

**MUMBAI PORT AUTHORITY**  
CIVIL ENGINEERING DEPARTMENT

**Tender No. E-77/2023**

**Miscellaneous repairs and painting to building no. 1&2 at Abhilasha Naagar, Cotton Depot, GWND.**

**Bill of Quantity and Rates**

<b>Ite No.</b>	<b>Qty.</b>	<b>In Unit</b>	<b>Item Description</b>	<b>Rate Excl. GST</b>	<b>Per</b>	<b>Amount in Rs</b>
1	3580	Sq.M.	Removing existing plaster carefully for RCC/ brick work including removing wall fixtures if any, double scaffolding without making holes in existing walls etc. complete as directed including transporting the debris outside MbPT estate as directed.	142.00	Sq.M.	508,360.00
2	1125	Sq.M.	Exposing existing old & worn out RCC column, beams and slabs etc. upto the main reinforcement carefully by means of chisel and hammer including necessary scaffolding, stacking the same on ground in the compound etc. complete as directed (surface area exposed after final chipping, chiselling etc. will only be measured and paid for).	199.00	Sq.M.	223,875.00
3	30	Lits.	Removing existing corrosion in m.s./ tor steel bars by means of suitable light tapping, wire brushing and applying suitable chemicals viz. 'Rusticide', 'Rust converter' and leaving for 24 hours, wash the deposits with water on next day etc. complete as directed.	284.00	Lit.	8,520.00
4	1125	Sq.M.	Trowelling the existing prepared surface by means of cement concrete i.e.1:2:3 using river sand after application of hack-aid plast/ epoxy resin as per site condition/ instruction, necessary curing etc. complete including finishing the surface to key coat etc. complete as directed.	652.00	Sq.M.	733,500.00
5	1125	Sq.M.	Providing and applying polyalk EP or equivalent as per manufacturer's specification after cleaning the existing surface from dust/loose particle by applying air by air blower under pressure etc.complete as directed.	123.00	Sq.M.	138,375.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
6	35500	Kgs.	Providing and applying polymer modified cement mortar in proportion of 1(Polymer): 5(Cement): 15 (Quartz sand) by weight with water cement ratio of 0.35 including application of bonding coat using brush in ratio 1(Polymer): 1(Cement):0.35 (Water) by weight including cleaning the surface with air mixed with water under pressure and subsequent layer upto 10 mm after hardening etc. complete as directed (Polymer manufactured by Sunanda, Pidilite, Fosvoc, Acro-chem, Build-core as approved by the Engineer).	41.00	Kg.	1,455,500.00
7	13900	Kg.	Providing and laying micro-concrete of Polycrrete-A or equivalent from approved manufacturer in line and level to match with existing layer, using bonding coat of Sunepoxy-358 (Resin : Hardner mixed in the ratio 1 : 0.5 by weight) or equivalent with existing surface, curing, excluding form work etc. complete as directed (Rate is inclusive of bonding polymer coat).	27.00	Kg.	375,300.00
8	7	Cum of concrete	Providing and fixing in position shuttering to columns beams to suit the site condition to pour the concrete or micro concrete including providing props, filling gap with suitable material, smoothening the shuttering surface with oil etc. complete as directed.	3424.00	Cum of concrete	23,968.00
9	2180	Sq.M.	Providing & applying external plaster 20 mm thick or more in two coats externally to brick work or RCC members at any height/ level using pre-packed ready mix plaster of sand binder proportion - 1:3 of silico plast manufactured by M/s. Precise Conchem Pvt. Ltd. or equivalent including racking out mortar from joints of masonry to a depth of 20 mm and roughening the concrete surface inclusive of raised bands, architechural finishings, vatas at wall-chajja junctions, additional cement if necessary for corners/ finishing works/ vata, making uniform sand face finish with suitable spraying machine etc. complete including	830.00	Sq.M.	1,809,400.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
