

**Estimate for Repair & renovation works of Helencha Central Hostel, Bagdah for SC Boys under  
Bagdah Block, District- North 24\_Parganas of Backward Classes Welfare Department  
(As per PWD Schedule of Rates w.e.f. 01.11.2017)**

Sl. No.	Description of Items	Quantity	Unit	Rate (in Rs.)	Amount (in Rs.)
1	<u>P.No.10., I.No.2</u> <i>Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75m. In ground floor including roof</i>				
	(a) up to 150 mm. thick:- $1 \times 1.700m \times 1.700m \times 0.150m = 0.433 \text{ CuM}$ $1 \times 1.100m \times 1.200m \times 0.150m = 0.198 \text{ CuM}$ <u>0.631 CuM</u>	0.631 CuM	CuM	939.00	592.51
	(b) above 150 mm. thick:- $1 \times 1.700m \times 1.700m \times 0.240m = 0.694 \text{ CuM}$ $1 \times 1.100m \times 1.200m \times 0.250m = 0.330 \text{ CuM}$ <u>1.024 CuM</u>	1.024 CuM	CuM	1417.00	1451.01
2	<u>P.No.15., I.No.7</u> <i>Brick work with 1st class bricks in cement mortar (1:4) In 1<sup>st</sup> Floor:-</i>				
	Base of Water Tank:- $3 \times 1.700m \times 0.250m \times 0.275m = 0.351 \text{ CuM}$ $3 \times 1.200m \times 0.250m \times 0.275m = 0.247 \text{ CuM}$ <u>0.598 CuM</u>	0.598 CuM	CuM	6016.00	3597.57
3	<u>P.No.26., I.No.10</u> <i>Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. (i) Pakur Variety</i>				
	In 1 <sup>st</sup> Floor Base Slab of Water Tank:- $1.700m \times 1.700m \times 0.125m = 0.361 \text{ CuM}$ $1.100m \times 1.200m \times 0.125m = 0.165 \text{ CuM}$ <u>0.526 CuM</u>	0.526 CuM	CuM	6595.27	3469.11
4	<u>P.No.43., I.No.40</u> <i>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) For works in foundation and upto roof of ground floor/upto 4 m (i) Tor steel/Mild Steel II. Other than SAIL/ TATA/RINL</i>				
	Base Slab of Water Tank:- $1.50\% \times 0.526 \text{ CuM} \times 78.50 \text{ Qntl} = 0.619 \text{ Qntl} = 0.062 \text{ MT}$	0.062 MT	MT	60580.00	3755.96
5	<u>P.No.189., I.No.1</u> <i>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. (i) With 1:6 cement mortar (c) 15 mm thick plaster</i>				
	Base of Water Tank:- $3 \times 2 \times 1.700m \times 0.400m = 4.080 \text{ SqM}$ $3 \times 2 \times 1.200m \times 0.400m = 2.880 \text{ SqM}$ $1.700m \times 1.700m = 2.890 \text{ SqM}$ $1 \times 1.700m \times 0.125m = 0.212 \text{ SqM}$ $1.200m \times 1.100m = 1.320 \text{ SqM}$ $2 \times 1.100m \times 0.125m = 0.275 \text{ SqM}$ <u>11.657 SqM</u>	11.657 SqM	SqM	151.00	1760.21

6	<u>P.No.192., I.No.15</u> Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc.					
	Base of Water Tank:- 3 x 2 x 1.700m x 0.400m=4.080SqM 3 x 2 x 1.200m x 0.400m=2.880 SqM 1.700m x 1.700m=2.890 SqM 1 x 1.700m x 0.125m=0.212 SqM 1.200m x 1.100m=1.320 SqM 2 x 1.100m x 0.125m=0.275 SqM 11.657SqM	11.657SqM	SqM	34.00	396.34	
7	<u>P.No.81., I.No.9</u> 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:- b) With 0.63 mm thick sheet- 3.000m x 6.500m=19.500 SqM	19.500 SqM	SqM	644.00	12558.00	
8	<u>P.no.205., I.no.1</u> Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. (In all floors for internal wall & upto 6 m height for external wall)					
	(ii) 4 mm thick In Ground Floor:- 2 x 0.400m x 0.350m=0.280 SqM	0.280 SqM	SqM	536.00	150.08	
9	<u>P.no.114., I.no.1</u> 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 excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals). (d) Sal : Local					
	1 <sup>st</sup> Floor Stair Door:- 0.950m x 0.075m x 0.075m=0.005 CuM 2 x 2.125m x 0.075m x 0.075m=0.024 CuM 0.029 CuM	0.029 CuM	CuM	77871.00	2258.26	
10	<u>P.no.117., I.no.1</u> Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings					
	(iii) 35mm thick shutters with 19mm thick panel of size 30 to 45 cm. (b) Sishu, Gamar, Champ, Badam, Bhola, Mogra, Hallak					
	1 <sup>st</sup> Floor Stair Door:- 0.800m x 2.125m=1.700 SqM	1.700 SqM	SqM	3148.00	5351.60	
11	<u>P.no.140., I.no.5</u> Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark.					
	(iv) 75mm. X 47mm. X 1.70mm.- 6 nos	6 nos	Each	31.00	186.00	
12	<u>P.no.141., I.no.8</u> Iron socket bolt of approved quality fitted and fixed complete					
	(b) 100mm long x 10mm dia bolt.- 1 no	1 no	Each	40.00	40.00	
13	<u>P.no.145., I.no.30</u> Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete:					
	(a) With continuous plate base (Hexagonal/ Round rod) (ii) 100 mm grip x 10 mm dia rod.- 2 nos	2 nos	Each	69.00	138.00	
14	<u>P.no.200., I.no.2</u> A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary					

