifty seven only								
	(b) In 1st Floor	140.00	Sqm	362.36	50730.40				
	Rate in words								
	Rupees three hundred sixty two and paise thirty six only								
	(c) In 2nd. Floor	145.00	Sqm	367.72	53319.40				
	Rate in words								
	Rupees three hundred sixty seven and paise seventy two only								
	(d). In 3rd. Floor	145.00	Sqm	373.08	54096.60				
	Rate in words								
	Rupees three hundred seventy three and paise eight only								
11	Brickwork with 1st. class bricks in cement mortar (6:1)								P-30, I-22 (a) & (b)
	(i) In foundation and plinth.	25.00	Cum	5620.00	140500.00				

	Rate in words					
	Rupees five thousand six hundred twenty only					
	(a) In Superstructure, Ground floor.	9.00	Cum	5845.00	52605.00	
	Rate in words					
	Rupees five thousand eight hundred forty five only					
	(b) In Superstructure, 1st. floor.	27.00	Cum	5957.00	160839.00	
	Rate in words					
	Rupees five thousand nine hundred fifty seven only					
	(c) In Superstructure, 2nd. floor.	28.00	Cum	6069.00	169932.00	
	Rate in words					
	Rupees six thousand sixty nine only					
	(d) In Superstructure, 3rd. floor.	5.70	Cum.	6181.00	35231.70	
	Rate in words					
	Rupees six thousand one hundred eighty one only					
12	125 mm thick brickwork with 1st class bricks in cement mortar (4:1)					P-32, IT-29 P-34, IT-42(i) a,b
	(a) in Ground Floor	20.00	Sqm	772.00	15440.00	
	Rate in words					
	Rupees seven hundred seventy two only					
	(b) In 1st floor.	140.00	Sqm	784.00	109760.00	
	Rate in words					
	Rupees seven hundred eighty four only					
	(c) In 2nd floor.	145.00	Sqm	796.00	115420.00	
	Rate in words					
	Rupees seven hundred ninety six only					
	(d) In 3rd floor	67.00	Sqm	808.00	54136.00	
	Rate in words					
	Rupees eight hundred eight only					
13	supplying fitting and fixing approved type ventilator in position after cutting holes in walls, setting in cement mortar , mending damages to wall and plaster and two coats of paint of approved brand sand shade .R.C.C ventilator of 20mm.thick - Upto .10 sqm. area.	52.00	Each	117.00	6084.00	P-216 IT-22 (b(i))
	Rate in words					
	Rupees one hundred seventeen only					
14	Labour for Chipping of concrete surface before taking up Plastering work.	21.00	Sqm	1240.00	26040.00	P-216 IT-22 (b(i))
	Rate in words					
	Rupees one thousand two hundred forty only					
15	Plaster (to wall, floor, ceiling, etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding /staging where necessary. (Excluding cost of chipping over concrete surface.)					P- 164 IT- 2(ii) (a)(b)(c)
	(A) With 1:6 cement mortar 20 mm. thick plaster (Internal)					
	(a) Ground floor	55.00	Sqm	174.00	9570.00	
	Rate in words					
	Rupees one hundred seventy four only					
	(b) In 1st Floor	477.00	Sqm	178.00	84906.00	
	Rate in words					

	Rupees one hundred seventy eight only					
	(c) In 2nd. Floor	478.00	Sqm	182.00	86996.00	
	Rate in words					
	Rupees one hundred eighty two only					
	(d). In 3rd. Floor	37.00	Sqm	186.00	6882.00	
	Rate in words					
	Rupees one hundred eighty six only					
	(D)With 1:4 cement mortar (Inside) mm thick	10				P- 164, IT- 2(ii) (c)
	(a) In Ground Floor	280.00	Sqm	136.00	38080.00	
	Rate in words					
	Rupees one hundred thirty six only					
	(b) In 1st Floor	215.00	Sqm	140.00	30100.00	
	Rate in words					
	Rupees one hundred forty only					
	(c) In 2nd. Floor	214.00	Sqm	144.00	30816.00	
	Rate in words					
	Rupees one hundred forty four only					
	(d). In 3rd. Floor	30.00	Sqm	148.00	4440.00	
	Rate in words					
	Rupees one hundred forty eight only					
	(C)With 1:4 cement mortar (Inside) mm thick plaster(External)	15				
	(a) In Ground Floor	177.00	Sqm	171.00	30267.00	
	Rate in words					
	Rupees one hundred seventy one only					
	(b) In 1st Floor	193.00	Sqm	175.00	33775.00	
	Rate in words					
	Rupees one hundred seventy five only					
	(c) In 2nd. Floor	193.00	Sqm	179.00	34547.00	
	Rate in words					
	Rupees one hundred seventy nine only					
	(d). In 3rd. Floor	170.00	Sqm	183.00	31110.00	
	Rate in words					
	Rupees one hundred eighty three only					
16	25mm. thick Damp proof with cement concrete (1:1.5:3) with graded stone aggregate 10mm. Nominal size and painting the top surface with a coat of bitumen (VG. 40) using 1.7 kg./ sq.m. including heating the bitumen and cost and carriage of all materials complete.	2.00	Sqm.	298.00	596.00	P- 46 IT-12
	Rate in words					
	Rupees two hundred ninety eight only					
17	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame exluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be correted upto three decimals). Sal : Siliguri.					P-88 IT-1 (c)
	(a) In 1st floor	0.76	Cum	113867.00	86538.92	
	Rate in words					
	Rupees one lakh thirteen thousand eight hundred sixty seven only					
	(b). In 2nd floor	0.76	Cum.	114067.00	86690.92	
	Rate in words					

