

<b>CHAPTER - 9 : FLOORING, PAVING AND DADO</b>				
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (Rs.)</b>	<b>Cement Qty.(qtl.)</b>
<b>BRICK FLOORING</b>				
091010	Brick on edge flooring with bricks of class designation 7.5 including cement slurry etc. complete in cement mortar			
091011	1:4 (1cement: 4coarse sand).(With FPS Bricks)	Sqm	240.66	0.185
091012	1:6 (1cement: 6coarse sand).(With FPS Bricks)	Sqm	240.66	0.129
091020	Flat Brick flooring with bricks of class designation 7.5 including cement slurry etc. complete in cement mortar			
091021	1:4 (1cement: 4coarse sand).(With FPS Bricks)	Sqm	169.92	0.105
091022	1:6 (1cement: 6coarse sand).(With FPS Bricks)	Sqm	169.92	0.075
091030	Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary)of average thickness 25 mm including ramming sub grade :			
091031	Brick on edge	Sqm	221.76	
091032	Flat brick	Sqm	152.35	
091040	Deduct where railway bricks old / new are supplied			
091041	From flat brick flooring	Sqm	102.85	
091042	From brick on edge flooring	Sqm	153.61	
091050	Extra for brick flooring (with F.P.S bricks) laid in diagonal / herring bone bond or other pattern as specified	Sqm	11.01	
091060	Dry stone ballast 50 mm nominal size, rammed in floors 75 mm thick layer	Sqm	103.87	
091070	Moorum flooring 10 cm thick (consolidated depth) including watering and ramming. With Contractor's Moorum	Sqm	98.81	
091080	Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 12.5mm nominal size) of thickness 25 to 40 mm as under layer of flooring	cum	1990.67	3.200
091090	Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring	cum	2044.15	3.200
<b>CEMENT CONCRETE FLOORING</b>				
092010	Cement concrete flooring 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc.			
092011	25mm thick with 12.5mm nominal size stone aggregate	Sqm	86.95	0.123
092012	40mm thick with 20mm nominal size stone aggregate	Sqm	110.34	0.170

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092013	50mm thick with 20mm nominal size stone aggregate	Sqm	128.60	0.202
092014	75mm thick with 20mm nominal size stone aggregate	Sqm	171.59	0.281
092015	Extra for nosing of steps	Sqm	23.53	
092020	Cement plaster skirting (upto 30cm height) with cement mortar 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement			
092021	15mm thick	Sqm	98.09	0.110
092022	18mm thick	Sqm	100.06	0.140
092030	Cement concrete pavement with 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) complete	cum	2022.84	3.200
092040	Extra over for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	16.02	
092050	Laying 15 mm thick hardened topping on concrete surface with 1 part metallic floor hardener, 4 parts cement and 9 parts by weight hard stone chips of size 6 mm mixed and laid as per specifications	Sqm	215.94	
092060	Providing and laying plain cement concrete flooring of specified thickness with mix design concrete over firm, well prepared and well compacted bed including provision of designed expansion joint & finishing manually or mechanical trowel ling & vacuum dewatering complete. Expansion joint to be paid for separately.			
