

**Maharashtra State Bureau of Text Book Production & Curriculum Research Pune**  
**ESTATE SECTION**

**Name of work : Maintenance work of civil asset of Balbharati Prabhadevi,Mumbai.**  
**Bill of Quantity**

IT. NO.	DESCRIPTION OF ITEMS	QUANTITY	RATE	UNIT	AMOUNT
1	2	3	4	5	6
B 1	<b>Excavation:-</b> Excavation for foundation in earth soil of all types, sand gravel and soft murum including removing the excavated materials upto a distance of 50 M. beyond the bldg. Area and stacking and spreading as directed dewatering preparing the bed for foundation and necessary back filling, ramming watering including shoring and strutting etc. complete [Lift upto 1.50 M](1/BDA1, P No 7)	10.00		Cum.	
2	Excavation for foundation in hard rock Pneumatic chiselling using compressor etc. complete including removing the excavated materials upto a distance of 50M. beyond the building area and stacking and spreading as directed including dewatering, preparing the bed for foundation and necessary back filling including shoring and strutting etc. complete [Lift upto 1 .50M]	2.00		Cum.	
3	...do...but for RCC work by Pneumatic chiseling by compressor etc. complete.	2.00		Cum.	
4	Filling in plinth and floors with hard murum brought from outside including watering and compaction etc. complete(14/BDA11 P.No10)	5.00		Cum.	
5	Providing and laying dry trap rubble soling of 20 cm. to 23cm. thick including hand packing and compacting etc. completed for building(15/BDA-12 P.No10)	5.00		Cum.	

<b>C 6</b>	<b>Concrete work:-</b> Providing and laying in CC 1:4:8 of trap metal for foundation and bedding including bailing out water, form-work compacting and curing etc. complete.(1/BDE1C P. No 13)	3.00		Cum.	
7	Providing, laying CC 1:3:6 of trap / quartzite / granite / gneiss metal for plain or moulded sills cornices, joints, blocks, if course or architrave of required size and shape including centering, form-work, roughening them if special finish is to be provided and curing etc. complete and finishing if required.(1-3/BDE10 P. No 13)	3.00		Cum.	
8	...do...as per Item No. 6 cement concrete 1:2:4 etc. complete Plain concrete (6/BDE4b P.No.14)	2.00		Cum.	
<b>D 9</b>	<b>Masonry work:-</b> Dismantling BB Masonry in lime or cement mortar and stacking the material as directed with all lifts and leads	10.00		Cum.	
11	Providing IInd Class B.B. Masonry with conventional / IS. Type bricks in CM. 1:6 in superstructure including striking out joints, racking out joints, watering and scaffolding complete (1/BDG1 P. No 25)	4.00		Cum.	
12	Providing IInd class B.B. Masonry with conventional / IS type bricks in CM 1:4 in half brick thick wall including M. S. longitudinal reinforcement of 2 bars of 6mm.dia. / 2 hook iron strips 25mm.xl.6mm. at every 3 <sup>rd</sup> course, properly bend and bounded etc. complete (5/BDG7 P.No.25)	10.00		Sqm.	

13	Providing U.C.R. masonry of trap stone in CM. 1:6 in foundation and plinth and super structure in internal / external walls including bailing out water, striking out joints on unexposed faces and watering etc. complete.(1-4/BDG1 P.No.25)	1.00		Cum.	
14	Providing and casting in situ c.c. 1:2:4 of trap metal for coping to plinth or parapet moulded or chamfered as per drawing or as directed including centering formwork compacting roughening them, if special finish is to be provided and curing and finishing, if required etc. complete.(1-3/BDE10 P No.13)	1.00		Cum.	
15	Providing flush groove pointing with cement mortar 1:3 for stone masonry including scaffolding and curing complete.(16/BDL-1A/P.No.39)	5.00		Sq.m.	
16	Repair of Bricks work in patches of building, drains,Kerbs etc or where required in 1:4 mix of cement & course sand mortar,including dismantling of damage works.	2.00		Sq.m.	
<b>E 17</b>	<b>Plastering work:-</b> Removing cement or lime plaster including disposing all the spoils as directed with all leads etc complete.(35/BDW 8-25 P.No.133)	25.00		Sq.m.	
18	Providing sand faced plaster externally in C.M. 1:4 using Kharaslia / Kasaba type of sand in all positions including base coat of 15mm. thick using waterproofing compound 1 kg per bag of cement keeping the base coat roughening to receive the sand faced treatment 6 to 8mm. thick in C.M. 1:4 finishing the surface by taking out grains and curing etc. complete.(11/BDL 7 P.No.38)	25.00		Sq.m.	

