

**Civil Works : Schedule "A"
Schedule No 6 : Flooring Work**

Name of Work : Construction of Staff Residences on Plot Nos 53 / 11 to 53 / 14, Rajendra Nagar, New Delhi - 110 060

Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
		Flooring Work				
1	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
1.1	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	10		
2	11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.				
2.1	11.6.1	18 mm thick	Sqm	4		
3	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
3.1	11.26.1	25 mm thick	Sqm	40		
4	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	35		

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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
5	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	metre	145		
6	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	100		
7	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness 8-10 mm) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with Tile adhesive, tile adhesive conforming to IS 15477, including pointing the joints with white cement and matching pigment etc.,complete.	Sqm	90		
8	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	1050		
9	11.38	Providing and laying Ceramic glazed floor tiles of size 300 x 300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete.	Sqm	100		

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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
10	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300 x 300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	Sqm	40		
11	11.40	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.	Sqm	20		
12	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
12.1	11.41A.2	Glazed vitrified floor tiles polished finish of size				

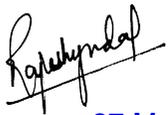
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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
12.2	11.41A.2.1	Size of Tile 600 x 600 mm	Sqm	450		
12.3	11.41A.3	Glazed vitrified floor tiles Matt / Antiskid finish of size				
12.4	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	450		
13	11.42	Add / Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3 kg/ sqm.	Sqm	50		
14	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	Sqm	100		
15	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
15.1	11.46.2	Size of Tile 600x600 mm	Sqm	70		



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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
16	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
16.1	11.47.2	Size of Tile 600x600 mm	Sqm	70		
17	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				
17.1	11.48.2	Size of Tile 600x600 mm	Sqm	110		
18	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
18.1	11.49.2	Size of Tile 600x600 mm	Sqm	90		


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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
19	11.50	Add / Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	Sqm	90		
20	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
20.1	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent	Sqm	40		
21	Non DSR Item (Modified from 11.37A)	Providing and fixing Water Proof Commercial Single Colour light shade ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados in shafts and behind wardrobe / cupboard over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	425		



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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
22	Non DSR Item (Modified from item No 11.49)	Providing and laying Vitrified tiles in floor as in Parking floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
22.2	Non DSR Item	Size of Tile 300x300 mm thickness 16 mm	Sqm	150		
22.3	Non DSR Item	Size of Tile 400x400 mm thickness 16 mm	Sqm	150		
23	Non DSR Item (Modified from item No 11.49)	Providing and laying Vitrified tiles in skirting as in Parking floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
23.1	Non DSR Item	Size of Tile 300x300 mm thickness 16 mm	Sqm	4		
23.2	Non DSR Item	Size of Tile 400x400 mm thickness 16 mm	Sqm	4		

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Ser No	DSR Item	Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
24	Non DSR Item (Modified from Item No 11.46)	Providing and laying Vitrified tiles in different sizes (thickness 16 mm), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
24.1		Size of Tile 300x300 mm	Sqm	2		
24.2		Size of Tile 400x400 mm	Sqm	2		
		Total :: Schedule "A" : Schedule No 6 : Flooring Work (Rs)				



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Civil Works : Schedule "A"
Schedule No 7 : Water Proofing Work

Name of Work : Construction of Staff Residences on Plot Nos 53 / 11 to 53 / 14, Rajendra Nagar, New Delhi - 110 060

Ser No	DSR Item No	Description of Item	A/U	Quantity	Rate (Rs)	Amount (Rs)
1	22.5	<p>Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :</p> <p>(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</p> <p>(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.</p> <p>The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.</p>	Sqm	160		
		OR				



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Schedule "A" :
Schedule No 7 :
Water Proofing Work