092061	M-20	cum	2394.37	3.440
092062	M-25	cum	2394.37	3.990
092063	M-30	cum	2394.37	4.070
	<b>TERRAZO FLOORING :</b>			
093010	Providing top layer of floor, 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1mm to 4mm nominal size laid in cement marble powder mix 3:1 (3cement: 1marble powder) by weight in proportion of 4:7 (4cement marble powder mix: 7marble chips) by volume including cement slurry etc. complete			
093011	With ordinary cement without any pigment	Sqm	198.07	0.041
093012	With ordinary cement with pigment	Sqm	214.56	0.041
093013	With white cement with pigment	Sqm	278.85	
093020	Providing top layer of floor, 9mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes - 4mm to 7mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1marble powder) by weight in proportion of 4:7 (4 cement marble powder: 7marble chips) by volume including cement slurry etc. complete			
093021	With ordinary cement without any pigment	Sqm	196.30	0.058

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
093022	With ordinary cement with pigment	Sqm	219.82	0.058
093023	With white cement with pigment	Sqm	311.56	
093030	Marble chips skirting (upto 30cm height) rubbed & polished to granolithic finish, top layer 6mm thick of marble chips - white / black / chocolate / grey / yellow / green of sizes - smallest to 4mm laid in cement marble powder mix 3:1 (3 cement:1marble powder) by weight in ratio of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :			
093031	18mm thick with under layer 12mm thick cement plaster 1:3 (1cement: 3coarse sand). with ordinary cement	Sqm	355.67	0.129
093032	18mm thick with under layer 12mm thick cement plaster 1:3 (1cement: 3coarse sand). with ordinary cement and pigment	Sqm	372.16	0.129
093033	18mm thick with under layer 12mm thick cement plaster 1:3 (1cement: 3coarse sand). with white cement and pigment	Sqm	436.45	0.089
093034	21mm thick with under layer 12mm thick cement plaster 1:3 (1cement: 3coarse sand). with ordinary cement	Sqm	371.36	0.147
093035	21mm thick with under layer 12mm thick cement plaster 1:3 (1cement: 3coarse sand). with ordinary cement and pigment	Sqm	396.10	0.147
093036	21mm thick with under layer 12mm thick cement plaster 1:3 (1cement: 3coarse sand). with white cement and pigment	Sqm	492.54	0.089
093040	Extra for laying terrazzo in narrow bands not exceeding 7.5cm in width	metre	1.23	
093050	Extra for terrazzo flooring laid as floor borders, margins and similar bands exceeding 7.5cm but not exceeding 30cm in width	Sqm	11.65	
093060	Extra for laying terrazzo flooring on staircases treads not exceeding 30cm in width including cost of forming, nosing etc.	Sqm	17.48	
093070	Extra for making moulded nosing in terrazzo including returned moulded ends and angles to	metre	54.88	
093080	Crazy marble stone flooring including filling the gaps with light shade pigment with white cement marble powder mixture (3parts of white cement: 1 part of marble powder) by weight in proportion of 4:7 (4cement marble powder mix: 7white, black or white and black marble chips of sizes from 1mm to 4mm nominal size by volume) including rubbing, polishing and cement slurry etc. complete - 18mm thick crazy marble stone white, black or as specified	Sqm	629.32	
	<b>TERRAZO TILES</b>			

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
094010	Providing and laying precast factory made terrazzo tiles 22mm thick with graded marble chips of size upto 12mm laid in floors and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1cement: 4coarse sand)			
094011	With ordinary cement without any pigment	Sqm	496.93	0.094
094012	With ordinary cement with pigment	Sqm	531.31	0.094
094013	With white cement with pigment	Sqm	540.77	
094020	Extra if terrazzo tiles are laid in treads of steps not exceeding 30cm in width	Sqm	22.39	
094030	Precast factory made terrazzo tiles 22mm thick with graded marble chips of size upto 12mm in walls, skirting and risers of steps on 12mm thick cement plaster 1:3 (1cement: 3coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles including cutting/wastage of tiles, rubbing and polishing complete with tiles made :			
094031	With ordinary cement without any pigment	Sqm	445.67	0.139
094032	With ordinary cement with pigment	Sqm	480.05	0.139
094033	With white cement with pigment	Sqm	524.42	
094040	Precast Chequered factory made terrazzo tiles 22mm thick/ with graded marble chips size upto 6mm in floors jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing of cement slurry complete on 20mm thick bed of cement mortar 1:4 (1cement : 4Coarse sand)			