19	Providing internal cement plaster 12mm. Thick in single coat in C.M. 1:4 without neeru finish to concrete or brick surface in all position including scaffolding and curing etc. complete.(4/BDL 2A P.No.37)	20.00		Sq.m.	
20	Providing internal cement plaster 12mm. thick in single coat in C.M. 1:4 with neeru finish to concrete or brick surface in all positions including scaffolding and curing etc. complete.(15/BDL P.No.39)	10.00		Sq.m.	
21	...do... as per item no. 16 a. but cement finish etc complete.(4/BDL-2A P.No.37)	10.00		Sq.m.	
22	Providing internal cement plaster 20mm. thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface in all positions including scaffolding and curing etc. complete.(8/BDL 4A P.No.37)	10.00		Sq.m.	
23	...do... as per item no. 26 but with neeru finish etc. complete.(15/BDL-10A P.No.39)	20.00		Sq.m.	
24	...do...as per item no.26 but with cement finish etc. complete.(15/BDL10A P.No39)	5.00		Sq.m.	
25	12-20 mm thick plaster in patch repairs in 1.4 mix of cement and sand mortar	50.00		Sq.m.	
26	Providing and fixing 30 cm. wide 22 guage chicken mesh over joints of reinforced concrete member to be fixed by means of G.I. "U" nails and brick/ stone masonry of approved quality including necessary nailing,drilling and lapping etc. complete.as directed(P.W.D. Thane D.S.R.It.No.Bd.L-20 pg.no.34)	10.00		Sq.m.	

27	Chipping off existing loose, damaged concrete from RCC member upto sound core of concrete and maximum 6mm beyond main r/f. carefully with chisel and hammer as directed including wire brushing and washing of concrete substrate and reinforcing bars as directed.AND Providing and applying "Rust Remover of FOSROC chemicals or euivalent to existing R/F bars including wire brushing, cleaning etc. complete as directed.AND Providing and applying two coats of zinc rich anticorrosive primer coating or rust preventor slurry made out of "Polyalk Fixoprime" or other equivalent approved brand to cement and r/f bars in proportion as per manufacturer's recommendations as directed complete.	25.00		Sq.m.	
28	Providing and applying bonding coat of slurry made of "Polyalk Fixoprime" or Polymer and cement in proportion 1:1 to concrete and r/f. substrates complete as directed including surface preparation etc. complete. AND Providing and applying cement mortar/ concrete in 1:1.5:2 (1 cement: 1.5 sand: 2 parts of metal no.1) trowelling to exposed concrete members or hand -packed with embedding washed stone metal at random in avg.about 40 to 50mm thk. Including adding Nitobond AR or "Polyalk EP" at 5% by weight of cement, CEBEX 112 ( 225gms/ bag of cement) curing etc. complete.	50.00		Sq.m.	

<b>F 29</b>	<b>R.C.C.work:-</b> Providing and casting in situ cement concrete M 20 of trap metal for R.C.C. work in footings of R.C.C. columns, pile caps including bailing out water, formwork, compaction, curing and roughening the surface, if special finish is to be provided [excluding reinforcement](8/BDF5c P.No.17)	1.00		Cum.	
30	...do... but for R.C.C. columns etc. complete.(5/BDF5a P.No.16)	1.00		Cum.	
31	...do...but for beams and lintels etc. complete.(8/BDF5c P.No.17)	1.00		Cum.	
32	...do...but for R.C.C. slab and landing etc. complete.(11/BDF8c P.No.18)	1.00		Cum.	
33	Providing and fixing in position plain / tor steel bar reinforcement of various dia. for R.C.C. pile caps, footings of R.C.C. columns, slabs, beams, chajjas, pardis, fins, arches, coping etc, as per detailed drawing and design including cutting, bending, hooking and binding with wires or tack welding and supporting the bars as required etc. complete.(20/BDF17 P.No.21)	0.20		M.T.	
34	Providing and fabricating, fixing structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawing including fixing in position without connecting plate braces etc. and one coat of anti corrosive paint and over it two coats of oil paint of approved quality and shade(DSR P.No.11/ BDC 2)	0.125		M.T.	
<b>G 35</b>	<b>Doors and window:-</b> Removing doors and windows with frame and stacking the material as directed with all leads lifts etc complete.(27/BDW-8-17/P.132)	5.00		No.	