	Rupees one lakh fourteen thousand sixty seven only (c). In 3rd floor	0.04	Cum.	114267.00	4570.68	
	Rate in words					
	Rupees one lakh fourteen thousand two hundred sixty seven only					
18	Supplying fitting and fixing in position approved P.V.C. door frame (Matt finish) made of extruded P.V.C. multichamber hollow section having dimensions 60mm x 50mm x 2mm (+/-0.2mm), horizontal section will be joined with vertical section by galvanised steel screws after inserting two number steel brackets as reinforcement making suitable space for placing hinges, one steel tube 40mm x 20mm x 1.20 mm will be inserted on one full vertical side of the frame(hinge side) as reinforcement, the frame will then be fixed in the opening with the help of P.V.C. expandable fastner/wooden gutties and galvanised steel screws including cost of all materials and labour, hire charges of tools and appliances, carriage of all materials, taxes and all other incidental charges complete.	118.00	Mtr.	282.00	33276.00	P-151 IT-154
	Rate in words					
	Rupees two hundred eighty two only					
19	Supplying fitting and fixing P.V.C. door shutter of approved quality & shade in position, the style & rail of the P.V.C. door shutter will be made of rigid P.V.C. multicavity hollow chamber of 59 mm x30 mm section with 2.0 mm (+/-0.2 mm) wall thickness. Horizontal & vertical section shall be fixed to each other by self tapping screws and 1 solid polymeric or M.S. galvanised tubular 'L' shaped bracket 100mm x 200mm in each corner of the shutter frame for placing hinges. Polymer based multicavity hollow section of 120 mmx30mm with 2.0 mm (+/- 0.2 mm) wall thickness will be fitted in the middle, reinforced by solid polymer bar of 200 mm long at both ends and screws from both sides as lock rail. The section frame will then be fitted in by PVC panels of size 100 mmx25 mm with wall thickness of 1.2 mm (+/- 0.2 mm) and 2 nos. of 6 mm dia bright rod will be inserted horizontally with both side check and nut system and stretches where fixing of hinges / hasp bolt / tower bolt / door ring are required to be strong enough to with stand wear and tear. The rate is inclusive of cost of all materials, labour, and hire of tools and plants and appliances/c carriage of all materials taxes and all other incidental charges complete. An additional 5 mm thick P.V.C strip of 20 mm which is to be stuck on the interior side of the "c" channel using P.V.C solvent adhesive etc. Complete excluding all necessary hardwares as per direction of Engineer in charge.					P-153,It-155(B) IT- 152(a) (B)
	For Ground floor	36.00	Sqm.	2149.00	77364.00	
	Rate in words					
	Rupees two thousand one hundred forty nine only					

20	(b) Openable steel windows as per IS sizes with side hunge shutters and horizontal glazing bars, with or without fixed type ventolators (the extra rate admissible for the openable portion only.)					
	i) In ground Floor	1.13	Sq.M	2031.00	2295.03	
	Rate in words : Rupees two thousand thirty one only					
	ii) In 1st Floor	1.13	Sq.M	2055.37	2322.57	
	Rate in words : Rupees two thousand fifty five and paise thirty					
	iii) In 2nd Floor	1.13	Sq.M	2079.74	2350.11	
	Rate in words : Rupees two thousand seventy nine and paise seventy four only					
21	Two point nose steel handle inclu. Fitting and fixing					P-82, IT-33©(iv)
	i)In ground Floor	2.00	Each	41.00	82.00	
	Rate in words : Rupees forty one only					
	ii)In 1st Floor	2.00	Each	41.49	82.98	
	Rate in words : Rupees forty one and paise forty nine only					
	iii)In 2nd Floor	2.00	Each	41.98	83.96	
	Rate in words : Rupees forty one and paise ninety eight only					
22	M.S Integrated grill as per approved design integrated with steel window or ventilators joints continuously welded with MS Flats and bar					P-82, IT -33(c)(viii)
	(i) In Ground floor.	16.40	kg	85.00	1394.00	
	Rate in words Rupees eighty five only					
	(ii) In First floor.	16.40	kg	86.02	1410.73	
	Rate in words Rupees eighty six and paise two only					
	(iii) In 2nd floor.	16.40	kg	87.04	1427.46	
	Rate in words Rupees eighty seven and paise four only					
23	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. (in all floors for internal wall & upto 6 m height for external wall) 3 mm. thick (weighing 7.4 kg./sq.m.) insteel window					P-166, IT-1(i)
		3.90	Sq.M	544.00	2121.60	
	Rate in words : Rupees five hundred forty four only					
24	Panel shutters of door and window as per design inclu. Fitting and fixing the same in position but excluding the cost of hinge and other fittings . 25mm.thick shutters with 12mm. Thick panel of size 30 to 45 cm of Shshu, Gamar, Champ, Badam, Bhola, Mogra Hallak					P-105,IT-84(iv)(b)
	(i) In 1st floor	28.00	Sqm	2556.00	71568.00	
	Rate in words Rupees two thousand five hundred fifty six only					
	(ii) In 2nd floor	30.00	Sqm	2585.00	77550.00	