094041	With ordinary cement without any pigment	Sqm	520.95	0.094
094042	With ordinary cement with pigment	Sqm	555.33	0.094
094043	With white cement with pigment	Sqm	612.32	
094050	Precast Chequered factory made terrazzo tiles 30mm thick with graded marble chips of sizes upto 12mm in stairs treads jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing, rounding of nosing etc. complete on 20mm thick bed of cement mortar 1:4 (1cement:Coarse sand)-			
094051	With ordinary cement without any pigment	Sqm	554.33	0.094
094052	With ordinary cement with pigment	Sqm	644.61	0.094
094053	With white cement with pigment	Sqm	710.93	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
094060	Providing & fixing Precast Chequered tiles conforming to IS:13801:1993, manufactured under mechanical vibration & hydraulic pressing machine in double layer; top layer of 10 to 12 mm thickness of Dolomite Powder, graded chips, fibre and UV stabilised iron oxide Lanexess colour and bottom layer of 1:3 CC mixed with galvanised steel fibre of approved quality, jointed with neat cement slurry mixed with pigment to match shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 of sizes :			
094061	250mm x 250mm x 25mm thick	Sqm	440.52	0.094
094062	300mm x 300mm x 30mm thick	Sqm	549.12	0.094
094063	400mm x 400mm x 35mm thick	Sqm	644.94	0.094
094070	Providing and fixing 10mm thick heavy duty acid and/or alkali resistant factory made tiles conforming to Group V-RD series of approved make and colour using acid and/or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS: 4457 complete including cost of acid/alkali resistant cement			
094071	In flooring on a bed of 10mm thick mortar 1:4 (1 Appropriate cement : 4 coarse sand)	Sqm	931.26	0.047
094072	In dado/skirting on 12mm thick mortar 1:4 (1 Appropriate cement : 4 coarse sand)	Sqm	1000.05	0.050
094080	Tile work in skirting, risers of steps and dado (upto 2m height) over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) and jointed with grey cement slurry @ 3.3kg/ Sqm including pointing in white cement mixed with pigment of matching shade complete with - Marble tiles (polished) Raj Nagar 8mm thick	Sqm	734.87	0.104
	<b>CERAMIC TILES :</b>			
095010	Providing and fixing Ist quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete			
095011	200x200 mm	Sqm	580.19	0.124
095012	200x300 mm	Sqm	580.16	0.124
095013	300x450 mm and above	Sqm	645.67	0.124

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
095020	Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete			
095021	Of Group B-II Clause 5.1 (for abrasion resistance) of IS:15622 (Ceramic Floor Tiles) of size 300x300mm	Sqm	512.30	0.124
095022	Of Group B-II Clause 5.1 (for abrasion resistance) of IS:15622 (Ceramic Floor Tiles) of size 400x400mm and above	Sqm	518.25	0.124
095023	Of Group B-I-b of IS : 15622 (Ceramic Tiles) of size 200x200mm to 400x400mm	Sqm	645.64	0.124
095024	Of Group B-I-b of IS : 15622 (Ceramic Tiles) of size above 400x400mm	Sqm	829.78	0.124
095025	Of Group B-I-a of IS : 15622 (Vitrified tiles) of size upto 400x400 mm	Sqm	839.70	0.124
095026	Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm	Sqm	917.07	0.124
095027	Of Group B-I-a of IS : 15622 (Vitrified tiles) of size 800x800mm and above	Sqm	1036.30	0.124
095030	Extra over items 095025 and 095026, if adhesive (recommended by manufacturer of tiles) of specified thickness is used instead of cement mortar	Sqm	40.15	
095040	Extra over basic items for using rectified tiles when specifically ordered	Sqm	73.81	
095050	Providing and fixing in floors 'rounded cove nosing' External & Interior Media ceramic tile of size 10cm x 30cm having thickness not less than 8mm of colour and shade, as approved by Engineer-in-charge over 12mm thick cement mortar 1:3; complete work including filling of joints with white or pigmented cement	Each	220.13	
	<b>MARBLE &amp; KOTA STONE FLOORING</b>			
096010	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer-in-Charge) over 20mm (average) thick base of cement mortar 1:4 (1cement: 4coarse sand) laid and jointed with grey/white cement slurry, including pigment if required, including rubbing and polishing complete with :			
096011	Makrana White quality marble	Sqm	1130.55	0.087
096012	Rajnagar plain/Black Zebra/Udaipur green marble / Pink plain marble	Sqm	1133.22	0.087
096013	Agaria White	Sqm	1894.58	0.087
096020	Extra for nosing in marble stone for treads, sills etc.	Sqm	138.14	