36	Providing and fixing in position precast reinforcement cement concrete frame for doors, windows, louvers windows of section 125/65 mm or 100/65 mm for compressed strength of 400 kg/cm <sup>2</sup> with wood like finish, fixing hinges with 4 nos. of threaded holes in each plate. Two no. of 12 mm dia.holes on horizontal top members for towerbolts, 2 nos. of 16 mm dia. Holes on vertical members for fixing aldrops or tadi,3 nos. of mild steel galvanized heavy duty hinges, MS galvanized specially designed holdfast anchored for steel bars, of vertical members etc. complete (with all leads) including painting to the frame (As per IS :8523 1983). (P.W.D. Thane D.S.R.It.No.Bd.T-3 pg.no.59)	10.00		Rmt.	
37	Providing and fixing T.W members for doors, hand rails, wardrobes etc. including cutting, finishing, fixing with all necessary labours and fixtures like hold fasts, nails, screws etc including oil painting 2 coats complete [teakwood members for frames or hand rails, purlins etc. and teakwood planks](7/BDQ4 P.No 63)	0.1		Cum.	
38	Providing and fixing C.C.T.W. beeding of size 40mm. X 10mm. to the door frame of size 100mm. / 60mm. X 60mm. Including chamfering, finishing with three coats of oil paint etc. complete as directed by Engineer-in-charge.(Market rate )	5.00		Rmt.	

39	Providing and fixing cold rolled steel hollow door frame 105mm x 60mm for size 2.05 x 1.06 M. including hold fat hinges, tie members with red oxide and gray paint etc. complete as per I.S.I. specifications and code of practice prescribed including anticorrosive treatment as directed by the engineer.(83 BDT P.No.91)	2.00		No.	
40	Removing damaged existing shutter and providing new shutters in single leaf 32mm. thick commercial type of exterior grade as detailed drawings including lipping patti, wrought iron fixtures and fastenings and handles on both sides and finishing with oil painting three coats etc. complete(36 BDT 16 P.No.80)	5.00		Sqm.	
41	...do..as per Item No. 68 a. but with 3.00mm thick veneers.(36 BDT 15 P.No.80)	5.00		Sqm.	
42	Providing and fixing aluminum sheet of 24 gauge of various size as per requirement to the door shutters upto 0.65M. Ht. Including cutting in the required size, bending, folding the edge, if necessary and fixing to the shutter in a proper position with nails etc. complete.	5.00		Sqm.	

43	Providing and fixing PVC door shutter 30mm. thick Golden Aqua,Fibro plast or equivalent type made out of 25mm. thick EVA foam pressed with moulded ABS sheet 1.5mm. thick with PVC channel around the door of approved colour including necessary fittings such as alluminium handles, tadi patti, tower bolt etc. complete(DSR P.No.93/ 88,84/53/BTD-84)or Providing & fixing 30 thick fiber glass composite materials moulded door shutter as manufactured by M/s. Fibro Plast (Latur) or any other approved manufacturer consisting of composite material and plywood 3.5 mm thick with 1.50 to 2.0 mm thick on all the sides of compsoite material in both single and double leaf patterns,including all material labour etc. complete.9(M.I.D.C.Tender Rate)	5.00		Sqm.	
44	Providing, fixing doors and windows fixtures [Chromium plated] Door Fixtures [Chromium plated] i) Aldrop 16 x 300mm.	5.00		No.	
45	Handle	5.00		No.	
46	Tower Bolt	5.00		No.	
47	Tadi patti	5.00		No.	
48	Hinges	5.00		No.	
49	Door stopper	5.00		No.	
50	Window fixtures [Iron Oxidized]:-i) Stay with nut bolt	5.00		No.	
51	Handle with nut bolt	5.00		No.	
52	P/F Al.Curtain rod of 25 mm dice with C.P brackets in palmats	5.00		Rmt.	