	(a) On timber or plastered surface :				
	With super gloss (hi-gloss) -				
	(iv) Two coats (with any shade except white)				
	0.950m x 2.200m x 3.60= 7.524SqM	7.524SqM	SqM	81.00	609.44
15	<u>P.no.37., I.no.6(S&amp;P Schedule)</u> Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer				
	(b) 1000 litre capacity- 1 no	1 no	each	5128.00	5128.00
	(d) 2000 litre capacity- 1 no	1 no	each	10434.00	10434.00
16	<u>P.no.212., I.no.21</u> Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complet				
	A) UPVC Pipes:- (ii) 110 mm. Dia.-50.000m	50.000m	Metre	251.00	12550.00
	B) UPVC Fittings:				
	a) Plain Tee:- (ii) 110 mm. Dia.- 16 nos	16 nos	Nos	172.00	2752.00
	d) Shoe:- (ii) 110 mm. Dia.-16 nos	16 nos	Nos	111.00	1776.00
17	<u>P.no.12., I.no.19(I) (S&amp;P Schedule)</u> Supplying, fitting and fixing PVC pipes of approved make of <b>Schedule 80(medium duty)</b> 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, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately)				
	<b>(a) For Exposed Work</b> <b>PVC Pipes</b>				
	40 mm Dia Pipe- 42.000m	42.000m	metre	292.00	12264.00
	25 mm Dia Pipe-190.000m	190.000m	metre	177.00	33630.00
	15 mm Dia Pipe-15.000m	15.000m	metre	101.00	1515.00
18	<u>P.no.5., I.no.5 (S&amp;P Schedule)</u> Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only).				
	(v) 40 mm dia- 7nos	7 nos	each	1590.00	11130.00
19	<u>P.no6., I.no.7 (S&amp;P Schedule)</u> Supplying, fitting and fixing bib cock or stop cock.				
	(e) PTMT (Polytetra Bib Cock / Stop Cock ( Prayag or equivalent) 15 mm- 24nos	24 nos	each	154.00	3696.00
20	<u>P.no.43., I.no.9 (S&amp;P Schedule)</u> 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.				
	(iii) 600 mm long-14 nos	14 nos	each	107.00	1498.00
21	<u>P.no.45., I.no.19 (S&amp;P Schedule)</u> Supplying, fitting and fixing pillar cock of approved make				
	b) PTMT Pillar Cock - 15 mm. (Prayag or equivalent)- 7 nos	7 nos	each	222.00	1554.00
22	<u>P.no.3., I.no.3 (S&amp;P Schedule)</u> Supplying, fitting and fixing shower of approved brand and make				

