



**Structural Repair, Waterproofing and Painting works in NABARD
Residential Quarters MF 27 and MF 28 building, Nandini Layout Main Road,
Nandini Layout, Bengaluru, Karnataka 560096**

PART II (FINANCIAL BID)

Tender Ref. No.	NB.KA.RO.DPSP / / Structural Repairs - Nandini Layout / 2021-22 dated 14 July 2021
Date of commencement of issue of Tender	14 July 2021
Due date and time for submission of Tender	14:30 hrs on 04 August 2021
Date and time of opening of the tender (Technical Bid)	15:30 hrs on 04 August 2021
Date and time of opening of the financial bid	Shall be communicated to the technical qualified bidders later.

Name of the Bidder	
Address	

**Note: Any bid with incomplete information will
be rejected**

Signature and stamp of the Bidder

Bill of Quantities

Sr. No	Item Description	Quantity	Unit	Rate	Amount
A) Preparatory Works					
A.1	<p>Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, 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 thereafter .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 Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. sqm 257.95</p> <p>Note: - The scaffolding erected shall be used for structural repairs, plastering, painting etc. The measurement should be taken once only as per the area of building covered by scaffolding. i.e. no separate measurement shall be considered if the contractor is removing and re-erecting the scaffolding for different works.</p>	3300	SQ MT		

A2	<p>Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density 100gm/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with building/scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work)</p>	3,300	SQ MT		
Total of (A) Preparatory Works					
B) Structural Repairs					
	Chipping & Cleaning of Concrete				
B1	<p>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 (Item 26.28 -CPWD - DSR 2018)</p>	75	SQ M T		
B2	<p>Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. (Item 15.56 -CPWD - DSR 2018)</p>	1003	SQ M T		
B3	<p>Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of</p>	130	Cum		3

	unserviceable material within 50 metres lead as per direction of Engineer - in-charge. (Item 15.3 -CPWD - DSR 2018)				
Anti Corrosion Treatment					
B4	Cleaning of reinforcement from 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.(Item 26.69 -CPWD - DSR 2018)				
	Bars upto 12 mm diameter	825	Per Rmt		
B5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level				
	Mild steel and Medium Tensile steel bars	75	Kg		
Polymer Repairs					
B6	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.(Item 26.31 -CPWD - DSR 2018)				
	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer.	75	SQM T		

B7	<p>Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.</p> <p>Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).(Item 26.32 - CPWD - DSR 2018)</p>				
	25 mm average thickness in 2 layers.	75	SQM T		
Sub Total (B) for Structural Repairs					
C) Civil Works					
C1	<p>Repairs to plaster of thickness 12 mm(ceiling) to 20 mm(walls) 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, all complete as per direction of Engineer-in-Charge.(Item 14.10 -CPWD - DSR 2018)</p>				
	With cement mortar 1:4 (1 cement : 4 fine sand)	1913	SQM T		
Protective Coating					

C2	Surface preparation for painting-internal and external: Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, cleaning with water jet etc. complete.(Item 13.91-CPWD - DSR 2018)	6642	SQM T		
C3	Painting Internal: Wall painting with premium acrylic emulsion paint of interior grade such as premium emulsion of Asian Paints or equivalent, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.(Item 13.83-CPWD - DSR 2018) The rate shall be inclusive of cost of scaffolding charges as per requirement.				
	Two coats	1050	SQM T		
C4	Finishing walls with Acrylic Smooth exterior paint of required shade such as Apex Ultima of Asian Paints or equivalent (Item 13.46-CPWD - DSR 2018)				
	(Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) The rate shall be inclusive of cost of scaffolding, if any, in addition to item No. A1.	5594	SQM T		
C5	ENAMEL PAINT FOR MS GRILLS, HAND RAILINGS:Providing and painting two coats of synthetic enamel paint of approved brand, shade and colour over one coat of primer including preparation of surface by sand papering and filling with approved filler for wood works or steel work	800	Sqm		

	complete as per manufacturers specifications to give even shade and satisfactory finish at all heights complete. The rate quoted shall be inclusive of scaffolding charges as per requirement.				
Sub Total (C) for Civil Work					
D)Grouting & waterproofing to Overhead water tank and other Plumbing Works					
D1	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.) (Item 26.35-CPWD - DSR 2018)				
	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	29	Kg		
D2	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete				

	by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. sqm 373.40				
	For vertical surface two coats @ 0.70 kg per sqm sqm 484.45	84	Sqm		
	For horizontal surface one coat @1.10 kg per sqm.	24	Sqm		

Plumbing

D3	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	90	RMT		
	75mm diameter	90	RMT		
D4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
	50mm Dia(2" dia)	60	RMT		
	32mm dia(1" dia)	120	RMT		
	Sub Total (D) for Plumbing Work				

E)Flooring

E1	Removing of Existing Corridor Flooring: Removing the existing corridor Flooring of Tandoor Blue and carting away all debris from site etc. complete with all lead and lift and staging work if necessary at all heights.	140	Sqm		
E2	Providing and laying Polished 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. 11.56.1 Polished Granite stone slab jet Black, Cherry Red, Elite Brown,Cat Eye or equivalent.	140	SQM T		
Sub Total for Flooring Work(E)					
Total Amount (A+B+C+D+E)					
GST@18%					
Gross Total					

Note:

- a. Quoted rates shall include all applicable taxes, fees, duties, levies, transportation charges, insurance charges, installation charges, material charges, labour charges and all other charges required for the successful completion of work. The applicable GST shall be indicated separately and shall be paid accordingly.
- b. Price Bid shall not contain any condition whatsoever and any conditional bids shall be rejected.
- c. Interested bidders are requested to kindly visit NABARD RO on any working day and inspect the site before submitting the tender

d.

I / We hereby declare that I / we have thoroughly read and clearly understood the instruction in the tender document.

Place:-

Date:-

Name, Address and Seal of the Contractor/firm