53	Removing repairing and refixing the alluminium doors,partitions with using old door frames and shutter frames,partitions and glass including new material like of PVC rubber gasket floor springs pivots, handles glass wool, locks nails & screws and powder coating etc, complete	5.00		Sqm.	
54	Providing and fixing Powder coated alluminium windows as per 1868/1982 two tracks sliding windows made out of alluminium sections Jindal or equivalent make by using frame sections and shutter sections as per cateloge weighing 6.9kg / sqm with all necessary fixtures and fastening such as roller bearing in regular casing and self locking latch fitted in vertical section of shutter including 5mm thick plain glass with all required screws and nuts etc complete	5.00		Sqm.	
55	Providing and fixing steel windows of various sizes as per detailed drawing without hot dip zinc coating with/without ventilator including fabricating/glazing with plain obscured glass pane, box hinges and at approved type and fixtures and fastenings without teakwood boxing and finishing with oil painting two coats complete with guard bars 12mm. square at 10 cm. C/C. including removing damaged steel windows etc. complete.(50/BDT27A P.No 83)	5.00		Sqm.	
56	Providing and fixing M.S. Grill work @ 15 kg / sqm. of various size as per detailed drawing and design without hot dip zinc coating iron fixtures and fastenings and three coats of oil painting over one coat of red oxide primer etc. complete. (BDT-37)	5.00		Sqm.	

57	Providing fabricating and fixing M.S. square pipe gate as per detailed designed and drawing including 50 x 50 mm 14 G. M.S. square pipe for main frame and vertical M.S. pipe of 25x25 mm 14 g @ 150mm CC M.S. sheet 14 G. fixed with Ms flat of size 25x5mm & rings of 25x 5 mm M.S. flat as per drawing and fixtures such as 60mm dia aldrop two locking arrangement heavy duty hinges three Nos. for each panel including fixing the gate, to ISMB including oil painting with three coats etc, complete.	5.00		Sqm.	
58	Providing sills, jambs and frames of white/approved colour marble slabs 20 mm thick of approved quality, vein and colour with machine polished surface on a bed of cement mortar 1:4 including neat cement float, filling joints with cement slurry to match the colour of the slabs, curing polishing and rounding edges, cleaning etc.complete.(P.W.D. Thane D.S.R.It.No.Bd.M -31 pg.no.42)	5.00		Sqm.	
59	Providing and fixing mosquito proof and flyproof mesh to windows, ventilators with Malaysian wood frame and nuwud wood size 0.05 X 0.05 including fixing of mesh of single 0.025 X 0.025 including fixed for windows,ventilators including painting, layout charges,materials etc. complete	5.00		Sqm.	
60	Providing and fixing hydraulic door closer manufactured as per best engineering practice as per IS:3564 for doors and windows with necessary materials and labour cost etc.complete. (Bearing IS mark only)(Market Rate)	1.00		No.	

H 61	<b>Water tank:-</b> Providing and fixing H.D.P./PVC plastic container one piece moulded water tank made out of density Polyethylene and built-in corrugations inclusive of delivery upto destination housing fixing of accessories such as ball cock, inlet, outlet, overflow pipe inclusive of all taxes. 200 to 1,000 Liters	100.00		Ltr.	
I 62	<b>Water supply and sanitary fittings:-</b> Providing and fixing white glazed earthenware lipped flat back or corner type urinals with flushing cistern including lead soil pipe, lead trap connection upto the outer face of the wall etc.	2.00		No.	
63	Removing of old damaged W.C. pan including stacking, disposing off the removed material with all leads and lifts etc. complete.	2.00		No.	
64	Providing and fixing Orissa type 1st class white glazed earthenware 580mm. W.C. pan with 'S' or "P" trap PVC / CI soil and vent pipe upto outside face of the wall 1:2:4 C.C. lime concrete bedding without flushing tanks and its accessories etc. complete.	2.00		No.	