	Rate in words				
	Rupees two thousand five hundred eighty five only				
	(iii) In 3rd floor	2.00	Sqm	2614.00	5228.00
	Rate in words				
	Rupees two thousand six hundred fourteen only				
25	M.S. or W.I. Ornamental grill of approved design, joints continuously welded with M.S., W.I. flats and bars for windows railings, etc. fitted and fixed with necessary screws and lugs. Grill weighing above 10kg/sq.mtr and upto 16 Kg./sq. mtr.				P-78, IT -10(a)(i)
	(i) In Ground floor.	1.00	Qntl	8247.00	8247.00
	Rate in words				
	Rupees eight thousand two hundred forty seven only				
	(ii) In First floor.	4.21	Qntl	8329.47	35067.07
	Rate in words				
	Rupees eight thousand three hundred twenty nine and paise forty seven only				
	(iii) In 2nd floor.	4.36	Qntl	8411.94	36676.06
	Rate in words				
	Rupees eight thousand four hundred eleven and paise ninety four only				
26	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, floor etc. and making good damages complete (Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% for each addl. floor above 4th floor)				P-77, IT-15
	(a) In Ground floor	6.00	Sqm	4016.00	24096.00
	Rate in words				
	Rupees four thousand sixteen only				
27	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) (The concreting will have to be done for equivalent thickness of 2 layers of brick work and for the entire width of the wall. No deduction on brick work will be made).				P-90, IT -18 (b)©
	i) 40 mm x 6 mm. 200 mm Length	72.00	Each	28.00	2016.00
	Rate in words				
	Rupees twenty eight only				
	ii) 40 mm x 6 mm. 125 mm Length	140.00	Each	22.00	3080.00
	Rate in words				
	Rupees twenty two only				
28	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark				P-91, IT-20(iv)
	i) 75mm x 4.7mm x 1.7 mm	248.00	Each	34.00	8432.00
	Rate in words				
	Rupees thirty four only				

	ii) 100mm x 58mm x 1.9 mm	40.00	Each	52.00	2080.00	
	Rate in words					
	Rupees fifty two only					
29	Iron socket bolt of approved quality fitted and fixed complete.					P-93, IT -25©(d)
	a) 150mm long x 10mm dia bolt.	184.00	Each	71.00	13064.00	
	Rate in words :					
	Rupees seventy one only					
	b) 225mm long x 10mm dia bolt.	16.00	Each	87.00	1392.00	
	Rate in words :					
	Rupees eighty seven only					
30	Supplying iron catch hook with eye fitted and fixed to shutter and chowkat complete of best quality. 225 mm long x 6 mm dia bolt.	130.00	Each	73.00	9490.00	P-93, IT -24(b)
	Rate in words :					
	Rupees seventy three only					
31	Iron door ring of approved quality fitted and fixed with nut and washers complete. 50 mm. dia.	86.00	Each	19.00	1634.00	P-98, IT -59(a)(i)
	Rate in words :					
	Rupees nineteen only					
32	Iron Hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt and round fitting. (i) 250mm long	8.00	No	184.00	1472.00	P-97, IT -27(b)]
	Rate in words :					
	Rupees one hundred eighty four only					
33	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	180.00	Sq.M	41.00	7380.00	P-176 IT- 7(a)
	Rate in words					
	Rupees forty one only					
34	Priming one coat on steel surface or other metal surface with synthetic oil bound primer of approved quality and brand including smoothening surfaces by sand papering, etc.	67.00	sqm	31.00	2077.00	P-176 IT- 7 (b)
	Rate in words					
	Rupees thirty one only					
35	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surfaces by sand papering etc.including using of approved putty etc.on the surface, if necessary.					P-176,177, IT-8(A)(a) (b)(iv)
	a)On timber or plastered surface with other than high gloss (With any shade except white)	180.00	Sqm	89.00	16020.00	
	Rate in words					
	Rupees eighty nine only					
	b) On steel or other metal surface with other than high gloss (With any shade except white)	67.00	Sqm	86.00	5762.00	
	Rate in words					
	Rupees eighty six only					
36	Neat cement punning about 1.5mm thick in wall, dado, window sills, floor, drain etc.	336.00	Sqm	38.00	12768.00	P-152,IT-8
	Rate in words					
	Rupees thirty eight only					