10	720	Sq.M.	necessary scaffolding, curing etc. complete as directed. Note: In case the thickness of plastering is more than 20 mm thick, where the brick work is partially chipped off, the contractor may apply a base coat plaster of CM 1:3 & brick bats (small pieces) at his own cost as a levelling course. Providing & applying plaster 20 mm thick or more in one coat internally to brick work or RCC members at any height/ level using pre-packed ready mix plaster of sand binder proportion - 1:3 of silico plast manufactured by M/s. Precise Conchem Pvt. Ltd. or equivalent including racking out mortar from joints of masonry to a depth of 20 mm and roughening the concrete surface inclusive of additional cement if necessary for corners/ finishing works/ vata, making uniform finish including finishing with neeru of approved quality etc. complete including necessary scaffolding, curing etc. as directed.	717.00	Sq.M.	516,240.00
11	680	Sq.M.	Providing & applying plaster 10 mm thick or more in one coat internally to RCC members to ceiling at any height/ level using pre-packed ready mix plaster of sand binder proportion - 1:3 of silico plast manufactured by M/s. Precise Conchem Pvt. Ltd. or equivalent including roughening the concrete surface inclusive of additional cement if necessary for corners/ finishing works/ vata, making uniform finish including finishing with neeru of approved quality etc. complete including necessary scaffolding, curing etc. as directed.	374.00	Sq.M.	254,320.00
12	35	No	Providing and fixing in position 20 mm GI grouting pipe by making hole using drilling machine in RCC member/ masonry upto required depth and fixing the grouting pipe using epoxy putty/ M-seal etc. complete as directed.	138.00	Each	4,830.00
13	175	Kg.	Providing and grouting polymer (Polyalk EP or equivalent), cement and water at the ratio of 1:3:2 by weight and grouting shall be done using hand grouting machine till refusal, curing the area by spray etc. complete as directed.	195.00	Kg. of cement	34,125.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
14	820	Mtrs.	Dismantling CI or AC pipes with fittings (from 50 to 150 mm nominal bore) and clamps including stacking the materials within a lead of 100 Mtrs. complete as directed.	59.00	Mtrs.	48,380.00
15			Providing and fixing PVC pipes of required dia. of 'Supreme'/ 'Prince'/ 'Kisan' or of approved manufacture/ brand of good quality including fittings such as 'Y' with door, bend with door, off-sets, PVC connectors fixed on walls with PVC clips/GI U bracket clamps, making holes in wall, making them good after connection, connecting the pipes with PVC solvent cement, rubber rings etc., testing the line etc. complete as directed.			
a )	240	Mtr	110 mm dia. PVC soil pipes	326.00	Mtr	78,240.00
b )	420	Mtr	75 mm dia. PVC waste water pipes	226.00	Mtr	94,920.00
16	160	Mtr	Providing and fixing PVC rain water pipes of required dia. of 'Supreme'/ 'Prince'/ 'Kisan' or of approved manufacture/ brand of good quality including connection at terrace and shoe at the bottom, fixing the pipes with PVC clips/GI U bracket clamps , making holes in parapet making them good, connecting the pipes with solvent cement etc. complete as directed.	271.00	Mtr	43,360.00
17	1580	Mtr	Removing existing GI pipes and fittings of any size including necessary scaffolding etc. complete and stacking the same as directed.	35.00	Mtr	55,300.00
18	40	Mtr	Re-fixing existing old GI pipes of any size with new fittings, clamps, etc. complete as directed.	175.00	Mtr	7,000.00
19			Providing and fixing UPVC/ ASTM pipes concealed or open laying with its fittings as per manufacturer's instruction etc. on approved GI clamps/brackets complete as directed.			