65	Providing and fixing European type white glazed earthenware water closet pan with polished T.W. Mahogany/ PVC seat and lid with chromium plated brass hinges and rubber buffer including cast iron soil and vent pipes upto the outside face of the wall and 100 mm. diameter C.I. plug bend, including paper holder, 10 litres PVC low level flushing cistern with fitting, inlet pipes with stop tap, brackets for fixing the flushing cistern,40 mm. diameter enameled porcelain bends and rubber -209 mm. diameter P.V.C. overflow pipe with special and mosquito proof coupling chromium plated working handle, painting of exposed pipes and cutting and making good walls and floors.Spec. No Bd.V.21 Page No. 561.(P.W.D. Thane D.S.R.It.No.Bd.V-16 pg.no.86)	1.00		No.	
66	Providing and fixing 10 litres fibre low level flushing cistern with fitting inlet pipe with stop tap/ bracket for flushing the cistern, 32 mm.diameter PVC flush pipe with fitting and clamps,20 mm diameter gaivanised iron overflow with mosquito proof capping, galvanized iron chain pull, painting of exposed pipe and making good walls and floors etc. complete (As directed by Engineer incharge.)(P.W.D. Thane D.S.R.It.No.Bd.V-57 pg.no.97)	1.00		No.	
67	P/F black solid plastic seat cover.	1.00		No.	
68	Providing and fixing 15cm. x 10cm. salt glazed stone ware gully trap in cement concrete 1:4:8 outside the building including C.I. grating in the sink connecting glazed stone ware pipe, brick Masonry chamber with C.I. lid and cast iron grating for the gully trap etc. complete.	2.00		No.	

69	Providing and constructing brick masonry inspection chamber 60cm. x 45cm. x 60cm. including 1:4:8 C.C. foundation, 1:2:4 C.C. channels, half round GSW pipes, brick masonry, plastering from inside and airtight RCC cover with C.C. frame or MS. angle frame with C.C. cover of 3" thick fixed in C.C. etc. complete.	2.00		No.	
70	Providing and laying brick masonry inspection chamber 90.cm. x 45cm. x 60cm. including 1:4:8 C.C. foundation 1:2:4 C.C. channels, half enamel GSW pipes, brick masonry, plastering from inside, outside and airtight R.C.C. Lid with frame / frame with M.S. angle with C.C. cover of 3" thick fixed in C.C. etc. complete	2.00		No.	
71	Removing damaged G.I. pipeline of various dia. including if required breaking of B.B.M. or concrete work etc. with all leads, lifts etc. complete and excavation in soil, hard murum is required and stacking etc. as directed by Site-Engineer-in-charge	5.00		Rmt.	
72	Refixing the removed G.I. pipeline of various dia. [15 to 50mm] with accessories bends, tees, unions etc. as per instructions etc. complete.	5.00		Rmt.	

73	Providing and laying in trench on walls, bricks or concrete surfaces of various dia. medium type "B" class having embossed as ISI mark on G. I. pipes with screwed sockets, joints necessary G.I. fittings such as sockets, back-nuts, elbows, bends, tees, reducers, plugs, clamps etc including necessary drilling holes in walls, slabs etc. and remaking good the demolished portion to remake the same in original condition neatly and applying anticorrosive oil paint and two coats of oil painting etc. complete. i) 15mm. Dia.	25.00		Rmt.	
74	20mm. Dia.	10.00		Rmt.	
75	25mm. Dia.	10.00		Rmt.	
76	40mm. Dia.	5.00		Rmt.	
77	50mm. Dia.	5.00		Rmt.	
78	80mm. Dia.	5.00		Rmt.	
79	Providing and supplying and fixing new G.I. fixtures for pipeline. i)15MM. dia. Bib/Stop tap C.P.	10.00		No.	
80	Pillar cock C.P.	5.00		No.	
81	25 MM. Dia. Heavy wheeled Valve[Brass]	1.00		No.	
82	25 mm.Heavy duty patti valve [Brass]	5.00		No.	
83	40mm c.p. waist coupling	2.00		No.	
84	Bottle Trap for wash basin	1.00		No.	
85	60 mm.Heavy duty patti valve [Brass]	1.00		No.	
86	Ball cock 40 mm.dia.[Brass]	1.00		No.	
87	40mm. Dia.Heavy duty patti valve[Brass]	1.00		No.	
88	40mm. Dia. heavy wheeled valve[Brass]	1.00		No.	
89	Ball cock 50 mm dia.[Brass]	1.00		No.	
90	50 mm. dia.heavy Wheeled valve[Brass]	1.00		No.	
91	50 mm.Patti Valve [Brass] Heavy	1.00		No.	
92	Patti /wheeled valve [Brass] 80 mm dia	1.00		No.	

