

**SUMMARY OF BOQ FOR TERRACE WORK AT INS RAFI MARG NEW DELHI (from
GF to Terrace)**

1	TERRACE WORK	
2	TERRACE DISMANTELING WORK	
	TOTAL	

BOQ FOR DISMANTLING WORK OF TERRACE AT INS BUILDING, RAFI MARG NEW DELHI

S.NO	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	CEMENT CONCRETE				
	Demolishing c.c in terracing and disposal of material within Ground floor lvl	CUM	145		
2	GOLA				
	Demolishing cement concrete manually/ by mechanical				
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	CUM	1.5		
3	KHURRAS				
	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 I 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	12		
4	RAIN WATER PIPE/C.1. PIPE				
	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material at ground level				
	100m dia pipe	MTR.	20		
5	OLD PLASTER / DISMANTLING				
	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping at ground level	SQM	310		
6	RCC DEMOLISHING				
	Demolishing .R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	CUM	15		
7	G.I. PIPE •				

	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes. manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-incharge :				
	15 min to 40 mm nominal bore	MTR.	30		
	Above 40 mm nominal bore	MTR.	70		
8	WOODEN DOOR INCLUDING CHOWKHAT				
	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats. architrave. holdfasts etc. complete and stacking at ground level				
	Of area 3 sq. metres and below	Each	1		
9	Dismantling of existing water proofing membrane from the terrace including removing base in cement mortar and disposal of material to G. level	SQM	1600		
	TOTAL AMOUNT				

BOQ FOR TERRACE WORK AT INS BUILDING, RAFI MARG NEW DELHI

S.No	DISCRIPTION	UNIT	QTY	RATE	AMOUNT
	TERRACE WORK ITEMS				
1	BRICK COBA				
	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) 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. b) 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 Engineer-in-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 Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed jointless cement mortar of mix I: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. e) 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 Engineerin-Charge :				
a	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	SQM	40		
2	GOLA				
	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 :				
	In 75x75 mm deep chase	MTR	238		
3	KURRAS				
	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	12		

4	RAIN WATER PIPE				
	Providing and fixing on wall three unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
	110 mm diameter	MTR	20		
5	REPAIRING OF OLD PLASTER				
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :				
	With cement mortar 1:4 (1 cement : 4 fine sand)	SQM	150		
6	NEW PLASTER OUTSIDE / INSIDE				
	15 mm cement plaster on rough side of single or half brick wall of mix :				
	1:4 (1 cement: 4 coarse sand)	SQM	150		
7	REINFORCEMENT (CHHAJJA)				
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Thermo-Mechanically Treated bars	KG	2000		
8	DESIGN MIX CONCRETE				
	Providing and laying in position machine batched and machine mixed design mix M 25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability Without impairing strength and durability as per direction of Engineer-in-charge.				
	All works above plinth level upto floor V level	CUM	5		
9	FORM WORK				
A	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12 mm thick	SQM	23		

B	Lintels, beams, plinth beams, girders, bressumers and cantilevers. With water proof ply 12 mm thick	SQM	5		
10	9" BRICK WORK (NEW PARAPET WALL)				
	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM	2.5		
11	HALF BRICK WORK				
	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V Level.				
	Cement mortar 1:3 (1 cement : 3 coarse sand) .	SQM	14		
a	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	14		
12	MICRO- CONCRETE				
	Providing and laying micro-concrete cement based pre-packed single component, chloride free, sulphate free, non shrink, free flow, self compacting, ready to use after mixing water in specified proportion of approved quality. Rate shall be included with new plywood shuttering board cost and supporting jack system/prop to support the shuttering plate. shuttering plate will be used in patch repair job so shuttering item will be included in this application of high strength, dual-shrinkage compensated, micro-concrete for placing in nominal thickness of 25mm to 200mm for concrete repair with compressive strength (ASTM C109.7 cm cube) of 25 MPa at 28 Days (including shuttering work)	CUM	3		
13	POP				
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	SQM	50		
14	PAINT				

A	Providing & applying of exterior grade paint on walls paint of make Asian-Apex or approved equivalent of required shade. This includes cleaning and necessary preparation by scrapping, wire brushing etc to remove the algae, blisters, dirt and loose materials, flakes etc. complete as directed. Old work Two or more coats to give an even shade over existing rough cast plaster surface	SQM	310		
B	Providing and applying Plastic emulsion paint of approved make and shade on walls including scrapping off, preparing the base & applying 3 or more coats of approved make, color and shade to give an even and smooth surface on new work including necessary scabbling, coat of cement primer etc. all complete as per direction of Architect.	SQM	50		
C	Providing & applying Synthetic Enamel Paint of approved make, color and shade and make on the M.S.grills, railings, doors. windows, gates at all heights all complete including preparation of base, applying 2 or more coats of Synthetic Enamel paint to give an even and smooth finish including scabbling etc. complete as directed by Architect.	SQM	100		
15	TERRACE HEAT RESISTANCE TILE				
	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete. including providing skirting upto 150 mm height along the parapet walls in the same manner.	SQM	978		
16	WOODEN FRAME WORK				
	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	Second class teak wood	CUM	0.03		

17	DOOR SHUTTER				
	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	SQM	1.70		
18	WATER TANK				
	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS1 : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes with fittings and the base support (paid separately) for tank.5000 litres circular Tank.	Nos	6		
19	Providing and laying water proofing treatmate to roof surface. Two layers of APP polymeme polythene membrane. And as per manufactures specification.	SQM	1200		
20	1:2:4 GRADE CONCRETE				
	1:2:4 Grade concrete for all heights (till 6 th floor) laid to slope as per design. And as direction and in pachs.	CUM	100		
21	Washed stone grit plaster on exterior walls above level in two layers, under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer@2kg. Of cement per sq. mtr. top layer 15mm cement plaster 1:1.5:2 (1 cement :1.5 coarse sand: 2 stone chipping 100 mm nominal size) in panels with groove all around as per approved pattern including scrubbing and washing the top layer with brushes and water to expose the stone chipping, complete as per specification and direction og Engineer-in Charge (payment for providing grooves to be made separately).	SQM	60		
22	WATER PROOFING FOR MAIN R.C.C TANK ON TERRACE				

	Placing & laying injection grouting cum polymer water proofing by applying two coats of polymer (cementious base) coating over water proofing 20mm plaster after cleaning the surface and providing not less than 18mm G.I Nozzles, covering 1.5m x 1.5 grid for pressure grouting of cement slurry admixed with expandable powder of aooroved manufacture, admixture, waterproofing plasticiser etc. polymer coating shall be protected by 20mm thick water proofing plaster complete as per detailed specifications (work to be executed by approved specialied agency).				
	At terrace level				
	40mm Guiniting to be done with welded ware mesh	SQM	150		
23	STRUCTURAL STEEL				
	Structural steel works welded in built-up section trusses and framed work, castellated girders etc. for external façade as per detailed drgs, for all height. Including cutting housting, (required scaffolding for all height) fixing in position and applying priming coat of approved steel primer all complete.	Kg	3000		
24	Providing and fixing of developing on altanative water storage with bye-pass to Old existing. As per programe (5000x6 tanks) to be conneted on a new base. This item covers only all piping (inlet and outlet) to be integrate with existing distmbuls system contractor need to examine the site befor gunting. all fittings, N.R.V valavs control valves main header. included in the item.	job	job		
	TOTAL AMOUNT				