096030	Extra for making grooves up to 5 mm deep in marble stone for tread, sills etc. of width			
096031	3mm to below 6 mm	Sqm	78.37	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
096032	6 mm & above	Sqm	93.55	
096040	Extra for marble stone flooring in treads of steps, not exceeding 30cm in width	Sqm	159.99	
096050	Rubbing/polishing of old floors,Terrazzo or mosaic/Marble/ skirting and dado including treads and risers of steps of terrazzo/terrazzo tiles plain or chequered, kota stone, marble tiles etc. with fine grade carborandum stone with machine or manually complete	Sqm	39.14	
096060	Kota stone slab flooring of size up to 30x30cm over 20mm (average) thick base of 1:4 cement mortar (1cement: 4coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete			
096061	20 mm thick	Sqm	881.99	0.149
096062	25mm thick	Sqm	1008.55	0.149
096063	30mm thick	Sqm	975.94	0.150
096064	40mm thick	Sqm	1198.31	0.150
096070	Kota stone slab flooring of size up to 60x60cm over 20mm (average) thick base of 1:4 cement mortar (1cement: 4coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete			
096071	20mm thick	Sqm	917.05	0.149
096072	25mm thick	Sqm	962.13	0.149
096073	30mm thick	Sqm	1031.71	0.150
096074	40mm thick	Sqm	1263.43	0.150
096080	Kota stone slabs 25mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1cement: 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete :	Sqm	897.92	0.137
096090	Extra for nosing in steps and treads of kota stone slab.	Sqm	131.02	
096100	Extra for making grooves up to 5 mm deep in Kota stone for tread, sills etc. of width			
096101	3mm to below 6 mm	Sqm	75.43	
096102	6 mm & above	Sqm	90.61	
096110	Extra for kota stone flooring in steps and treads not exceeding 30cm in width	Sqm	153.05	
096120	Providing flag stone (Neemuch, Shahabad, Kota, etc) flooring unpolished over 20mm (average) thick 1:4 cement mortar (1cement:4coarse sand) base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab complete including cement sand pointing 1:2 with pigment and cleaning etc complete			

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
096121	25mm thick stones	Sqm	781.27	0.149
096122	40mm thick stones	Sqm	889.16	0.152
	<b>SAND STONE FLOORING :</b>			
097010	40mm thick rough chisel dressed stone flooring over 20mm (average) thick base of cement mortar 1:4 (1cement: 4coarse sand) with joints finished flush with 1:2 cement sand mortar			
097011	Red sand stone	Sqm	319.62	0.095
097012	White sand stone	Sqm	357.95	0.095
097020	40mm thick fine dressed stone flooring over 20mm (average) thick base of cement mortar 1:4 (1cement: 4coarse sand)including pointing with cement mortar 1:2 (1cement: 2stone dust) with an admixture of pigment to match the shade of stone			
097021	Red sand stone	Sqm	412.54	0.100
097022	White sand stone	Sqm	450.87	0.100
097030	40mm thick fine dressed and rubbed stone flooring over 20mm (average) thick base of cement mortar 1:4 (1cement: 4coarse sand) with joints 5mm thick, including pointing with cement mortar 1:2 (1cement: 2stone dust) with an admixture of pigment to match the shade of stone			
097031	Red sand stone	Sqm	483.60	0.100
097032	White sand stone	Sqm	521.93	0.100
097040	Extra over Items for nosing in steps and treads of sand stone	metre	36.35	
097050	Extra over sandstone flooring in steps and treads not exceeding 30cm in width	Sqm	6.02	
	<b>MISCELLANEOUS FLOORING</b>			
098010	Providing and laying stone setts flooring with stone(Of igneous Origin) setts 15 cm thick laid flat over 15 cm thick bed of sand (Ordinary)			
098011	With joints thoroughly filled with ordinary sand	Sqm	327.66	
098012	With joints filled thoroughly with 1:6 mix (by weight) of bitumen and ordinary sand	Sqm	669.14	
098020	Supplying and laying interlocking pre-cast CC block pavers of approved design factory manufactured of specified grade cement concrete on passenger platform, foot paths, circulating area, etc, including setting in position over 25mm thick bedding layer of fine sand, filling the joints with fine sand, leveling including compaction as per IS 15658			
098021	60 mm thick blocks of M30 grade for light traffic	Sqm	478.28	
098022	80mm thick blocks of M35 grade for medium traffic	Sqm	702.23	
098023	120mm thick blocks of M40 grade for heavy traffic	Sqm	967.31	
098024	High quality blocks for pedestrian pathways 35mm thick of M40 grade	Sqm	546.84	
098030	Extra over items for using plastic moulds if specifically ordered	Sqm	59.57	



Item No.	Description	Unit	Rate (Rs.)	Cement Qty. (qtl.)