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Ser No	DSR Item No	Description of Item	A/U	Quantity	Rate (Rs)	Amount (Rs)
2	Non DSR Item	<p>Providing and laying water proofing treatment in WCs, bathroom, Kitchens, Pantry & Balconies etc., shall be of 3 layer of Tapecrete (P-151) with Glass Fibre mesh, extending upto 300mm above slab level on walls so as to make jointless covering by applying cement slurry mixed with Tapecrete by application as :</p> <p>(a) Surface Preparation. The surface shall be cleaned to remove all dust, foreign matters, loose materials or any deposits of contamination which could affect the bond between the surface and the CICO TAPECRETE P-151 coating. This shall be done by scarifying, grinding, water blasting, sand blasting, and acid washing or by any other approved method. New flat surface like sub-base concrete shall be made reasonably smooth so as not to impede the application of CICO TAPECRETE P-151 coating and to avoid sharp projections. All concrete surfaces shall be thoroughly pre-wetted prior to the application of CICO TAPECRETE P-151 coating by pouring water on flat surface or by spraying water on vertical/inclined surfaces. When placing CICO TAPECRETE P-151 coating, water shall be removed so that surface is only damp. In no case there should be standing water. Depressions are to be filled and levelled using CICO TAPECRETE P-151 fillers. For filler, the mixing ratio is 1 kg cement: 1.5 kg silica sand: 0.50 kg of CICO TAPECRETE P-151.</p> <p>(b) First Layer. CICO TAPECRETE P-151 polymer is mixed with neat fresh cement in the ratio of 1:2 by weight. The mix has to be stirred thoroughly until smooth homogeneous slurry is obtained. Wait for 5-10 minutes to release entrapped air bubbles. Any lump found in the mix should be removed or mixed thoroughly. The mix has to be applied by brush on rendered and/or prepared surface. First coat should be allowed to air dry for 4 hours prior to apply subsequent coat.</p> <p>(c) Second Layer. Second layer of Glass Fibre Mesh shall be laid on first layer while the first layer is still tacky. Overlap of at least 150 mm shall be ensured over joints.</p>				
		<p>(d) Third Layer. Over the second layer i.e. over the Galss fibre mesh, second and third layer, each layer similar to first layer, shall be laid. Each layer shall be allowed to air cure for 4 hours followed with water curing for 48 hours.</p> <p>(e) After application of final coat of CICO TAPECRETE P-151, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours after the final application, moist curing shall be done for the next 24 hours by spraying/sprinkling of potable water on CICO TAPECRETE P-151 COATING. During this period at no point of time should the CICO TAPECRETE P-151 coating be left completely dry or submerged in water. Following moist curing, the CICO TAPECRETE P-151 coating shall be allowed to air dry for 2 days before submersion in water.</p>				

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Schedule No 7 :
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Ser No	DSR Item No	Description of Item	A/U	Quantity	Rate (Rs)	Amount (Rs)
		<p>(f) Covering capacity and coating for layers is as follows:-</p> <p>One Coat : Cement (0.5) Kg / m2 : Tapecrete 0.250 Kg/m2 Two Coat : Cement (0.75) Kg / m2 : Tapecrete 0.375 Kg/m2 Three Coat : Cement (1.0) Kg / m2 : Tapecrete 0.500 Kg/m2</p> <p>(g) The water proofed treated area so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p> <p>The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.</p>	Sqm	160		
3	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, terraces etc consisting of following operations:				
		Stage - 1 : Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.				
		Stage -2 : Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.				
		Stage - 3 : After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.				
		Stage - 4 : Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.				
		Stage - 5 : The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	350		

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Ser No	DSR Item No	Description of Item	A/U	Quantity	Rate (Rs)	Amount (Rs)
4	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
4.1	12.22.1	In 75x75 mm deep chase metre	Meter	140		
5	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	16		
6	Non DSR Item (Modified from Item No 26.38)	Shotcreting R.C.C. columns, RCC walls, beams, floor slab and slabs etc. in layers with approved design mix concrete with water proofing compound liquid type as per manufacturer's instructions, including anchoring and fixing of welded wire mesh fabric of 8 gauge thickness 3.4 mm aperture (opening) size 100mm x 100mm with nominal mass not less than 1.430 Kgs per m2, to achieve the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria], applied under high pressure.				
6.1	Non DSR Item (Modified from Item No 26.38)	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	850		
		Total :: Schedule "A" : Schedule No 7 : Water Prrroging Work (Rs)				


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