

Civil Estimate of Artisans Stall Outside The Campus of Alipore Zoological Gardens, Alipore, Kolkata

Sl. No.	Ref No & Page No	Description of works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2/1	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.	27.38	%Cu.M	11927.00	3266.00
2	3/1	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)	15.06	%Cu.M	7754.00	1168.00
3	5/3	Earth work in filling in compound, tank, low land, ditches etc. with good earth, in layers not exceeding 150 mm. including breaking clods and consolidating the same by ramming and dressing complete. (Payment will be made on profile measurement before and after the work) ii) <b>With carried earth arranged by the contractor within a radius exceeding 3 km. but not exceeding 5 km. including the cost of carried earth.</b>	12.19	%Cu.M	41958.00	5115.00
4	3/47	Supplying and laying Polythene Sheet (150 Gm / Sq.M.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.	47.75	Sq.M	24.00	1146.00
5	1/14	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	47.75	Sq.M	361.00	17238.00
6	22/35	Cement concrete with graded stone ballast (40 mm size excluding shuttering) In ground floor. <b>(A) [Pakur Variety] (a) 1:3:6 proportion</b>	5.01	Cu.M	5286.77	26487.00
7	6/25	Controlled Cement concrete with well graded stone chips (20 mm graded nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS:456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in charge. Consumption of cement will not be less than 300 Kg of cement with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula. In ground floor and foundation. [using concrete mixture] <b>M 20 Grade ((i) Pakur Variety) Ground Floor</b>	22.23	Cu.M	5996.05	133292.00
8	40/43	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) <b>Tor steel / Mild Steel</b> <b>II. JSW/JSP/L/SHYAM/ SRMB/BMASL/ELECROSTEEL/SSL.</b>	2.05	MT	54547.74	111823.00
9	36/42	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 (f) 25 mm to 30 mm shuttering without staging in foundation.	40.66	Sq.M	209.00	8498.00
10	36/43	(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge. In Ground Floor.	89.89	Sq.M	335.00	30113.00
11	10/6	c) Anti termite treatment to the top surface of the consolidated earth within plinth walls with chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1% concentration) with water by weight at the rate of 5 Litres per Sq.M of the surface before sand bed or sub-grade is laid. Holes upto 50 mm. to 75 mm. deep at 150 mm. centre to centre both ways shall be made with 12 mm, diameter mild steel rod on the surface to facilitate saturation of the soil with the chemical emulsion. The work shall be carried out as per specification described in para 6.4 of code IS-6313 (part-II) 1981. (Mode of measurement will be per Sq.M of plan area of plinth treated.)	23.44	Sq.M	110.00	2578.00