93	Removing damaged wash hand basin with its water connection and providing and fixing new wash hand basin of white glazed of size 55 x 40cm. of approved make and colour including pillar tap / cold and hot water tap, brackets, rubber plugs and brass chain, stop tap and necessary pipe connections including PVC water pipe and trap upto Nahani trap etc. complete.	2.00		No.	
94	P/F PV.C.pipe (connection and outlate) of wash basin	5.00		No.	
95	Making holes by dismantling C.C. or B.B.M. portion of various floor levels, providing and fixing 'T'-'Y' bend including removal of dismantled material as per directions etc. complete.	5.00		No.	
96	Removing damaged/broken A.C. or G.I. / C.I. pipe after removal of all pipelines in C.M. at various floor level etc. complete. and providing and fixing stabilizer pipe / PVC soil Vent / Waste pipe with all fixtures. i)75mm. Dia.	5.00		Rmt.	
97	110mm. Dia.	5.00		Rmt.	

98	Removing damaged/broken A.C. or G.I. / C.I. pipe & Providing and fixing 100 mm. diameter centrifugally (Spun) cast iron soil/vent/ waste pipes with necessary fixtures and fitting such as bends, tees, single junction, double junction, slotted vent offsets on walls or in the ground including filling joints with lead with red lead oil paint coat and two coats. of anti corrosive paint including fixing the pipe on walls by means of nails driven through lugs in wooden holder/battens and supported on ground floor by C.C.1:2:4 of 30 cm. x 30 cm. size blocks complete. Spec. No. Bd.V.36 Page No. 570.(P.W.D. Thane D.S.R.It.No.Bd.V-37 pg.no.93)	5.00		Rmt.	
99	...do..75mm.	5.00		Rmt.	
100	Providing and fixing PVC Supreme / Princes make or equivalent for rain water pipe including removing damaged AC / CI pipes. i)110mm Dia.	5.00		Rmt.	
101	75mm Dia.	5.00		Rmt.	
102	150mm. Dia	5.00		Rmt.	
103	Providing, laying and fixing PVC pipes of various dia. With fittings such as bends, tees, reducers, clamps etc. including necessary excavation, trench filling etc. complete. i) 25mm. Dia	5.00		Rmt.	
104	40mm. Dia	5.00		Rmt.	
105	50mm. Dia.	5.00		Rmt.	
106	Cleaning of chamber, gully trap, chambers, W.C. Chamber etc. of various size including removing of waste material including rodding of S.W. line connected to chambers etc. complete. i) Gully trap chambers	2.00		No.	
107	600x450mm.size Inspection Chambers	2.00		No.	
108	900x450mm. size Inspection Chambers	2.00		No.	

109	Providing, fixing C.C. frame and covers of various size including removing damaged cover and frames and fixing the new C.C. covers and frame in C.M. including chamfering, plastering etc complete. i)Gully trap	2.00		No.	
110	600x 450mm. Size chamber	2.00		No.	
111	900 x 450mm. Size chamber	2.00		No.	
112	Providing, casting in a pre-cast yard elements such as cover slabs for drains grills,kerb stone,dividers man hole frames,man hole cover gutters,fence post grillages rails lintels,sills,bed blocks,steps or any other members or elements as per drawings and specifications using RCC grade M-25 or M-30 including shuttering as may be required with compacting by plate vibrator,curing and finishing the elements where required with 1:3 CM mortor transporting to site and erecting in position grouting with cement mortor 1:3 as may be required and curing etc. all labour and material complete(Excluding cost of stell reinforcement)a) Elements weighing up to 51 to 100 kg.(M.I.D.C. Tenrer Rate)	1.00		Cum.	
113	Removing damaged kitchen sink coupling and waste pipe and providing, fixing new coupling and pipe of approved quality etc. complete [Only coupling]	1.00		No.	
114	...do...as per Item No. 55 a. but only waste pipe.	1.00		No.	
<b>j 115</b>	<b>Water proofing work</b> :- Removing tar or coba from terrace slab,bath,w.c. and disposing all the material as directed etc complete	50.00		Sqm.	