a	140	Mtr	40 mm (1.5") nominal dia.	270.00	Mtr	37,800.00
b	20	Mtr	32 mm (1.25") nominal dia.	248.00	Mtr	4,960.00
c	320	Mtr	25 mm (1") nominal dia.	198.00	Mtr	63,360.00
d	1060	Mtr	20 mm (0.75") nominal dia.	163.00	Mtr	172,780.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
20			Providing and fixing gun metal/UPVC/ASTM wheel valve gate type (Peet valve) tested by MCGM or bearing ISI mark complete as directed.			
a	4	No	20 mm (3/4") nominal bore	375.00	Each	1,500.00
b	16	No	25 mm (1") nominal bore	524.00	Each	8,384.00
c	2	No	32 mm (1 1/4") nominal bore	800.00	Each	1,600.00
d	8	No	40 mm (1 1/2") nominal bore	1104.00	Each	8,832.00
21	80	No	Removing nahani trap carefully including making hole in brick wall and stacking the same at site etc. complete as directed.	65.00	Each	5,200.00
22	80	Nos.	Providing and fixing PVC nahani trap with PVC cover including making holes in walls, beams etc. with cement grouting(1:1), making good the damaged portion, finishing etc. complete as directed.	932.00	Each	74,560.00
23	60	Nos.	Providing and fixing in position Indian style white glazed vitreous china ware w.c. pan 23" long with raised white glazed foot treads & with 'P' trap and vent including necessary inlet and out let connections etc. complete including removing existing w.c. pan, brick bat coba and reinstating the brick bat coba etc. with 3 coats of oil paint to exposed pipes and fittings etc. complete as directed.	4213.00	Each	252,780.00
24	48	Nos.	Providing and fixing spouts comprising of 25 mm (1") nominal bore 450 mm long GI pipe 'B' class and GI elbow including making holes in masonry/ concrete and reinstating the holes complete.	116.00	Each	5,568.00
25	40	Sq.M.	Removing existing waterproofing layer including brick bat coba and stacking the debris on ground in the compound etc. complete as directed.	311.00	Sq.M.	12,440.00
26	40	Sq.M.	Providing and laying waterproofing treatment to mori, bath, w.c., over head tanks, terraces etc. consisting of smooth plaster in CM (1:3) over a layer of cement slurry and a layer of polycoat S.S. or equivalent as approved in flooring and dado, brick bat coba in CM (1:3) of required	1037.00	Sq.M.	41,480.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
27	590	Sqm	thickness and 40 mm thick IPS (1:2:3) including addition of approved quality waterproofing compound finished smooth surface etc. complete (using river sand) (payment will be made for plan area). Removing existing Indian Patent Stone (IPS) flooring and stacking the same etc. complete as directed.	125.00	Sqm	73,750.00
28	40	Sqm	Indian Patent Stone (IPS) flooring of grade (1:2:4) using river sand 40 mm thick average finished to smooth surface including mixing with red oxide and marking lines/ squares and adding plasticisers approved by the Site In-charge etc. complete as directed.	427.00	Sqm	17,080.00
29	550	Sq.M.	Providing and laying IPS (1:2:4), 50 mm thick (with course aggregate upto 20 mm size) using river sand with addition of special waterproofing compound at the rate of 1 Kg. per bag of cement including laying thick cement slurry mixed with special waterproofing compound over the existing old brick bat coba after preparing the roof surface including dismantling the plaster upto 300 mm height (above finished level) of parapet, columns, staircase room walls etc. and making the terrace completely waterproof including 300 mm (above finished level) vertical face on parapet, columns, staircase room walls etc. and providing vata etc. including carrying out test for water tightness by impounding water for 240 hours etc. (Payment shall be made for horizontal projected area. No payment for waterproofing 300 mm (above finished level) vertical faces mentioned above shall be made and the cost of the same deemed to be included in the rate).	500.00	Sq.M.	275,000.00
30	550	Sq.M.	providing and laying china mosaic chips/ broken ceramic tile pieces of approved size over the IPS layer including laying on a CM	739.00	Sq.M.	406,450.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