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12	4/47	40 mm. thick damp proof course with cement concrete (1:1.5:3) (with graded stone chips 20 mm nominal size) with water proofing compound of approved brand @ 0.2% weight of cement including cost of materials over two coats of non toxic acrylic polymer modified cementitious waterproofing slurry coat complete [cost of water proofing compound and non toxic paint to be paid seperately) for underground water retaining structures.	5.19	Sq.M	296.91	1541.00
13	7/15	Brick work with 1st class bricks in cement mortar (1:4) (a) In foundation and plinth.	3.61	Cu.M	5634.52	20341.00
14	8/15	Brick work with 1st class bricks in cement mortar (1:6) (b) In superstructure, In Ground floor.	20.30	Cu.M	5604.55	113772.00
15	16/16	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) In ground floor.	7.50	Sq.M	730.77	5481.00
16	18/16	Extra for using approved H.B netting in every third layer in 16 & 17 of subhead A above in any floor.	7.50	Sq.M	41.00	308.00
17	1/189	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 (Ground floor).[Excluding cost of chipping over concrete surface] (i) <b>With 1:6 cement mortar</b> <b>(c) 20 mm thick plaster (For internal walls) In Ground Floor.</b>	65.32	Sq.M	172.71	11281.00
18	1/189	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 (Ground floor).[Excluding cost of chipping over concrete surface] (i) <b>With 1:6 cement mortar</b> <b>(c) 15 mm thick plaster (For external walls) In Ground Floor.</b>	94.32	Sq.M	149.28	14080.00
19	1/189	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 (Ground floor).[Excluding cost of chipping over concrete surface] (i) <b>With 1:4 cement mortar</b> <b>(c) 10 mm thick plaster In Ground Floor.</b>	24.13	Sq.M	131.28	3168.00
20	1/192	Labour for Chipping of concrete surface before taking up Plastering work.	183.77	Sq.M	21.00	3859.00
21	36/66	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91 Kg. / Sq.M or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor / Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per Sq.M below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make 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 true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor.) <b>(I) With application slurry @ 1.75 Kg / Sq.M, 20 mm sand cement mortar (1:4) &amp; 2 mm thick cement slurry at back side of tiles, 0.2 Kg/ Sq.M white cement for joint filling with pigment.</b> <b>(B) Light Colour.</b>	23.99	Sq.M	1285.00	30827.00
22	15/192	Neat cement punning about 1.5 mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 Cu.M per 100 Sq.M.	38.22	Sq.M	33.13	1266.00
23	19/106	(a)Supplying, fitting and fixing steel rolling shutter 18 B.G .of approved type steel to the section 75mm wide, fitted with coil wire spring to necessiate the fitting of required Nos. of C.I. Pulleys on heavy type solid drawn seamless steel tube complete with locking arrangements both inside and outside specially built-up side guide channels including providing a hood for the steel rolling shutter in the room, painting two coats of approved aluminium paint over a coat of red lead primer complete.	14.40	Sq.M	3270.00	47088.00

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24	4/24	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. (i) Pakur Variety. <b>Avg. 65 mm thick Screed Concrete in Roof over Slab.</b>	1.98	Sq.M	5323.90	10541.00
25	5/204	(b) Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand. (1.5 mm thick)	183.77	Sq.M	110.00	20215.00
26	7/196	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC. <b>(b) Two Coats ii) Solvent based interior grade Acrylic Primer.</b>	89.45	%Sq.M	4850.00	4338.00
27	4/201	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 ii) Luxury Quality.</b>	89.45	Sq.M	70.00	6262.00
28	8/196	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 throughly, complete as per manufacturer's specification and as per direction of the EIC. <b>In Ground Floor: (b) Two Coats.</b>	94.32	%Sq.M	4510.00	4254.00
29	17/197	Protective and Decorative Acrylic exterior emulsion paint 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>In Ground floor (Two Coat) a) Normal Acrylic Emulsion.</b>	94.32	Sq.M	67.00	6319.00
30	1/199	a) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	14.40	Sq.M	29.00	418.00
31	2/201	(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: <b>(b) On steel or other metal surface: With super gloss (hi-gloss)- (iv) Two coats (with any shade except white)</b>	14.40	Sq.M	79.00	1138.00
32	1/199	(b) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	38.61	Sq.M	38.00	1467.00
33	2/201	(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: <b>(a) On timber or plastered surface: With super gloss (hi-gloss) (iv) Two coats (with any shade except white)</b>	38.61	Sq.M	81.00	3127.00
34	21/213	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 materials (Spun Yarn, Valamoid / Bitumen / M-Seal etc) complete. <b>A) UPVC Pipes: (i) 75 mm. Dia.</b>	24.15	Metre	188.00	4540.00
35	21/213	B) UPVC Fittings: c) Bend 87.5 degree (i) 75 mm. Dia.	10.00	Each	95.00	950.00
36	21/213	d) Shoe (i) 75 mm. Dia.	10.00	Each	78.00	780.00
37	13/12	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.	27.61	Cu.M	166.00	4583.00
<b>Total Civil Cost:</b>					Rs.	<b>662668.</b>
<b>Adding GST@ 18% &amp; Labour Cess @1%:</b>					Rs.	<b>125907.1</b>
<b>Final Amount:</b>					Rs.	<b>788575.45</b>
<b>Final Amount (Say):</b>					Rs.	<b>788575.00</b>

**Rupees Seven Lakh Eighty Eight Thousand Five Hundred And Seventy Five Only.**