098040	Extra over items for lacquer finish	Sqm	73.79	
098050	Extra over Item 098010 for addition of pigment in concrete of paver blocks	Sqm	25.14	
098060	Providing and fixing homogeneous polyvinyl chloride sheet/ tile in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesives of approved quality and manufacturer like Dunlop S- 758, Fevicol SR 998 or equivalent including rolling with light wooden roller weighing about 5kg. all complete as directed by the Engineer-in-Charge, in approved colour and shade			
098061	1.5mm thick. Sheet	Sqm	430.32	
098062	1.5mm thick. Tile	Sqm	456.07	
098063	2.0mm thick sheet	Sqm	483.98	
098064	2.0mm thick tile	Sqm	594.30	
098070	Providing and fixing rubber floor tiles with approved rubber adhesive as per manufacturers specification on the existing floor complete in all respect in all colour and shades :			
098071	Plain rubber tiles conforming to IS: 809 1.5mm thick	Sqm	864.64	
098072	Plain rubber tiles conforming to IS: 809 2.0mm thick	Sqm	972.09	
098073	LP stud range conforming to IS: 809 size 610x610mm, 2.0mm thick	Sqm	921.03	
098074	LP stud range conforming to IS: 809 size 610x610mm, 3.0mm thick	Sqm	1390.57	
098075	LP stud range conforming to IS: 809 size 610x610mm, 4.0mm thick	Sqm	1802.18	
098076	Anti-static rubber tiles plain / stud (conforming to BS: 2050 size 610x610mm, 2.0mm thick (Black only)	Sqm	1545.05	
098080	Providing and laying vitrified ceramic paver tiles conforming to Group B-II, Clause 5.1 (for abrasion resistance) of IS : 15622 of manufacturers approved by railway in all colours, shades and design as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement : 4 coarse sand) including pointing with polymer based grout of matching shade complete of size :			
098081	100x100x15mm	Sqm	1068.87	0.094
098082	200x200x15mm	Sqm	988.51	0.094
098083	300x300x15mm	Sqm	1048.04	0.094
098084	Deduct for using 12mm thick tile instead of 15mm thick	Sqm	133.57	
098090	Laying 80 mm thick oversized stone ballast 75 mm to 100 mm gauge in soling of floors, hand packed including hand packing, filling voids with sand and watering, ramming and leveling	Sqm	133.66	
098100	Providing and fixing aluminium strips 40mm deep and 2mm thick in joint of terrazzo floor	metre	70.64	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
098110	Providing and fixing glass strips in joints of terrazzo / cement concrete floors			
098111	40mm deep and 4mm thick	metre	24.38	
098112	40mm deep and 6mm thick	metre	27.51	
	<b>MARBLE WORK</b>			
099010	Marble work (table rubbed and polished) for wall lining (veneer work), dado, skirting etc over 12mm thick cement mortar 1:3 (1cement: 3coarse sand) including pointing with white cement mortar 1:2 (1white cement: 2marble dust) with an admixture of pigment to match the marble shade. (To be secured to the backing by means of cramps, which shall be paid for separately) White Marble – Raj Nagar Plain, 18mm thick			
099011	Area of slab 0.10 Sqm to 0.2 Sqm	Sqm	1855.34	0.067
099012	Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	1906.36	0.067
099013	Area of slab over 0.5 Sqm	Sqm	1918.49	0.067
099020	Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc. complete at all levels. Abu plain white marble/Rajnagar plain white marble/ Udaipur Green Marble/ Zebra Black Marble			
099021	Area of each slab upto 0.10 Sqm	Sqm	1174.34	0.087
099022	Area of each slab over 0.10 Sqm but upto 0.20 Sqm	Sqm	1262.98	0.087
099023	Area of slab each over 0.20 Sqm but upto 0.50 Sqm Abu plain white marble	Sqm	1271.85	0.087
099024	Area of each slab over 0.50 Sqm but upto 1.0 Sqm	Sqm	1380.09	0.087
099025	Area of each slab over 1.0 Sqm	Sqm	1425.50	0.087
099030	Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels			
099031	Granite Black. Area of slab upto 0.10 Sqm	Sqm	2285.49	0.087
099032	Granite Black. Area of slab 0.10 Sqm to 0.2 Sqm	Sqm	2380.48	0.087
099033	Granite Black. Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	2507.10	0.087
099034	Granite Black. Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm	2650.11	0.087

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
099035	Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	3080.05	0.087
099040	Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc .complete at all levels			