37	White washing including cleaning and smoothening surface thoroughly. In all floors Two coats (on new works only).	1410.00	%Sq.M	1887.00	26606.70	P-169 IT- 3 (b)
	Rate in words					
	Rupees one thousand eight hundred eighty seven only					
38	Applying two coats of bonding agent with synthetic multifunctional rubber imulsion having adhesive and water proffing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) asper manufacturers specification .	151.00	Sqm.	97.00	14647.00	P-39 ,IT- 59 (a)
	Rate in words					
	Rupees ninety seven only					
39	Applying Exterior grade acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to received decorative textured (mat finished) or smooth finish acrylic exterior imulsion paint inclu. Scraping and preparing the surface thoroughly , complete as per manufacturers specification and as per diorection of E.I.C. Two coats					P-172, IT- 15 (b)
	(i) In Ground floor.	112.00	%Sq.M	4899.00	5486.88	
	Rate in words					
	Rupees four thousand eight hundred ninety nine only					
	(ii) In 1st floor	196.00	%Sq.M	4971.00	9743.16	
	Rate in words					
	Rupees four thousand nine hundred seventy one only					
	(iii) In 2nd floor	196.00	%Sq.M	5043.00	9884.28	
	Rate in words					
	Rupees five thousand forty three only					
	(iv) In 3rd floor	170.00	%Sq.M	5115.00	8695.50	
	Rate in words					
	Rupees five thousand one hundred fifteen only					
40	Protective and decorative acrylic exterior emulsion paint of approved quality as per manufacturer specification and as per direction of E.I.C. To be applied over acrylic primer as required. The rate inclu. Cost of material , labour scaffolding and all incidental charges but excluding the primer - Two coats Normal acrylic emulsion					P-173,174 IT- 19 (a) (iii),20(i)
	(i) In Ground floor.	112.00	sqm	73.00	8176.00	
	Rate in words					
	Rupees seventy three only					
	(ii) In First floor.	196.00	sqm	73.72	14449.12	
	Rate in words					
	Rupees seventy three and paise seventy two only					
	(iii) In 2nd floor.	196.00	sqm	74.44	14590.24	
	Rate in words					
	Rupees seventy four and paise forty four only					
	(iv) In 3rd floor.	170.00	sqm	75.16	12777.20	
	Rate in words					

	Rupees seventy five and paise sixteen only				
	PART 'B' : SANITARY & PLUMBING WORKS				
	Construction of septic tank as per approved drawing with 1st. Class brick work in cement mortar (4:1) including two 560mm. dia R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the 100mm. Thick R.C.C. (1:1.5:3) top slab with necessary fittings, 20mm. thick cement plaster (4:1) with neat cement finish to the internal surfaces and 15mm. thick cement plaster (4:1) to outside wall upto 200mm. below G.L. floor finish with 25mm. thick grey artificial stone over 100mm. thick R.C.C. (1:1.5:3) bottom slab including supplying, fitting and fixing all 20 users	1.00	Each	51951.00	51951.00
	Rate in words :				
	Rupees fifty one thousand nine hundred fifty one only				
42	Construction of circular Soak well 2.5M. Deep in all types of sandy soils with dry brick work upto 1.60 m. From the bottom having 150 mm. Intermediate cement brick work (6:1) band all round and cement brick work (6:1) upto 0.90m. From top with 19 mm. thick cement plastering (4:1) to inside face upto the depth of cement brick work 12mm. thick plaster (4:1) on outer face from top of the well upto G.L. and 6mm. thick cement plaster (4:1) on top of the RCC cover slab inclu. filling bottom 1.00m. of inside of the well with brick metal (50mm. to 63 mm. size) inclu. RCC cover slab of designed thickness with cement concrete (4:2:1) with stone chips with necessary reinf. and shuttering inclu. one 560 mm. dia. RCC Manhole cover of approved make. supplied fitted and fixed in the cover slab with necessary fittings making necessary arrangements for pipe connections . excavations of well inclu. shoring , dewatering and removing the excess earth from the premises as per direction complete in all respect with the costs of labour and materials. 250 mm. thick dry brick work and 250 mm. thick cement brick work (6:1) and 1.00 M. inside dia.	1.00	Each	17652.00	17652.00
	Rate in words :				
	Rupees seventeen thousand six hundred fifty two only				
					Schedule of rates PWD Sanitary & Plumbing, (vol.-II) Effective from 1st-December-2015 P-84, I- 3(ii),(a)
					B-(IV)P-85,I-4 I - 4