31	460	Sq.M.	(1:5) approx. 25 mm average thickness, fixing the ceramic tile chips in the mortar in proper line and level including pouring dry cement below the chips and neat cement slurry to the gaps and finishing the same with neat cement paste/ dry cement and cleaning the tile chips using saw dust etc. as per the design pattern as directed complete. Dismantling tiles in floors stacking the same for disposal within a lead of 100 Mtrs. complete as directed.	58.00	Sq.M.	26,680.00
32	1260	Sq.M.	Providing and fixing ceramic tiles of suitable size of approved brand in flooring on lime /cement mortar (1:2) bedding on 25 to 40 mm thickness or in dado with 10 to 20 mm thick cement mortar (1:3) backing, jointed with neat cement slurry with pigment to match the shade of the tiles and including polishing etc. complete as directed.	1451.00	Sq.M.	1,828,260.00
33	150	Mtrs.	Providing protruded band (vata) 200mm wide and 60 mm average thick at the junction of GI sheets and vertical building faces as per the site requirements in C.M. (1:3) with an interface hack- aid plast bond between old and new surface before plastering including preparation of concrete surface to receive vata etc. complete as directed.	227.00	Mtr.	34,050.00
34	150	Sq.M.	Providing and fixing GI plain sheets of 20 gauge in chajjas at various floor levels of or to the bath doors screws as directed including providing aluminium rivets for the horizontal laps, applying two coats of oil paint over a coat of zinc chromate on both sides of GI sheets including double scaffolding etc. complete as directed (Laps will not be paid separately. Minimum horizontal lap 100 mm).	1761.00	Sq.M.	264,150.00
35	24	qntls.	Steelwork in single sections viz. flats, 'T's, angles and channels, etc. including cutting, hoisting, fixing in position by welds or bolts/ split bolts and applying two coats of approved synthetic enamel paint over a coat of anti-corrosive zinc chromate primer (yellow) to the entire steel work complete.	7089.00	qntl.	170,136.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
36	5	Cu.M.	Demolishing or dismantling stone masonry/ brick masonry or cement concrete carefully upto required height and staking useful materials and transporting debris out of MbPT estate complete in all respect as directed.	2015.00	Cu.M.	10,075.00
37	5	Cu.M.	Brick masonry in CM (1:5) in foundation, plinth, superstructure, walls, columns, etc. complete upto any height including scaffolding, curing etc. complete as directed.	5953.00	Cu.M.	29,765.00
38	180	Each	Removing carefully existing door or window wooden frame and stacking the same etc. complete as directed.	208.00	Each	37,440.00
39	140	Each	Removing carefully existing door shutter (single) or window shutters (pair) excluding teak wood frame and stacking the same etc. complete as directed.	194.00	Each	27,160.00
40	120	Sqm	Providing and fixing double leaf window shutter with 2nd class teak wood rails and styles 38 mm thick in glass panels to match with the existing windows of the building including heavy oxidized iron hinges and other fixtures and fastenings etc. complete. Note: Contractor has to replace partly or fully decayed portion of door shutter as shown by Engineer In-charge and payment will be made for the part replaced.	10651.00	Sqm	1,278,120.00
41	36	Sqm	Providing and fixing teak wood door shutter with 2nd class teak wood rails and styles 38 mm thick in single pieces and partly 20 mm thick wooden panelled, in single piece with bevelled borders fixed in grooves in style and rails including oxidised iron fittings etc. complete as directed.	4718.00	Sqm	169,848.00
42	4.5	Cum	Providing 2nd class teak wood in frames of doors, windows etc. wrought, framed and fixed in position including m.s. hold-fasts, coal tarring the surfaces coming in contact with masonry and concrete etc. complete as directed.	77216.00	Cum	347,472.00



Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
43	1	Cum	Demolishing RCC work including chajjas, columns, beams, hume pipe tanks etc . including stacking of steel bars and unserviceable materials separately within a lead of 100 Mtrs. complete as directed.	2697.00	Cum	2,697.00