099041	Granite Pink/Grey. Area of slab upto 0.10 Sqm	Sqm	1895.23	0.057
099042	Granite Pink/Grey. Area of slab 0.10 Sqm to 0.2 Sqm	Sqm	1896.71	0.057
099043	Granite Pink. Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	2446.13	0.057
099044	Granite Pink. Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm	2618.41	0.057
099045	Granite Pink. Area of slab over 1.0 Sqm but upto 2.0 Sqm Or larger	Sqm	2705.44	0.057
099050	Providing and fixing 40mm thick Cuddapah stone polished, machine cut for kitchen platforms, vanity counters facias, dados and skirting and similar locations of required size, laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups including rubbing, curing etc. complete at all levels			
099051	Area of slab upto 0.5 Sqm	Sqm	1372.90	0.087
099052	Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm	1859.22	0.087
099053	Area of slab over 1.0 Sqm but upto 2.0 Sqm or	Sqm	1852.35	0.087
099060	Extra for providing edge moulding to 16mm to 20mm thick marble/granite stone counters, vanities etc including machine polishing to edge to give high gloss finish etc. complete as per design approved by the Engineer-in-Charge			
099061	Marble work	mete	122.13	
099062	Granite work	metre	155.70	
099063	Cuddapah stone	metre	138.97	
099070	Extra for cutting groove upto 5mm wide and 6mm deep for drip course			
099071	In Marble work	Sqm	78.37	
099072	In Granite work	Sqm	134.41	
099073	In Cuddapah stone	Sqm	119.01	
099080	Polished stone tile work for wall lining (dado) over 12mm thick bed of cement mortar 1:3, including pointing in white cement with an admixture of pigment to match the stone shade with tiles of all size upto 300 x 300 mm			
099081	8 mm thick pink/grey granite tiles	Sqm	1296.92	0.067

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
099082	8mm thick superior quality black granite tiles	Sqm	1227.88	0.067
099083	8mm thick superior quality (RUBY Red) granite tiles	Sqm	1241.24	0.067
099084	8mm thick marble tiles	Sqm	939.69	0.067
099090	Extra for fixing marble/granite stone over facia and drops of width upto 150mm with epoxy resin based adhesive (Araldite or equivalent) including cleaning etc. complete	metre	117.09	
099100	Extra for providing opening of required size and shape for wash basins/ kitchen sink / Pillar tap etc in kitchen platform, vanity counters and similar location in marble / stone work. including rubbing and polishing of cut edges etc complete. No deduction for opening area shall be made from			
099101	Opening of area upto 100 sq cm	Each Opening	105.97	
099102	Opening of area above 100 sq cm	Each Opening	335.34	
099110	Providing and fixing cramps of required size and shape in RCC/ CC backing with cement mortar 1:2 (1cement: 2 fine sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately)			
099111	Gunmetal cramps	Kg	454.08	0.007
099112	Stainless steel cramps	Kg	521.82	0.007
099120	Providing and fixing expansion hold fasteners on CC / R.C.C. surface backing including drilling necessary holes and the cost of bolts etc. complete			
099121	Wedge expansion type. Fastener with threaded dia 1/4 Inch or 6mm	Each	26.06	
099122	Wedge expansion type. Fastener with threaded dia 3/8 inch or 10mm	Each	27.87	
099123	Wedge expansion type. Fastener with threaded dia 1/2 Inch or 12mm	Each	38.50	
099130	Providing and fixing copper pins 7.5cm long of 6mm diameter in cement mortar 1:2 (1cement: 2 fine sand) including making necessary chases	Each	17.85	0.007
099140	Providing and fixing stone dowel 10x5x2.5cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 fine sand) including making necessary chases	Each	17.36	0.007
099150	Extra for provision of motif tiles on walls over item 095010	Sqm	290.10	
099160	Providing and fixing 18mm thick mirror polished, machine cut for floors and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing etc. complete at all levels			
099161	Granite Black. Area of slab upto 0.10 Sqm	Sqm	2124.67	0.087
099162	Granite Black. Area of slab 0.10 Sqm to 0.2 Sqm	Sqm	2219.74	0.087

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
099163	Granite Black. Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	2350.99	0.087
099164	Granite Black. Area of slab over 0.5 Sqm but upto 1.0 Sqm	sqm	2491.29	0.087
099165	Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	2925.02	0.087
