



**Sub: Renewing of existing Ramp & Staircase of NTC building and Old museum building at BITM, Kolkata.**

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
1.0	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 150m. At any floor including roof.	1	Cum	447.00	447.00
2.0	Dismantling all types of plain cement concrete works (upto 150mm thick), stacking serviceable materials at site and removing rubbish as directed within a lead of 150m & upto at any level.	1	Cum	939.00	939.00
3.0	Dismantling artificial stone/ Mosaic/ chequered tiles flooring upto 50 mm thick by carefully chiselling without damaging the base slab and removing rubbish as directed within a lead of 150 m.	160	Sqm.	50.00	8,000.00
4.0	Stripping off worn out plaster and raking out joints of walls, ceilings etc upto any height and in any floor including removing rubbish within a lead of 150m as directed.	30	Sqm.	19.00	570.00
5.0	Taking out Mirzapur, glazed porcelain or vitrified tiles, marble slab carefully by chiselling from walls, floor etc. including backing materials and stacking of serviceable material as directed.	40	Sqm.	106.00	4,240.00
6.0	Labour charges for Chipping of concrete surface/ artificial stone flooring/ mosaic flooring etc before taking up new plastering/ flooring work.	10	Sqm	21.00	210.00
7.0	Brick work with 1st class bricks (Class designation 75) in cement mortar (1:6). In superstructure at any floor.	0.5	Cum	5,636.00	2,818.00
8.0	125mm thick brick work with 1st class bricks in cement mortar (1:4) at any floor.	10	Sqm.	736.00	7,360.00
9.0	Providing and laying in position Ordinary Cement concrete of specified grade with graded stone chips (20 mm nominal size) of Pakur variety excluding the cost of centering, shuttering and reinforcement, if any, in ground floor as per relevant IS codes.				
9.1	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	0.5	Cum.	6,880.88	3,440.44
9.2	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	1	Cum.	6,510.92	6,510.92
10.0	Reinforcement for reinforced 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 binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. For works in foundation and upto roof of ground floor/ upto 4 m using Tor/HYSD steel.	0.20	MT	70,527.00	14,105.40