44	7	Cu.M	Demolishing cement concrete (1:3:6) or richer mix including stacking the material and trasporting the material outside the MBPT estate etc. complete as directed.	1577.00	Cu.M.	11,039.00
45	20	Cu.M.	Excavation in dense soil in trenches including dressing of sides & ramming the formation, clearing of rank vegetation, bailing out water, re-filling the excavated material wherever directed, removing the excavated material from the site outside MbPT estate.	607.00	Cu.M.	12,140.00
46	16	Cu.M.	Providing and laying cement concrete of grade (1:2:4) for flooring , coping, columns etc. including necessary shuttering, curing etc. complete (using river sand).	6285.00	Cu.M.	100,560.00
47	70	Sq.M.	Providing and laying dry stone rubble packing 150 mm thick including filling interstices with small pieces of stone chips, thoroughly ramming, watering, consolidating etc. complete.	359.00	Sq.M.	25,130.00
48	50	Sqm	Supplying & fixing plain aluminium sheets (22 gauge) to bath and w.c. door shutters at bottom 20 cm on both sides etc. complete as directed.	685.00	Sqm	34,250.00
49	200	Cu.M.	Transporting the surplus excavated material, stones, debris, kutchra etc. from MbPT estate including loading & taking away the materials anywhere outside MbPT Estate etc. complete as directed.	564.00	Cu.M.	112,800.00
50	20	Sqm	Providing & fixing 30 mm average thick machine cut and machine polished kaddapa slab for kitchen platform, sink, shelves etc. including ledges, making holes for drainage pipe and gas entry pipes in cement mortar (1:3) bedding, jointed with neat cement slurry etc. complete as directed.	921.00	Sq.M.	18,420.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
51	50	sqm	Providing and fixing in position pre-cast RCC louvered window of size 0.6X1.0 Mtr. of section 75X75 mm with 16 mm dia. m.s. plain bars including 4 mm thick ground glass louvers 125 mm wide etc. complete as directed.	2745.00 (1647/.6)	sqm	137,250.00
52	8	no	Providing and fixing stoneware 'S' or 'P' type gulley traps with outlet & CI grating, 230X300 mm CI hinged cover with frame, one brick thick masonry chamber with cement concrete (1:3:6) bedding 150 mm thick, rubble packing 150 mm thick, cement and sand plaster (1:3) 15 mm thick, finished smooth with cement inside and rough outside including encasement, etc. complete as specified and as directed but excluding excavation. Size: 225X225 mm with 150 mm outlet & 225X225 mm size PVC grating	5464.00	Each	43,712.00
53	25	Mtr.	Providing and laying 300 mm dia non-pressure NP-2 class RCC pipes of approved quality with collars, jointed with stiff cement mortar (1:1) including providing tight packing of tarred spun yarn, curing etc. complete as specified and as directed but exclusive of excavation.	911.00	Mtr.	22,775.00
54	6	no	Providing and fixing 100 mm thick pre-cast (1:1.5:3) or M20 grade RCC rectangular covers with angle iron nosing and frame for inspection chambers of opening size 900X450 mm complete as specified and as directed.	5106.00	Each	30,636.00
55	22	Cum	Providing random rubble masonry above ground level with trap stone, set in cement mortar (1:6) including scaffolding curing etc. complete.	4704.00	cum	103,488.00
56	220	Sq.M.	Tuck pointing in cement mortar (1:3) to stone masonry upto a height of 10 Mtrs. above ground level etc. complete as directed.	360.00	Sq.M.	79,200.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
57	10	Sq.M.	Providing and fixing 4 mm thick clear and transparent acrylic sheet including teak wood battens of required size, complete including necessary fittings, teak wood battens to be painted with 2 coats of synthetic enamel paint over a coat of approved primer etc. complete as directed.	1,033.00	Sq.M	10,330.00
58	200	Mtr	Sealing the cracks in walls, RCC members etc. externally or internally at any floor level with the use of scaffolding or Jhulla for the crack width up to 20 mm using suitable crack fill material of cement and fine quartz sand putty including necessary addition of chemical in the proportion of 1:1 or as per manufacturer's instruction, properly grouting into cracks after necessary cleaning including applying two coats (100 mm width) of Polyalk WP of approved brand over sealed crack or as directed etc. complete (Payment shall be made in running meter of sealed crack).	142.00	Mtr	28,400.00
