

SCHEDULE OF QUANTITY						
N/W	Improvement of drainage system & external repair and painting with plinth protection of D Type Quarters (D-212 to D-227) and D Type Quarters (D-228 to D-243) at IEST Shibpur, Howrah, West Bengal.					
Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					2.8
1.1	All kinds of soil.	200	cum	₹ 260.30	₹ 52,060.00	2.8.1
2	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered).					2.17
2.1	Depth exceeding 1.5 m but not exceeding 3 m	100	sqm	₹ 184.00	₹ 18,400.00	2.17.2
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	65	cum	₹ 196.00	₹ 12,740.00	2.25
4	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	175	cum	₹ 700.50	₹ 122,588.00	2.25A
5	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	36	cum	₹ 2,123.75	₹ 76,455.00	2.27
6	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	1000	sqm	₹ 8.95	₹ 8,950.00	2.32

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					4.1
7.1	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	35	cum	₹ 7,178.75	₹ 251,256.00	4.1.6
8	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	200	sqm	₹ 749.30	₹ 149,860.00	4.17
9	Centering and shuttering including strutting, propping etc. and removal of form for					5.9
9.1	Foundations, footings, bases of columns, etc. for mass concrete	13	sqm	₹ 392.15	₹ 5,098.00	5.9.1
9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	145	sqm	₹ 842.50	₹ 122,163.00	5.9.2
9.3	Suspended floors, roofs, landings, balconies and access platform	45	sqm	₹ 927.25	₹ 41,726.00	5.9.3
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					5.22A
10.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	2900	kg	₹ 107.85	₹ 312,765.00	5.22A.6

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
11	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.					5.33
11.1	All works upto plinth level					5.33.1
11.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	42	cum	₹ 9,504.75	₹ 399,200.00	5.33.1.1
12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					6.12
12.1	cement mortar 1:4(1 cement :4 coarse sand)	90	sqm	₹ 905.05	₹ 81,455.00	6.12.2
13	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :					6.34
13.1	Cement mortar 1:4(1 cement :4 coarse sand)	32	cum	₹ 8,962.35	₹ 286,795.00	6.34.1
14	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					9.1
14.1	Sal wood	0.25	cum	₹ 116,520.30	₹ 29,130.00	9.1.2

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
15	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.					9.7
15.1	Float glass panes					9.7.7
15.1.1	4 mm thick glass pane (weight not less than 10 kg/sqm).	6	sqm	₹ 2,241.80	₹ 13,451.00	9.7.7.1
16	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					9.48
16.1	Fixed to openings /wooden frames with rawl plugs screws etc.	360	kg	₹ 238.35	₹ 85,806.00	9.48.2
17	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.					12.42
17.1	Coupler					12.42.1
17.1.1	110 mm	40	each	₹ 136.15	₹ 5,446.00	12.42.1.2
18	12 mm cement plaster of mix:					13.4
18.1	1:4(1 cement: 4 coarse sand)	530	sqm	₹ 357.35	₹ 189,396.00	13.4.1
19	6 mm cement plaster of mix:					13.16
19.1	1:3(1 cement :3 fine sand)	110	sqm	₹ 300.45	₹ 33,050.00	13.16.1
20	Neat cement punning.	460	sqm	₹ 79.95	₹ 36,777.00	13.18
21	Finishing walls with Acrylic Smooth exterior paint of required shade:					13.46
21.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	2500	sqm	₹ 160.60	₹ 401,500.00	13.46.1
22	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					13.62
22.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	500	sqm	₹ 226.25	₹ 113,125.00	13.62.1
23	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	2500	sqm	₹ 25.15	₹ 62,875.00	13.91

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
24	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work:					13.96
24.1	100 mm diameter pipes	260	metre	₹ 36.25	₹ 9,425.00	13.96.2
25	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.					14.1
25.1	With cement mortar 1:4 (1cement: 4 coarse sand)	360	sqm	₹ 560.50	₹ 201,780.00	14.1.2
26	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.					15.7
26.1	In cement mortar	32	cum	₹ 2,060.20	₹ 65,926.00	15.7.4
27	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:					15.45
27.1	Up to 150 mm diameter	145	metre	₹ 332.40	₹ 48,198.00	15.45.1
28	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	75	sqm	₹ 972.00	₹ 72,900.00	16.68

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
29	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer- in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	5	cum	₹ 10,117.60	₹ 50,588.00	16.69
30	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :					17.37
30.1	For 100 mm dia pipe	48	each	₹ 362.85	₹ 17,417.00	17.37.1
31	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	16000	per litre	₹ 11.00	₹ 176,000.00	18.48
32	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :					19.1
32.1	150 mm diameter	60	metre	₹ 695.80	₹ 41,748.00	19.1.2
33	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :					19.3
33.1	150 mm diameter S.W. pipe	60	metre	₹ 743.10	₹ 44,586.00	19.3.2

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
34	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :					19.6
34.1	150 mm dia. R.C.C. pipe	30	metre	₹ 556.45	₹ 16,694.00	19.6.2
34.2	250 mm dia. R.C.C. pipe	30	metre	₹ 899.80	₹ 26,994.00	19.6.3
35	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					19.7
35.1	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :					19.7.2
35.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	12	each	₹ 26,405.50	₹ 316,866.00	19.7.2.1
36	Extra for depth for manholes :					19.8
36.1	Size 120x90 cm					19.8.2
36.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	6	metre	₹ 10,585.50	₹ 63,513.00	19.8.2.1
37	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality					19.19
37.1	L D- 2.5					19.19.1
37.1.1	Rectangular shape 600x450 mm internal dimensions	4	each	₹ 1,437.65	₹ 5,751.00	19.19.1.1

Sl. No.	Description	Qty	Unit	Rate	Amount	DSR No.
38	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in- charge:					19.24
38.1	Rectangular manhole 120x90 cm and 90 cm deep	10	each	₹ 4,475.50	₹ 44,755.00	19.24.2
39	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.					19.32
39.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	each	₹ 26,861.90	₹ 53,724.00	19.32.1
	Total				₹ 4,168,932.00	
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973				₹ 4,056,371.00	
	Add Cost Index @22%				₹ 892,402.00	
	Total				₹ 4,948,773.00	
40	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (A) (i) Single Socketed 3 Meter Length (b) 110 mm	390	Metre	₹ 348.01	₹ 135,724.00	PCS'17 Vol- 2 23(A)(I)(b)-Page-69
41	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (B) Fittings (iii) Door Tee (b) 110 mm	50	Each	₹ 232.40	₹ 11,620.00	PCS'17 Vol- 2 23(B)(III)(b)-Page-70
42	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (B) Fittings (x) Bend 87.5° (b) 110 mm	50	Each	₹ 143.02	₹ 7,151.00	PCS'17 Vol- 2 23(A)(X)(b)-Page-71
	Total				₹ 5,103,268.00	

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