

NAME OF WORK: Removig, Replastering and painting of External plaster of staff quarters at NSC Mumbai					
Sl. No.	Description	Qty	Unit	Rate	Amount
1	Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris upto a distance of 50 metres or spreading in the compound and cleaning the site etc. complete.	725.00	Sqm	37.00	26,825.00
2	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days <u>scaffolding</u> etc.complete.	725.00	Sqm	608.00	440,800.00
3	Providing and fixing chicken mesh of 22 gauge, <b>with about 30 cm. width</b> at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	100.00	Rmt	95.00	9,500.00
4	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.	360.00	Sqm	205.00	73,800.00
5	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete.	360.00	Sqm	112.00	40,320.00
6	Providing and laying damp proof course 50 mm thick in M20 cement concrete layer and bitumen / using cement with waterproofing compound curing, formwork etc. complete	0.00	Sqm	320.00	0.00
7	Providing leak proof treatment by Injection grouting method to old floor without removing tiles of W.C., bath, with cement sand proportion of 1:1.5 and waterproofing compound at 2 kg/bag of cement mixed in 35 liters of water including drilling holes in required position grouting with above mixed solution and ceiling etc. complete	100.00	litre	28.00	2,800.00
8	Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/- including ponding test etc. complete.	340.00	Sqm	839.00	285,260.00
9	Providing and laying Vitrified <b>MATT finish</b> having decorative type of size 590 millimeter to 605 millimeter x 590 millimeter to 605 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning	340.00	sqm	1064.00	361,760.00
10	Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete	340.00	Sqm	32.00	10,880.00

11	Removing lime or lean cement concrete, old brick bat coba, and cement concrete, including stacking the spoils as directed with all leads, lifts etc, complete.	34.00	cum	397.00	<b>13,498.00</b>
12	Removal of plants / ficus grown by pulling out root system embedded in masonry, ( <b>Complete root has to be removed</b> ) cutting stem and <b>application of high/gur/lime formulation</b> as specified by the Architect or <b>other patented chemical biocide treatment such as biocide 'Glyce' (iso proplamine salt of glyphosate)</b> or other chemical as specified by the Engineer in charge etc. complete.	20.00	numbers	147.00	<b>2,940.00</b>
13	Lowering down the debris obtained from breaking and removing the <b>passage tiles and old waer proofing</b> / cement plaster / burnt brick masonry of the first floor by any means without causing dust nuisance and damage to structure, stacking the same as and where directed including cleaning the site complete	60.00	cum	534.00	<b>32,040.00</b>
14	Transportation of the debris obtained from breaking and removing the cement plaster / burnt brick masonry of the first floor by any means without causing dust nuisance and damage to structure,out side the campus as and where directed including cleaning the site complete	75.00	cum	450.00	<b>33,750.00</b>
15	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift from 1.5m To 3.0 m.) By Mechanical Means	10.00	cum	363.00	<b>3,630.00</b>
16	Removing old paint from steel and other metal surfaces and making the surfaces even with hand scrapping, scaffolding etc. complete.	50.00	Sqm	12.00	<b>600.00</b>
17	Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	50.00	Sqm	72.00	<b>3,600.00</b>
18	Providing and applying two coats of exterior acryaic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete. <b>Brand : Asian / Berger / Nerolac / DULUX</b>	1200.00	Sqm	208.00	<b>249,600.00</b>
19	Labour charges for providing groove in external plaster having width and spaced as directed by engineer incharge etc. complete.	50.00	Rmt	35.00	<b>1,750.00</b>
20	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	2.00	cum	9308.00	<b>18,616.00</b>

