

**TENDER DOCUMENT VOL - II
(FINANCIAL BID)**

REPAIRING OF FIRE ESCAPE STAIRCASE AND EXTERNAL DEVELOPMENT WORK

AT

ICSI HOUSE, PLOT NO. C-36, SECTOR-62, NOIDA, U.P, 202301

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भारतीय कम्पनी सचिव संस्थान

IN PURSUIT OF PROFESSIONAL EXCELLENCE

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FINANCIAL BID

SCHEDULE OF QUANTITIES FOR REPAIRING OF FIRE ESCAPE STAIRCASE AND EXTERNAL DEVELOPMENT WORK AT ICSI HOUSE, PLOT NO. C-36, SECTOR-62, NOIDA, U.P

SUMMARY

Sr. No.	DESCRIPTION	AMOUNT(Rs.)
A	REPAIR WORK OF STAIR CASE	
B	EXTERNAL DEVELOPMENT WORK	
	SUB TOTAL-	

A	Repair work of Staircase				
S.No	Description	Unit	Quantity	Rate	Amount
	Scaffolding				
1	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40mm dia M.S. tube 1.5 r/c centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes. M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. Complete as per directions and approval of Engineer in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done.	Sq.m.	300		
	Providing temporary support to existing damaged slabs/other members at all level for safety till the completion of structural strengthening works, using props, jacks including horizontal supporting members, labours, tools, safety gears etc. all complete as per directions and approval of Engineer in-charge. Note: This item shall be utilised for venerable structural members only. The bottom area of such member shall be measured for payment.	Sq.m.	100		
	Concrete Repair				
2	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge.				
	50mm average thickness	Sq.m.	150		
3	Cleaning of rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
	Bars upto 12 mm diameter	Metre	100		

4	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.				
	Upto and including 12mm dia.	Each	300		
5	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. •				
	Epoxy bonding adhesive having coverage 2.2(1 sqm/kg of approved make	Sq.m.	100		
6	Providing and applying Fosroc Renderoc SP40 (or equivalent from SIKA) shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound.The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately.				
	12 mm thickness.	Sq.m.	100		
	25 mm thickness	Sq.m.	100		
7	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-InCharge	Each	200		
7	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in- Charge.(The payment shall be made on the basis of actual weight of approved grout injected.)				
9	Epoxy injection grout in concrete/RCC work of approved make	Kg.	50		
10	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	3		

11	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead	sqm	20		
12	Centering and shuttering including strutting, propping etc. and removal of form for :				
	Suspended floors, roofs, landings, balconies and access platform	sqm	50		
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	500		
14	Micro-concrete premixed - Dual-shrinkage compensated, micro-concrete for placing in nominal thickness of 25mm to 200mm for concrete repair with compressive strength as per demand. Providing and laying polymer modified cementitious micro-concrete prepacked single component, chloride free, sulphate free, non-shrink, free flow, self compacting, ready to use after mixing water in specified proportion of approved quality. The rate shall be included with the shuttering cost and the supporting jack system/probe to support the shuttering plate in this application of High strength, The micro concrete shall be mixed strictly following the w/p ratio mentioned in the datasheets. The mixed micro concrete shall be poured into the formwork from one side of the formwork while gently tapping the sides of the formwork. Note :- While pouring the column concrete to cover the beam column junctions, connecting slab at the location shall be broken to an area as recommended by the consultant in charge for ease in application and pouring of the micro-concrete. (Make- Fosroc Renderoc RG/Mapei Mapefill MC 06/SikaRep Microcrete-4)	cum	2		
	MS Railing Work				
15	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	kg	4000		
16	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg.	1500		
	Hot finished welded type tubes				
18	Providing and fixing bolts including nuts and washers complete.	Kg.	250		
19	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
20	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacturer	Sq.m.	200		
	Plastering & Finishing				

21	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.me(ers 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, all complete as per direction of Engineer-in-Charge.				
	With cement mortar 1:4 (I cement: 4 coarse sand)	Sq.m.	25		
22	06 mm Cement Plaster of Mix:-				
	1: 3 (1 Cement : 3 Fine Sand)	Sq.m.	50		
	Painting and finishing work				
23	Providing and applying white cement based putty of average thickness I mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sq.m.	250		
24	Finishing walls with waterproofing Cement Paint of required shade :				
	New Work (Two or more Coats applied @3.04 Kg/ Sqm)	Sq.m.	250		
25	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sq.m.	250		
26	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 : Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sq.m.	40		
	Plumbing				
27	Providing and fixing on wall face 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	Metre	60		
28	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for 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.				
a)	Coupler				

b)	110 mm	Each	16		
29	Bend 87.5 degree				
	110 mm bend	Each	4		
30	Trap.	Each	8		
	Malba Disposal				
31	Disposal of mooram/ building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead up to 10 km for all lifts, complete as per directions of Engineer-in-Charge .Note- item to be applicable in urban areas having directions for restricted hours for movement/ plying of loading carrying motor vehicle of 3.5 cum or more	Cu.m.	85		
	TOTAL FOR REPAIR WORK OF STAIRCASE				

B	External Development Work				
1	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	Each	20		
2	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm	Metre	200		
3	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	Sq.m.	1000		
4	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 mm thick	Sq.m.	500		
5	<p>Providing and laying C.C. pavement of mix M-30 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). Making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge. (Joint filler and sealants to be paid extra.</p> <p>Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.</p>				

5.1	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	Cu.m.	150		
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
6.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg.	6000		
7	Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.	Litre	500		
8	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.				
8.1	Using grade 'A' scaling compound conforming to IS: 1834.	per cm depth per cm width per metre length	7500		
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
9.1	1:4:8 (1 Cement :4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cu.m.	55		
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in				
10.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	30		
11	12 mm cement plaster finished with a floating coat of neat cement of mix : (For Drain)				
11.1	1:4 (I cement: 4 fine sand)	Sq.m.	300		
12	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50mm x 1.6 mm complete, all as per direction of Engineerin- charge.	Each	100		
	TOTAL FOR EXTERNAL DEVELOPMENT				