43	Constructing Inspection pit of inside measurement 600mm X 600mm X upto 600mm (depth) with 250 mm thick 1st. class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100 mm thick cement concrete (1:3:6) with stone chips over a layer of jhama brick flat soling, 15 mm thick (1:4) cement plaster to inside walls and out side walls upto G.L. and 20 mm.thick (1:4) plaster to bottom of the pit, providing necessary invert with cement concrete (1:3:6) with stone chips as per direction, neat cement finishing to entire internal surfaces, top of the pit covered with 100 mm thick R.C.C. slab (1:1.5:3) with stone chips and necessary reinforcements upto 1% and shuttering including 6 mm thick cement plaster (1:4) in all external surfaces of the slab and one 560 mm dia. R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earthwork in excavation in all sorts of soil, filling sides of the pit with earth and removing spoils after work complete in all respect with all costs of labour and materials.	2.00	Each	7699.00	15398.00	Pg-81,IT-I,B (IV)
	Rate in words :					
	Rupees seven thousand six hundred ninety nine only					
44	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. (a) With 'P' trap	8.00	Each	1776.00	14208.00	P-74, 2-(a)
	Rate in words :					
	Rupees one thousand seven hundred seventy six only					
45	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws complete. (a) E.W.C.					P-76, 10-(a)(iv)B-(III)
	(iv) Bestolite (solid type) white	8.00	Each	846.00	6768.00	
	Rate in words :					
	Rupees eight hundred forty six only					
46	Supplying Flat Back Urinal in white vitreous Chinaware of approved make supplied, fitted and fixed in position with brass screws on 75mm X 75 mm. X75mm. Wooden blocks complete 465mm. X365 mm X 265 mm.					P-75, I-6(ii),B-(III)
	Rate in words :	4.00	Each	2990.00	11960.00	
	only					
47	Supplying, fitting and fixing Squating plate with integral flushing in white vitreous chinaware of approved make in cement concrete (6:3:1) with jhama chips complete.(Payment of concrete will be paid seperately).					P-75, I-7(i)
	(i) 450 mm X 350 mm	2.00	Each	1103.00	2206.00	
	Rate in words :					
	Rupees one thousand one hundred three only					

48	Supplying fitting and fixing vitreous China based 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 PVC connection pipe with heavy brass CP. nut ionclu. mending good all damages and painting the brackets with two coats of approved paint . 450 mm. X 300 mm. Size	3.00	Each	2207.00	6621.00	P-37, I-2(i),A-(IV)
	Rate in words : Rupees two thousand two hundred seven only					
49	Supplying, fitting and fixing 10 litre P.V.C. low down cistern conforming to I.S. specification with P.V.C. fitting complete C.I. brackets including two coats of painting to bracket etc.	8.00	Each	1181.00	9448.00	P-31, I-2,A-(IV)
	Rate in words : Rupees one thousand one hundred eighty one only					
50	Supplying fitting and fixing approved brand PVC connector white flexible with both s coupling with heavy brass C.P. Nut - 15mm. Dia. 750 mm. Long.	16.00	Each	138.00	2208.00	P-39, I-9(iv)
	Rate in words : Rupees one hundred thirty eight only					
51	Supplying fitting and fixing approved brand PVC waste pipe with coupling at one end fitted with C.P. Over brass nut 32 mm.dia. - 750 mm. Long	7.00	Each	69.00	483.00	A-(IV),P-39, I-10(ii)
	Rate in words : Rupees sixty nine only					
52	supplying fitting and fixing Shower rose of approved brand and make Chromium plated round shower with revolving joint , 100mm. Dia. With rubid cleaning system . Essco brand	6.00	Each	576.00	3456.00	P-12, I-3(a)(i)
	Rate in words : Rupees five hundred seventy six only					
53	Supplying fitting and fixing 15 mm. Dia. Bib cock or stop cock i)Chromium plated Bib cock long body with wall frange aerator (Equivalent to code no. 512 and model tropical . Essco brand)	20.00	Each	843.00	16860.00	P-5, I-7(a)(ii),(b)(i)
	Rate in words : Rupees eight hundred forty three only					
	ii)Chromium plated Stop cock (Equivalent to code no. 513(A) & 513(B) and model tropical . Essco brand)	28.00	Each	629.00	17612.00	
	Rate in words : Rupees six hundred twenty nine only					
54	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	4.00	Each	792.00	3168.00	P-77, I-19, B-(III)
	Rate in words : Rupees seven hundred ninety two only					