099170	Providing and fixing 18mm thick mirror polished, machine cut for floors and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing etc. complete at all levels			
099171	Granite Pink/Grey. Area of slab upto 0.10 Sqm	Sqm	1734.41	0.087
099172	Granite Pink/Grey. Area of slab 0.10 Sqm to 0.2 Sqm	Sqm	1735.98	0.087
099173	Granite Pink. Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	2290.01	0.087
099174	Granite Pink. Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm	2459.58	0.087
099175	Granite Pink. Area of slab over 1.0 Sqm but upto 2.0 Sqm Or larger	Sqm	2550.41	0.087
099180	Providing and fixing 25mm thick flame cut/machine cut for floors /stairs and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing etc. complete at all levels			
099181	Granite Pink/Grey - Area of slab upto 0.10 Sqm	Sqm	2405.17	0.087
099182	Granite Pink/Grey - Area of slab 0.10 Sqm to 0.2 Sqm	Sqm	2626.27	0.087
099183	Granite Pink - Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	3137.62	0.087
099184	Granite Pink - Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm	3407.80	0.087
099185	Granite Pink - Area of slab over 1.0 Sqm but upto 2.0 Sqm Or larger	Sqm	3435.21	0.087
099186	Extra for providing 40mm thick flame cut granite in lieu of 25 mm from item 099181 to 099185	Sqm	20% of respective items	
099190	Providing and fixing 40mm thick Cuddapah stone polished, machine cut for floors and similar locations of required size, laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups including rubbing, curing etc. complete at all levels			
099191	Area of slab upto 0.5 Sqm	Sqm	1213.70	0.087
099192	Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm	1700.39	0.087

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
099193	Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	1697.31	0.087
099200	Supplying and applying surface hardener for concrete floors ready to use, specially graded, non metallic and mineral aggregate dry shake surface hardener free from oil and grease to be sprinkled at 9 kg/sqm of surface area. Complete with finishing	sqm	247.15	
099210	Providing and fixing 10mm ( $\pm$ 0.2mm) thick heavy duty, full-body homogeneous, anti-algal, all weather resistant, exterior use Paving vitrified tiles of size upto 400mmx400mm in approved shade, colour & quality, having anti-skid matt finish surface with plain or projected texture. Tiles to be laid on 20 mm average thick cement mortar bed of 1:4 (1 cement : 4 coarse sand) with all labour, material complete job	Sqm	915.22	0.087
099220	Providing and fixing 50 mm thick (size 300mmx300mm) M 30 grade precast concrete studded tiles in approved colour manufactured by Vibro Compaction process using jointless FRP moulds to achieve smooth joint finish. Tiles to be laid on 20 mm average thick cement mortar base of 1:4 (1 cement : 4 coarse sand) with all labour, material and transportation etc. as a complete job	Sqm	911.02	0.087
099230	Providing and fixing Group-25 Rectified Tiles of 10 mm $\pm$ 0.5 mm thickness of sizes upto 605 mm x 605 mm on floors having skid free, smooth surface of any colour, shade and design as approved by Engineer Incharge having abrasion resistance of 25000 revolutions as per the PEI methodology; laid over 20 mm thick cement mortar of 1:4 (1 cement : 4 coarse sand) and joints filled with matching grouting material; complete work	Sqm	692.07	0.087
099240	Providing & fixing Paving Slabs (Flag Stone) 400mm x 400mm x 80mm thick, manufactured with wet press vacuum dewatered technology with pimple finish on top, having 5mm chamfer edges in approved colour and crushing strength of 50 N/sq.mm to be fixed on uniform bedding of 50mm thick fine sand and joints duly filled with sand	Sqm	1457.08	
099250	Providing & fixing 400x400x35mm thick reflective lacquer coated cement designer tiles, manufactured in wet cast vibration system in two layers, 10-12mm thick top layer consisting of graded stone aggregates, silica sand, Bayer colour. Surface of tiles with anti-skid texture with lacquer coating with flexural strength of 4 N/sq.mm, to be fixed on 20mm thick 1:4 cement mortar, as directed by engineer-in-charge	Sqm	666.28	0.094
	<b>New Items To Be Added By Zonal Railway</b>			
099310				
099320				