116	<p>Providing 150 mm cement based water proofing treatment to terrace (Indian water proofing) 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 and mixed with approved water proofing compound and laying the brick bats on bottom layer of cement mortar (1:5) and mixed with approved water proofing compound, filling upto half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer, jointing of brick bats with cement mortar 1:3, mixed with approved water proofing compound and finally top finishing with average 20 mm. thick layer of same mortar added with jute fibre at 1 kg. per bag including finishing the surface smooth with cement slurry and mixed with approved water proofing compound, marking the finished surface with false squares of 300 mm. X 300 mm making the junctions at the parapets rounded and tapered towards top for required height with drip mould at the junction of plaster and curing etc. Complete with a guarantee of seven years. (P.W.D. Thane D.S.R.It.No.Bd.J-5 pg.no.27)</p>	50.00		Sqm.	
117	<p>Providing water proofing to flooring of sanitary blocks Bath / WC consisting one layer of brick bat coba in 1:2:4 of 52.75mm. thick sandwiched between two layers of C.C. 1:2:4 20mm. thick with waterproofing compound to be provided to receive tiles firm adhesive curing and cleaning etc. complete</p>	5.00		Cum.	

118	Providing water proof bedding for flooring/dado of Bath and WC 25 mm. thick in cement mortar 1:3 including using 1 kg. of water proof compound per bag of cement including levelling curing etc.complete.Spec. No. : As directed by Engineer in charge (P.W.D. Thane D.S.R.It.No.Bd.J-10 pg.no.27)	20.00		Sqm.	
119	Providing and carrying out internal water proofing of structures like toilets, basements, watertanks, lift pits, slab walls of all types or similar structures by injection grouting of construction joints, honey combed areas junctions of walls & rafts including drilling holes and fixing nipples etc. as may be required by providing nozzles of minimum 20 mm dia, grouted at suitable intervals and injection grouted with pure cement slurry or cement slurry with water proofing compound or as per specialist agencies practices and after grouting covering the surfaces of wall, bottom rafts or any other area required with water proof plaster of required thickness and giving test for water tightness including providing 7 years guarantee for water tightness and workmanship. Work shall be carried out through reputed agency.(M.I.D.C.Tender Rate)	1.00		MT.	

120	Removing leakages of W.C. Bath and kitchen Nahani trap with filling inside tile joints with BIB and DS powder mix compound injecting with above waterproofing material for WC, Bath, Kitchen Nahani trap coating with waterproofing compound from outside of wall by removing plaster brickwork and remaking the surface etc. complete with all labor, material, transportation etc. complete. i)Bath	2.00		No.	
121	W.C.	2.00		No.	
122	Kitchen	1.00		No.	
<b>K 123</b>	<b>Flooring work:-</b> Providing and laying polished Kotah stone flooring 25 to 30mm. thick in required width in plain / diamond pattern on a bed of 1:6 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	20		Sqm.	
124	Providing and laying Ceramic tiles of approved quality 30cm.x30cm.x8mm. for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white / coloured cement slurry and cleaning, curing etc. complete.	10.00		Sqm.	
125	-- do -- as per item no. 72 but for dado and skirting etc. complete.	10.00		Sqm.	
126	Providing and laying C.C. 40mm. Thick [IPS. flooring] with 1:2:4 C.C. laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm. x 30cm. or other size laid diagonally / square etc. finishing smooth [with extra cement] in any colour as directed and curing etc complete.	20.00		Sqm.	

127	Providing and fixing 35 to 40mm. thick one or both side polished and edges black kadappa of various length and width including placing in / over B.B.M. / UCR wall with making grooves in existing B.B.M. Wall in cement mortor 1:4 curing polishing,cleaning etc.and in proper line and level and placing the kadappa for shelves, kitchen otta and finishing, cleaning etc. complete [ for shelves in store, office,partition for urinals, etc.]	5.00		Sqm.	
128	...Do...as per Item No... but for Kadappa patti 40x20mm. etc. complete.	5.00		Rmt.	
129	Providing and laying rectified and vitrified mirror finish decorative type tiles of any size of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints with cement slurry, curing and cleaning etc. complete. (P.W.D.Pune D.S.R.It.No.56 BDM pg.no.51) a) Flooring	30.00		Sqm.	
130	b) For dado and skirting	100.00		Sqm.	