55	Supplying, fitting and fixing towel rail with two brackets.(a) C.P. over brass (ii) 25 mm dia. and 750 mm long	8.00	Each	613.00	4904.00	P-77, I-22, (a)-(iii)
	Rate in words : Rupees six hundred thirteen only					
56	Supply of UPVC pipes (B type)& fittings conforming to IS:13592-1992					P-69, I-23(b)(xv)(ii)(i),(xvi)(ii)(i),(b)(ii)(a)(b),ix(a)(b),
	i) Single socketed 3 Metre length- 75mm dia	16.00	M	234.00	3744.00	
	Rate in words : Rupees two hundred thirty four only					
	ii) Single socketed 3 Metre length - 110 mmdia	65.00	M	348.00	22620.00	
	Rate in words : Rupees three hundred forty eight only					
	iii) Double socketed 1.8 Metre length- 75 mmdia	3.60	M	243.00	874.8	
	Rate in words : Rupees two hundred forty three only					
	iv) Double socketed 1.8 Metre length - 110 mm dia	3.60	M	350.00	1260.00	
	Rate in words : Rupees three hundred fifty only					
	v)Double socketed 1.20 metre length - 75 mmdia	2.40	M	262.00	628.80	
	Rate in words : Rupees two hundred sixty two only					
	vi)Double socketed 1.20 metre length - 110 mmdia	2.40	M	384.00	921.60	
	Rate in words : Rupees three hundred eighty four only					
	vii)Double socketed 0.9 metre length - 75 mmdia	0.90	M	270.00	243.00	
	Rate in words : Rupees two hundred seventy only					
	viii)Double socketed 0.9 metre length - 110 mmdia	0.90	M	387.00	348.30	
	Rate in words : Rupees three hundred eighty seven only					
	(ix)Door Tee - 75mmdia	10.00	Nos.	120.00	1200.00	
	Rate in words : Rupees one hundred twenty only					
	(x)Door Tee - 110 mmdia	10.00	Nos.	233.00	2330.00	
	Rate in words : Rupees two hundred thirty three only					
	(xi)Door Bend - 75mmdia	10.00	Nos.	99.00	990.00	
	Rate in words : Rupees ninety nine only					
	(xii)Door Bend -110 mmdia	10.00	Nos.	176.00	1760.00	
	Rate in words : Rupees one hundred seventy six only					
	(xiii)Double Y With Door- 75 mm	10.00	Nos.	256.00	2560.00	
	Rate in words : Rupees two hundred fifty six only					
	(xiv)Double Y With Door- 110 mm	10.00	Nos.	411.00	4110.00	
	Rate in words : Rupees four hundred eleven only					

	(xv)Vent Cowl-110 mm dia.	5.00	Each	39.00	195.00	
	Rate in words :					
	Rupees thirty nine only					
	(xvi)Plain Tee-110 mm dia.	8.00	Each	182.00	1456.00	
	Rate in words :					
	Rupees one hundred eighty two only					
	(xvii)Bend 87.5 degree-110 mm dia.	7.00	Each	143.00	1001.00	
	Rate in words :					
	Rupees one hundred forty three only					
	(xviii)pipe Clip-110 mm dia.	58.00	Each	25.00	1450.00	
	Rate in words :					
	Rupees twenty five only					
	(xix)Vent Cowl-75 mm dia.	3.00	Each	30.00	90.00	
	Rate in words :					
	Rupees thirty only					
	(xx)Plain Y-75 mm dia.	4.00	Each	122.00	488.00	
	Rate in words :					
	Rupees one hundred twenty two only					
	(xxi)Plain Tee-75 mm dia.	7.00	Each	95.00	665.00	
	Rate in words :					
	Rupees ninety five only					
	(xxii)Bend 87.5 degree-75 mm dia.	8.00	Each	73.00	584.00	
	Rate in words :					
	Rupees seventy three only					
	(xxiii)piper Clip-75 mm dia.	27.00	Each	19.00	513.00	
	Rate in words :					
	Rupees nineteen only					
57	Supplying PVC water storage Tank of approved quality with close top with lid. 1500 litre capacity	2.00	Each	9343.00	18686.00	P-32, A-IV, I-6(c)
	Rate in words :					
	Rupees nine thousand three hundred forty three only					
58	Labour for hoisting plastic storage tank	2.00	Each	185.00	370.00	P-32, IT-10(i) (a), A-IV.
	Rate in words :					
	Rupees one hundred eighty five only					
59	Labour for punching hole in plastic storage tank upto 50 mm. Dia.	3.00	Each	19.00	57.00	P-33, it-13,A-(IV)
	Rate in words :					
	Rupees nineteen only					
60	Supplying fitting fitting and fixing PVC pipes of approved make conforming to ASTM D -1785& threaded to match with G.I. Pipes as per I.S. 1239 with all necessary accessories specials socket bend, union. Tee. Elbow, nipple, long screw,R. Soocket , shortpiece etc. fitted with holder bat clamps jointing materials and two coats of painting with approved paint in any position above ground (payment will be made on the center line measurement of total pipe line inclu. all specials . Payment for painting will be made seperately . For Exposed Work					P-19, I-19(i)(a)
	i) 15mm dia.	40.00	Metre	106.00	4240.00	
	Rate in words :					
	Rupees one hundred six only					