	(g) PTMT overhead shower ( Prayag or equivalent)				
	(ii) 150 mm round-6 nos	6 nos	each	340.00	2040.00 ✓
23	<u>P.no.6., I.no.7 (S&amp;P Schedule)</u> (d) (i) Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand- 16 nos	16 nos	each	815.00	13040.00 ✓
24	<u>P.no.36., I.no.1 (S&amp;P Schedule)</u> Supplying, fitting and fixing 10 litre porcelain low-down cistern of approved make with either side or bottom inlet, side overflow, brackets complete with all internal PVC fittings. White- 3 nos	3 nos	each	2297.00	6891.00 ✓
25	<u>P.no.79., I.no.3 (S&amp;P Schedule)</u> 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.				
	(b) With 'S' trap (with vent)- 1 no	1 no	each	3287.00	3287.00 ✓
26	<u>P.no.82., I.no.19 (S&amp;P Schedule)</u> 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- 2 nos	2 nos	each	613.00	1226.00 ✓
27	<u>P.no.43., I.no.10 (S&amp;P Schedule)</u> Supplying, fitting and fixing approved brand 32 mm dia. P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps.				
	(ii) 750 mm long- 7 nos	7 nos	each	59.00	413.00 ✓
28	<u>P.no.74., I.no.23(D) (S&amp;P Schedule)</u> Solvent Cement- 250 ML	250 ML	250 ML	103.00	103.00 ✓
29	<u>P.no.240, I.no.2</u> (B) Partly glazed partly panelled or fully glazed single leaf aluminium swing door made of extruded and anodized alloy aluminium sections, fabrication including cutting to proper shape and size, drilling and aligning, fitted with heavy duty hydraulic action floor spring placed in the floor with mending damages, with top pin assembly of approved make and brand, fitted with in built locking arrangement, flush bolt, glazing clips and all other necessary fittings, fixtures, adhesives and joineries, cutting glass of approved make to requisite shape and size fitting with dry set neoprene or EPDM gasketing, cutting to requisite shape and size panel board (prelaminated particle block) fixing them with glazing clips as per drawing, specification and direction of Engineer in charge. Night Guard Room:- 0.900m x 1.550m = 1.395 SqM	1.395 SqM	SqM	1281.00	1786.99 ✓
30	<u>P.no.241, I.no.2</u> (D) Partly glazed and partly panelled partition or fixed glazing made of extruded and anodised alloy aluminium sections, fabrications after cutting to proper shape and size, drilling and aligning fitted with inbuilt locking arrangement cutting the glass / board (prelaminated / particle /block) to requisite shape and size moulding the edges fitted and fixed glazing clips and dry set neoprene /EPDM gasket, along with all other necessary arrangements for fixing the partition to walls, floors, beams, columns polysulphide sealant for water proofing if necessary complete in all respect as per drawing and specifications and direction of the Engineer in charge. <b>I) For partitions using section of size:</b> a) 63.50 mm x 38.10 mm Night Guard Room:- 1.250m x 1.550m = 1.937 SqM	1.937 SqM	SqM	728.00	1410.14 ✓
31	<u>P.no.234, I.no.1</u> Supplying profiles of required section made of Aluminium Alloy Extrusions conforming to IS: 732-1983 and IS: 1285- 1975; Anodized (with required film thickness and specified colour / natural) matt				

	<p>finished conforming to IS: 1868-1983 for fabrication of composit door, sliding &amp; casement windows, partitions, formed of basic sections of any ISI embossed / certified make and brand as per direction of Engineer - In-Charge. (Payment will be made on finished length of the work).</p> <p>(A) In 10-12 Micron thickness Anodizing film</p> <p>l) Natural white</p> <p>k) Movable door shutter.</p> <p>i) Door frame. (Top &amp; sides). Night Guard Room Door:- 0.900m + 2 x 1.550m=4.000m</p> <p>ii) Shutter :- Top rail.-0.900m Bottom rail:- 0.900m. Lock rail:- 0.900m Door vertical.:- 3 x 1.550m=4.650m Glazing cleap.-6 x 0.900m + 4x1.550m=11.600m</p> <p>j) Fixed partitions. (Unsupported length of vertical member upto 1.5 mtr. Height of both ends of vertical member restrained but panels within 0.9 sq.m.)</p> <p>i) Top , bottom &amp; side member:- 2x1.250m+2x1.550m=5.600m</p> <p>ii) Intermediate member:- 2x1.250m+4x1.550m=8.700m</p>	<p>4.000m</p> <p>0.900m</p> <p>0.900m</p> <p>0.900m</p> <p>4.650m</p> <p>11.600m</p>	<p>Metre</p> <p>Metre</p> <p>Metre</p> <p>Metre</p> <p>Metre</p> <p>Metre</p>	<p>315.00</p> <p>304.00</p> <p>448.00</p> <p>377.00</p> <p>332.00</p> <p>50.00</p>	<p>1260.00 ✓</p> <p>273.60 ✓</p> <p>403.20 ✓</p> <p>339.30 ✓</p> <p>1543.80 ✓</p> <p>580.00 ✓</p>
32	<p>P.no.242,l.no.3</p> <p>Supplying heavy duty hydraulic double action floor spring along with top pin/set of pivots conforming to IS: 6315 or any approved make as per direction of Engineer in charge.</p> <p>Night Guard Room Door:- 1set</p>	1 set	Each set	1729.00	1729.00 ✓
33	<p>P.no.242,l.no.5</p> <p>Supplying concealed type heavy duty PVC headed aluminium tower bolt for double leaf doors as per approved make and brand as per direction of Engineer-in-Charge.</p> <p>(a) 200 mm long:- 1 no</p>	1 no	Each	61.00	61.00 ✓
34	<p>P.no.242,l.no.7</p> <p>Supplying maruti lock (100mm):- 1Pair</p>	1 pair	Pair	46.00	46.00 ✓
35	<p>P.no.242,l.no.8</p> <p>Supplying EPDM gasket of approved make and brand as per direction of Engineer in charge.</p> <p>iii) weather gasket / wool pile for door vertical. 2x1.550m+6x0.900m+2x1.550m+6x1.250m=19.100m</p>	19.100m	Metre	19.00	362.90 ✓
36	<p>P.no.243,l.no.9</p> <p>Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.</p> <p>viii) 8mm thick coloured / tinted / smoke glass 1.550mx0.900m+1.250mx1.550m=3.332SqM</p>	3.332SqM	SqM	907.00	3022.12 ✓
37	<p>P.no.243,l.no.12</p> <p>Supplying 4 lever mortice lock or any approved make and brand as per direction of the Engineer- in -Charge.</p> <p>i) 150 mm.- 1no</p>	1 no	Each	378.00	378.00 ✓
38	<p>P.no.244, l.no.13</p> <p>(B) Supplying 125 mm. Dia acrylic handle for aluminium door as per approved make &amp; brand.</p> <p>(a) Natural Colour- 2 nos</p>	2 nos	Each	181.00	362.00 ✓
COST OF WORKS					181562.34 ✓
ADD CGST @6% ON COST OF WORKS					10893.74 ✓
ADD SGST @6% ON COST OF WORKS					10893.74 ✓