59	2180	Sq.M.	Providing and applying three coats of 'New Coat' manufactured by Dr.Fixit or 'Duckback-S' manufactured by Sunanda or equivalent over thoroughly prepared existing old waterproof surface without breaking the surface to build-up a total dry film thickness of 1 mm including priming coat as per the manufacturer's specifications etc. complete as directed.	542.00	Sq.M.	1,181,560.00
60	1	Job	Painting Internally to building at Abhilasha Nagar blg no 1 & 2 and UG watertank with pump room. Scrapping, cleaning, levelling & preparing the surface to receive synthetic enamel paint, synthetic flat paint, french polish, oil bound distemper, weatherproof exterior emulsion of approved brand and other painting works as indicated below. Providing and applying synthetic enamel paint with 'Asian Apcolite' or its equivalent in 2 coats in dados upto 1 m height and in	2,126,920.00	lump-sum	2,126,920.00

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
			<p>bathroom, mori, WC upto 1.2 m &amp; 0.3 for rooms, or wherever existing etc. as directed including scrapping the existing oil paint, clearing the surface etc. complete and Providing and applying synthetic enamel paint with 'Asian Apcolite' or its equivalent in 2 coats to all steel work over a coat of anti-corrosive Zink primer (yellow), such as m.s. grills, m.s. bars, XPM weldmesh, flats, all GI, CI pipes, steel work, electrical conduits, flushing tanks, m.s. covers of overhead tank and m.s. tanks, rolling shutters, gates etc. or wherever existing etc. complete and Providing and applying synthetic enamel paint and applying synthetic enamel paint with 'Asian Apcolite' or its equivalent in 2 coats to all wooden surfaces work such as doors, windows, hand rails, ventilators and wherever presently painted etc. complete. Providing and applying external wall surface with two coats of approved make and shade of 100% acrylic exterior paint (APEX manufactured by Asian Paints) in 2 coats to the external plastered surface of the building completely including chajjas, columns, RCC water storage tanks, compound wall from inside and front gate outside walls and wherever existing and directed, washing with approved detergents w.c. floors and other surface wherever required to remove dirt, dust, paint, darks/ stains etc. complete and Oil bound distemper of approved quality, make and shade in 2 coats over a coat of primer to all the internal walls, beams, columns, RCC jallies, RCC racks of the room courts etc. w.c. blocks, open passages etc. wherever presently painted and new surface. Lettering on existing structures to be redone/ repainted as per the existing number and letters on name boards including labour, materials, tools, scaffolding, removing debris and stacking in the compound.</p>			

Ite No.	Qty.	In Unit	Item Description	Rate Excl. GST	Per	Amount in Rs
61	12	qtl	Rebate for taking away scrap like unusable, rusted CI,GI pipes, steel etc. from the site.	3521.50	qtl	-42258.00
Total Amount "A" Rs.						16,139,242.00

Tenderers are requested to Quote their Percentage Rate in the attached Excel file (.xls)

- 1 Tenderers are advised in their own interest to inspect the site of work before tendering.
- 2 The quantities given above in the Schedule of Quantities and Rates are approximate and are furnished for the guidance of the tenderers.
- 3 The work is of top priority and the contractors are required to commence the work immediately upon the receipt of work order /release of site.
- 4 No materials will be supplied to contractor by this Port Authority and contractor will have to make his own arrangement for procurement of all material, tools etc. required for this work. The contractor will include the cost of all material, tools, tackles, plant & equipment etc. in the tendered amount while quoting for the work.