	ii)20mm. Dia.	57.00	Metre	136.00	7752.00		
	Rate in words :						
	Rupees one hundred thirty six only						
	iii)25mm. Dia.	62.00	Metre	186.00	11532.00		
	Rate in words :						
	Rupees one hundred eighty six only						
	<u>PART-C,WATER SUPPLY WORKS INCLUDING INSTALLATION OF PUMP</u>						
61	Labour for boring tube well of required dia. By water jet system through any type of soil strata including hire and labour charges for boring pipes, scaffolding, tools and plants as necessary and taking out them and lowering pipes, strainers, blind pipe etc. and fitting and fixing the same complete including bucket washing and other including works in the connection. The tube well should have a minimum 50 mm gap in between the outside of the tubewell pipe and the bore.					P-46,A-(VI) 1(c)(i)(ii).b(i)	I-
	a)For depth upto 150 metre for 40 mm dia. Tube well with top enlargement of 80 mm dia.						
	i)80 mm dia. Boring etc. Top enlargement.	36.00	Metre	290.00	10440.00		
	Rate in words :						
	Rupees two hundred ninety only						
	ii)40 mm dia. Boring etc.	120.00	Metre	149.00	17880.00		
	Rate in words :						
	Rupees one hundred forty nine only						
	b)For depth more than 150 metre.						
	40 mm dia. Boring etc. Beyond 150 metre.	30.00	Metre	112.00	3360.00		
	Rate in words :						
	Rupees one hundred twelve only						
62	Supplying of PVC pipes & fittings (medium duty) conforming to ASTM D - 1785 and threaded to match with GI pipes as per IS: 1239 (part - 1). PVC pipe					P-11,A-(II) 19(III)(A)	I-
	i)80 mm dia.	36.00	Metre	610.00	21960.00		
	Rate in words :						
	Rupees six hundred ten only						
	ii)40 mm dia.	140.00	Metre	219.00	30660.00		
	Rate in words :						
	Rupees two hundred nineteen only						
	iii) 32 mm dia	18.00	Metre	179.00	3222.00		
	Rate in words :						
	Rupees one hundred seventy nine only						
63	Supplying PVC strainer of approved make with adapter conforming to I.S.12818 specifications.					A-(VI),P-48, I-6(i)	
	40 mm dia.	10.00	Metre	349.00	3490.00		
	Rate in words :						
	Rupees three hundred forty nine only						
64	Supplying, of G.I. Pipes of TATA make including necessary sockets.					P-96, I-1(h)(ii)	
	80 mm dia. Medium quality.	1.00	Metre	785.00	785.00		
	Rate in words :						
	Rupees seven hundred eighty five only						
65	Supplying, fitting and fixing steel cutter piece upto 450 mm long with sockets.					P-49, I-9.(i),A-(VI)	

	40 mm dia.	1.00	Each	147.00	147.00	
	Rate in words :					
	Rupees one hundred forty seven only					
66	Supplying, fitting and fixing plug of approved make conforming to I.S. Specifications.					P-49, I-10(i),A-(VI)
	40 mm dia.	1.00	Each	61.00	61.00	
	Rate in words :					
	Rupees sixty one only					
67	Supplying, fitting and fixing heavy type bell mouth reducing socket.					P-15,A-II, I-19(III)(L)
	40 mm x 80 mm	1.00	Each	143.00	143.00	
	Rate in words :					
	Rupees one hundred forty three only					
68	Supply of galvanised iron socket with I.S.I. Mark.					P-92, I-2(v)
	40 mm dia.	6.00	Each	82.00	492.00	
	Rate in words :					
	Rupees eighty two only					
69	Supply of G.I. Pipes of TATA make including necessary sockets.					P-96, I-1(e)(ii)
	40 mm dia. Medium quality.	30.00	Metre	270.00	8100.00	
	Rate in words :					
	Rupees two hundred seventy only					
70	Labour for fitting fixing jointing and lowering 40 mm dia. Delivery pipe with submersible pump etc incl. cutting threading of pipes and fitting fixing panel Board with electric line etc complete					L.S
	Rate in words :					
	only		L.S		1000.00	
71	Constructing masonry platform 1.20m x 1.20m incl 1.0 mtr. Long drain with 75mm thick. Cement concrete (6:3:1) with graded stonechips over a layer of picked jhama brick flat soling 125mm x 75 mm brick band on edge with a base concrete (4:2:1) of 250mm x 250mm & 150mm depth and a step 450mm x 450mm with brick incl 15 mm thk. cement plaster (4:1) with a neat cement finishing all sides 15mm thk. to exposed surface complete.	1.00	No.	2999.00	2999.00	Analysed Rate
	Rate in words :					
	Rupees two thousand nine hundred ninety nine only					
	Carriage of tube materials		L.S	1000.00	1000.00	
	Rate in words :					
	Rupees one thousand only					
72	Collecting sample of water for bacteriological and chemical test from any depth at any any time during execution of work incl. hire and labour charges for tools and plants and sterilising the equipments,paying all charges and fees,testing etc complete in all respect as per direction.					A-(VI) ,Item No-23
		1.00	Each	1243.00	1243.00	
	Rate in words :					
	Rupees one thousand two hundred forty three only					