L 131	<b>Painting Work:-</b> Providing, filling the cracks in wall by ROFF or equivalent crack seal material including- cutting the crack with cutting machine upto 50mm. depth and filling the cracks with the crack seal material and finishing the surface with cement and crack seal upto original face etc. complete.	10		Rmt.	
132	Providing and applying "Sandtex / Apex"/"Luster" paint of [premium textured] approved quality for buildings including cleaning the wall surface with wire brush and washing and applying "Sandtex / Apex" paint in two coats including all labours, scaffolding etc. complete and as directed by the Engineer in charge	700.00		Sqm.	
133	Providing and applying two coats of Synthetic enamel paint of approved colour in new / old structural steel work, wood work including scaffolding, if necessary, cleaning and preparing the surface etc. complete.	200.00		Sqm.	
134	Providing and applying Acrylic Emulsion paint of approved quality colour and shade to old or new surfaces of wall in two coats including scaffolding, preparing the surfaces etc. complete.	800.00		Sqm.	
135	Removing old paint moss by steel wire brushing or scrapping the wall surface and preparing the wall surface including scaffolding etc complete	500.00		Sqm.	
136	Providing and applying white-wash in two coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down complete. Spec. No. Bd. P.1 Page No. 412	500.00		Sqm.	

137	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coat including removing old paint by steel wire brushing and or scraping, sand papering, preparing the wall surface smooth including necessary repairs to scratches, providing and applying priming coat, scaffolding, (including the priming coat.) complete. Spec. No. Bd. P.5 Page No. 413	200.00		Sqm.	
138	Providing and applying two coats of water proof cement paint of approved manufacture and approved colour and shade to the plastered surfaces including scaffolding, if necessary, cleaning, preparing the surface, watering etc. complete.	100.00		Sqm.	
139	Painting with anti corrosive paint three coats (P.W.D. Thane D.S.R.It.No.Bd-O 7 pg.no.47)	20.00		Sqm.	
<b>M 140</b>	<b>Miscellaneous work:-</b> Providing and applying Perma wall guard waterproofing paint on wall surface in two coats i.e. primer coat and one coat on Primer etc. complete.	5.00		Sqm.	
141	Providing / applying bonding coat of Perma Bond SBR and cement slurry in 1:1 proportion including cleaning the surface etc. complete.	5.00		Sqm.	

142	Providing and applying perma Eazee coat water proofing material for RCC slab surface / wall surface by removing dust material including applying eazee coat to slab surface or wall surface with three coats including laying fiber mesh and base coat (Primer) with Perma Bond SBR and cement including all labourers materials, leads & lifts etc. complete as directed by Engineering charge	5.00		Sqm.	
143	Providing and fixing fibre mesh for entire surface for applying Eazee coat treatment with all labour, material, transport etc. complete.	5.00		Sqm.	
144	Providing and fixing sun control film (Polyster) of Garware / Lumax or equivalent make of approved shade and quality to plain glass panes including pasting the film to glass with all labours etc complete. (T.S.E.No. 1137 2006-2007)	2.00		Sqm.	
145	Providing and fixing 4mm. thick plain / Bajari glass including removing of old broken glass and its putty, pins including cutting in proper size etc. complete.	25.00		Sqm.	
146	Renewal of old glass puttey including removal of damaged glass puttey.(Market Rate)	100.00		Rmt.	
147	P/F float glass pans of 5.5 mm thickness in aluminum window & doors.(Market Rate)	10.00		Sqm.	
148	Transportation of scraped material / cement concrete / debris / soil etc. by tempo / truck outside the Board's premises including loading, unloading etc. all complete [Each trip of 5 Cum]	5.00		No.	

149	Providing and fixing R.C.C. jali of required size, design and shape including fixing in position in C.M. 1:4 etc. complete as directed.	2.00		Sqm.	
150	Repair & welding by gas or electric plant in windows,grills & iron works(Market Rate)	25.00		Cms.	
151	Providing mandays for attending minor rectification work arising with the existing material and T&P including assist to above i)Electrician	1.00		Day	
152	Skilled Mason	1.00		Day	
153	Skilled Plumber	1.00		Day	
154	Skilled 1st class Carpenter	1.00		Day	
155	Mali(gardener)	1.00		Day	
156	Welder	1.00		Day	
157	Hiring of Welding Machine	1.00		Day	
158	Unskilled labour [Male & Female]	1.00		Day	
	<b>Total (A+O)</b>		<b>Total Rs.</b>		<b>748860.00</b>
	<b>Total Rupees (In Words) :</b>		<b>Say Rs.</b>		<b>748860.00</b>