TOTAL COST OF WORKS EXCLUDING LABOUR WELFARE CESS	203349.82
LABOUR WELFARE CESS @1% OF RS.203349.82	2033.50
TOTAL COST OF WORKS INCLUDING LABOUR WELFARE CESS	205383.32
CONTINGENCY CHARGES @3% OF RS.203349.82	6100.49
GRAND TOTAL COST OF WORKS	211483.81
	Say
	211484.00

(Rupees two lakh eleven thousand four hundred eighty four) only

*Nirmalya Chakraborty*  
22.01.2021

**Junior Engineer (Civil),  
BCW & TD, Govt. of West Bengal  
North 24 Parganas District**

*M* 22/1/21  
**Project Officer-cum-District  
Welfare Officer B.C.  
North 24 Pgs. District**

Verified for Rupees 2,11,484.00.....

administrative approval must be obtained seperately

(Rupees Two Lakh Eleven Thousand Four Hundred Eighty Four only)

**CHECKED**

*S. Ghosh*  
05/02/2021  
**Junior Engineer (P&RD)  
North 24-Pgs. Zilla Parishad**

*S. Ghosh*  
**Assistant Engineer  
North 24-Pgs. Zilla Parishad**

**Rate analysis for Cement Concrete (mix 1: 1.5 : 3) Per Cu.m**

**Considering Barasat Railway yard**

Sl.no.	Description of Item	Amount
1	Rate of item as per relevant section of this schedule	Rs.4651.00
2	Add Cost of Stone aggregate of different grading as per consumption required for one Cu.m of Concrete	
	20 m.m Nominal size:- 0.573 Cum x Rs.1430.00 /Cum=	Rs.819.39
	10 mm. Nominal size:- 0.287 Cum x Rs.1299.00 / Cum=	Rs.372.81
3	Add Cost of carriage of stone aggregate as per consumption required for one cum of concrete	
	Distance consider 90 k.m. from Barasat Railway Yard.	
	(a)Upto 5 km :- 0.86 x Rs.124.00	Rs.106.64
	(b) Above 5 km up to 10 km:- 0.86 x 5 x Rs.10.90	Rs.46.87
	(c) Above 10 km up to 20 km:- 0.86 x 10 x Rs.10.10	Rs.86.86
	(d) Above 20 km up to 50 km:- 0.86 x 30 x Rs.9.50	Rs.245.10
	(e) Above 50 km upto 80 km:- 0.86 x 30 x Rs.8.40	Rs.216.72
4	Add Cost for Loading and Unloading of Stone aggregate:- 0.86 x Rs.58.00	Rs.49.88
	TOTAL	Rs.6595.27

*Nirmalya Chakraborty*  
22.01.2021

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North 24 Parganas District**