73	Washing and developing tube well with air compressor pump and engine for 8 (eight) hours continuous pumping per day with necessary arrangements for testing the yield in gallons per hour with 'V' notch including hire and labour charges for all tools and plants and scaffolding as required.	2.00	Day	7613.00	15226.00	P-51, I-20,A -(VI)
	Rate in words : Rupees seven thousand six hundred thirteen only					
74	Supplying , of 1.5 HP submersible pump set and other accessories with fitting and fixing suitable for 80 mm bore well having IS specification Varuna / KSB (Outlet size-32mm) brand and ISO -9001-2008,standard voltage 20-0-249 volt/Motor single phase 50 hz,supply head 60.0 mtr/discharge 3.80 L.P.M modelno V 3 WF/1HP/0.76 KW/12 Stage.	1.00	Each	18572.00	18572.00	Local Market Price
	Rate in words : Rupees eighteen thousand five hundred seventy two only					
<u>PART-D, ELECTRICAL WORKS</u>						
75	(works to be carried out in accordance With the mentioned schedule of rates (Electrical) specified in special terms and condition)	1.00	L.S.	200000.00	200000.00	Schedule of rates PWD Electrical Works, Effective from(Vol-1) 8th. August & 1st.
	Rate in words : Rupees two lakh only					
76	Supply and delivery of 2.5 sq. mm 3 core PVC insulated 1.1 KV grade flat submersible cable (Havel/Phi) CALCULATION OF PRICE OF AL/CU PVC /XLPE INSULATED [K-14 of PWD (Electrical Schedule] N.B.- All rates of materials from K-1 to K-14 are excluding VAT DESCRIPTION-AMOUNT (RS.) List Price of cable ----- Z Discount @ 35% ----- (-)0.35 Z -----0.65Z Excise Duty @ 12.36 % (+) = 0.08 Z ----- -----Total-----= 0.73 Z VAT @ 5% -----(+)= 0.037 Z -----total----- -----= 0.767 Z Add @ 10% Profit ----- ----(+)= 0.077 Z ----- -----Total Rate Rs. ----- =0.844 Z PER Mtr., i.e , "Z" = Rs. 125.00	60.00	Mtr.	105.50	6330.00	PWD ELEC-item-K-14
	Rate in words : Rupees one hundred five and paise fifty only					
77	Supplying fitting and fixing G.I. cap at Top	1.00	Nos.	598.00	598.00	A-(V) ,Item No-18 (i)
	Rate in words : Rupees five hundred ninety eight only					
78	Supplying,fitting and fixing M.S Socket Ring	1.00	Nos.	126.00	126.00	A-(V) ,Item No-19 (i)
	Rate in words :					

	Rupees one hundred twenty six only					
79	Supplying , fitting, fixing, jointing & lowering 32mm dia delivering pipe with submersible pump etc incl cutting threading of pipes and fitting, fixing etc comp	1.00	item	500.00	500.00	Local Market Price
	Rate in words :					
	Rupees five hundred only					
80	Supply of motor control panel suitable of the supplied submersible pump, motor incl. start stop bush button Ammeter, Voltmeter reset button, conector, capasitor etc as necesery complete as per E.I.C	1.00	set	3200.00	3200.00	Local Market Price
	Rate in words :					
	Rupees three thousand two hundred only					
81	Supply of delivery of 16 Amps SPN Main switch having rewireble type fused grip make havels/standard	1.00	item	447.00	447.00	Local Market Price
	Rate in words :					
	Rupees four hundred forty seven only					
				Total Rs.	6093502.62	
				Total Estimated Amount	Rs. 6093502.62	
				Say Rs.	6093503.00	
	Rupees sixty lakh ninety three thousand five hundred three only					

S. B. Das
Sub-Assistant Engineer

K. K. Das
17.8.16
Assistant Engineer

S. K. Das
18.8.16
Executive Engineer-VII

V. K. Das
26.08.16

Sanjit Bose
Deputy Chief Engineer-II
Howrah Improvement Trust
(Under U. D. Deptt. Govt. of W.B.)