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
11.0	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 at any height. With 1:4 cement mortar, 15mm thick plaster.	70	Sqm.	167.00	11,690.00
12.0	Supplying, fitting and fixing 25 mm. to 37.5 mm. thick Chunar / Mirzapur / Dholpur/ Kota stone slab in floor, staircase etc set in 20 mm thick (avg) cement mortar (1:4) bed and pointing in cement mortar (1:2) [1 cement: 2 marble dust] with admixture of pigment matching the stone shade, polishing all complete as per direction of the E-I-C (Using cement slurry for bedding @ 4.4 kg/Sqm and jointing @ 2.4 kg/Sqm)	40	Sqm.	1,048.00	41,920.00
13.0	Supplying, fitting and fixing Marble Slab of 15 to 18 mm thickness in floor, lobby, stair, landing & treads etc. over 20 mm (av.) thick base of Cement mortar (1:2) laid with white cement slurry @ 4.4 kg/Sqm before placing marble & jointed with white cement slurry @ 2.0 kg/Sqm with necessary pigments including grinding and Granite polishing as per direction of Engineering -in -Charge in Ground Floor.	10	Sqm.	1,467.00	14,670.00
14.0	Supplying fitting and fixing 15 to 18 mm thick Marble slab/Tile in riser of step or skirting (upto 300 mm ht) over 15mm (avg) thick base of Cement mortar (1:2) laid with white cement slurry @ 4.4 kg/Sqm at back side of marble and jointed with white cement slurry @ 2.2 kg/ Sqm with necessary pigments including grinding and Granite Polishing.	1	Sqm.	1,597.00	1,597.00
15.0	Supplying, fitting & fixing granite slab 15mm to 18mm thick in floor, lobby, stair, landing and treads etc. over 20mm (avg) thick base of cement mortar (1:2) laid with white cement slurry @4.40Kg per Square meter before placing of granite and jointed with white cement slurry @2.0 Kg per square meter with necessary pigments and complete as per direction of Engineer-in-charge including cost of all materials, labours, curing and roughening of concrete surface etc all complete upto 4th floor level.	45	Sqm.	2,786.00	1,25,370.00
16.0	Supplying, fitting & fixing granite slabs 15mm to 18 mm. thick with uniform texture & without decorative veins in columns, wall, facia, riser etc. with 15 mm thick [avg] cement mortar (1:2) including making suitable arrangements to hold the stones properly by brass / copper hooks including pointing in cement mortar (1:2) (1 white cement : 2 marble dust) with admixture of pigment matching the stone shades all complete as per direction of the Engineer-in-charge including cost of all materials, labours, scaffolding, staging, curing and roughening of concrete surface all complete upto 4th floor level.	20	Sqm.	2,948.00	58,960.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
17.0	Supplying and laying true to line and level High Grip, Scratch resistant, Neutral to UV rays, Full Body Vitrified Tiles conforming to IS:15622-2006 & IS 4457-2007 and tested in accordance with IS:13630 [Non- modular sizes for tiles with Skid resistance: 0.6, Mohr's hardness > 7.0, Staining resistance: Class- 1, Water Absorption E < 0.5%] & MOR > 35N/sq.mm and Breaking strength > 1500 N for Outdoor area of building e. g. Gang-way, Corridor, Driveway, Parking lots, Courtyards, Sloping ramps, Entrance lobbies, Patios, Portico etc. set over necessary underlay and 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg./Sqm, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles and removal of wax coating of top surface of tiles with warm water and cleaning the tiles using soft and dry cloth complete including the cost of materials, labour and all other incidental charges complete and true to the manufacturer's specification and direction of Engineer-in- Charge. In Ground Floor: Sizes- 300mm x 300mm x 10 mm. Make: Kajaria/ Jhonson.	60	Sqm.	785.00	47100.00
18.0	Supplying, fitting & fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design, fixing in customize design as per direction of Engineering- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per Sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge. Plain Type/ Random Mix.	50	Sqm.	1,302.00	65,100.00
19.0	Extra cost of labour for prefinished and premoulded nosing to treads of steps, railing, window sill etc. of Marble/ Granite Stone including machine polishing to edges to give high gloss finish all complete as per design approved by the Engineer - in - Charge.	150	Meter	130.00	19,500.00
20.0	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. (This item is applicable to new work or old work when the original surface has been exposed by removal of old paint)	50	Sqm.	29.00	1,450.00
21.0	Painting with best quality synthetic enamel paint of approved make and brand (ICI Dulux 5 in 1 or Equivalent) including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary. <b>Two coats</b> (with any shade except white) with super gloss (hi-gloss) of approved quality on steel or other metal surface.	50	Sqm.	79.00	3,950.00
22.0	Dismantling of existing MS railing (2nos) carefully by manually/mechanical means without dismembering and stacking within 150 meters lead as per direction of Engineer-in-charge.	1	Lump Sum	1,500.00	1,500.00
23.0	Reinstallation of old MS railing (2nos) in proper line & level after finishing of granite/ vitrified tiles work at ramp.	1	Lump Sum	5,000.00	5,000.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
24.0	Removal of rubbish, earth, scrap material etc. from the working site and dispose of the same beyond the compound in truck loads in conformity with Municipal/ Corporation rules and as per instruction of Engineer – in – Charge.	2	Trip	2,500.00	5,000.00

Cost of Civil works :::	451447.76
GST, as applicable over cost of Civil work @ 18% :::	81260.60
Cost of Civil works excluding labour welfare cess :::	532708.36
Labour welfare cess @ 1% :::	5327.08
<b>Total amount of Civil Work :::</b>	<b>538035.44</b>
<b>Say Rs.</b>	<b>538035.00</b>

**NOTE :**

- 1 Tenderers should visit the site before quoting the rate to understand the nature of work and condition of the site.
  - 2 Rates shall be quoted inclusive of all materials, **wastage**, labour, hire charges of all tools, plants and machinery, shifting charges, **taxes & duties** etc. required for this job. No additional payment shall be done by the BITM for this purpose.
  - 3 The work shall be required to carry out without obstructing the visitor's movements and may also be required to carry out beyond office hours (if required) for which no additional payment shall be made.
  - 4 The work will be carried out after following all respective precautionary measure and safety rules. Expenditure towards insurance coverage for the labourers working at site has to be included in the rate.
  - 5 Regarding the work directives of the Engineer-in-Charge shall be final and binding.
  - 6 All materials must be approved by the Engineer-in- Charge before supplying at site.
- List of Approved materials :
- i) Cement: Ultratech/ ACC/ Lafarge/ Ambuja.
  - ii) Reinforcement: JSW/ JSPL/ SHYAM/ SRMB/ BMASL/ ELECTROSTEEL/ SSL.
  - iii) Vitrified tiles: Kajaria/ Johnson/ Nitco/ Orient/ Somany/ Vermora.
  - iv) Synthetic Enamel: Asian paints/ ICI Dulux/ Berger.