21	Providing and fixing in position HCRM / CRS (Corrosion Resistant Steel) bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	0.20	MT	66672.00	13,334.40
22	Providing first class Brick masonry with conventional / IS. type bricks in cement mortar 1:4 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete	2.00	cum	6070.00	12,140.00
23	Providing random rubble masonry first sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , racking out joints when pointing is to be done and striking joints from inside including watering etc.complete.	3.00	cum	4282.00	12,846.00
24	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:3 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	50.00	Sqm	155.00	7,750.00
25	Labour charges for providing groove in external plaster having width and spaced as directed by engineer incharge etc. complete	270.00	Rmt	35.00	9,450.00
26	Providing patti/ band 100mm wide on plastered surface 12 mm to 15 mm thick in C.M. 1:3 line and level including neat finishing scaffolding curing etc. complete				0.00
27	Providing and fixing green marble of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete	25.00	sqm	2052.00	51,300.00
28	Providing and fixing heavy duty inter locking concrete RUBBER MOULD GLOSSY PAVING BLOCKS of 60 millimeter thickness of having a strength of 400 Kg/sq.m of approved quality and shape on a bed of crushed sand of 25 to 30 millimeter thick including striking joints and cleaning etc. complete. (using 100% crushed sand)	30.00	Sqm	727.00	21,810.00
29	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and airtight C. I. cover of 75 kg with lid and frame fixed in cement concrete.	2.00	no	10511.00	21,022.00
30	Providing, laying and fixing <b>P.V.C. pipe for Soil vent / waste pipe</b> of 110 mm. dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary <b>excavation, trench filling / removal of old pipes</b> wherever necessary etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. <b>Brand and thickness has to be got approved before the execution.</b>	50.00	rmt	448.00	22,400.00

31	Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of <b>2.2 to 2.7 mm confirming to I.S. 13592- 1992</b> including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.	36.00	rmt	408.00	<b>14,688.00</b>
32	Refixing of APP sheets: Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :	50.00	Sqm	564.29	<b>28,214.73</b>
33	Providing and applying 30 mm thick self curing Ceremic Polymer Microconcrete of approved make having Compressive strength above M30, non shrink, impermeable , filling mortar to load carrying R.C.C member in two layers on cleaned concrete surface , including honey comb area (using manual/mechanical means). Mixing mortar of Nicosil C80 and fresh 53 grade cement with required water cement ratio for desired consistency and applying and finishing by manual travelling , curing after curing initial setting time etc, as per manufacturers specification etc. complete as per specification and as directed by engineer-in-charge. Work shall be executed by certified applicator only and work shall be guaranteed for 5 years and guarantee shall be provided on Rs. 500 /- stamp paper. (Bond coat mentioned below is to be done before coating) For repairing verandah beams	10.00	Sqm	2240.00	<b>22,400.00</b>
34	Raking out joints in lime or cement mortar and preparing the surface for repointing or replastering, including disposal of rubbish to the dumping ground within 50 metres lead.	1300.00	sqm	29.65	<b>38,545.00</b>
<b>Total</b>					<b>1,887,869.13</b>
<b>Add 12 % GST</b>					<b>226,544.30</b>
<b>total</b>					<b>2,114,413.43</b>

**Note: The agencies has to visit site and asses the work nature before quoting for the work**

1) The work is proposed to be carried out in occupied staff quarters; hence the windows and other openings have to be covered properly so that there is no dust, nuisance to the occupants.

2) The existing TV, telephone, electrical and other cables, strips of lightning arresters should be carefully handled and should not be damaged while exterior plaster chipping is taking place.

3) The agency has to arrange / bring suitable ladder, scaffolding materials considering the height of walls.

4) Before start of the painting, agency has to cover all the floors, window panes, glasses Almirahs, cub-boards, tables, and take precautionary measures not to spray paint.

5) Before payment of the final bill, the paint spilled in floors, windows etc have to be cleaned and the site handed over back in spic and span condition.

6) The rates quoted by the party to include scaffolding, ladders, and final cleaning, safety belts and helmets for the workers, for all locations like walls, ceiling, sloping roofs and in all floors and heights and depths, and for all shades with cost of all materials, labour, scaffoldings, T & P, hire & running charges of machineries, ladders, cans, brushes and other appliances etc. required for the efficient execution of work.