



राष्ट्रीय डिज़ाइन संस्थान
NATIONAL INSTITUTE OF DESIGN

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Tender Document

Tender for “Structural Retrofitting work of RCC Wall/Fins & Columns etc. of Academic Block, Boys Hostel-A & Girls Hostel-C, NID, Paldi, Ahmedabad campus.”

Part-2: Financial Bid

(Financial bid shall be online submission only on www.nprocure.com.)

Tender Submitted By:

BILL OF QUANTITY

Name of Work : Structural Retrofitting work of RCC Wall/Fins & Columns etc. of Academic Block, Boys Hostel-A & Girls Hostel-C, NID, Paldi, Ahmedabad campus.

Item.No.	Description of Item	Qty.	Unit	Rate(Rs.)	Amount(Rs)
1	Demolishing R.C.C. / RB work manually/ by mechanical means at any level including retention of serviceable steel bars and removal of unserviceable material from work place and disposal of the same outside the NID campus.	7.00	Cum		
2	Reinforced cement concrete work in vertical and horizontal walls/fins individually or forming box louvers, facias etc at any floor level, excluding the cost of centering, shuttering, scaffolding, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 12.5 mm nominal size derived from natural sources).	7.00	Cum		
3	Centering and shuttering including strutting, propping etc. and removal of form for Vertical and horizontal walls/fins individually or forming box louvers band, facias etc at any floor level. Note: The joint of shuttering plates is to be maintained as per the existing pattern for exposed RCC.	90.00	Sqm		
4	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. at any floor level and disposal of debris outside NID campus for all lead and lifts all complete.				
(a)	25 mm average thickness	15.00	Sqm		

5	<p>P/A ANTI CORROSIVE RUST REMOVER ON REINFORCEMENT :</p> <p>Providing and applying anti corrosive rust remover "Rusticide" of M/S Sunanda speciality coating pvt Ltd or equivalent approved including cleaning the reinforcement bars with wire brush or air blowing including removing of all loose particle with applying rust remover thoroughly on reinforcement bars by using cotton waste swab etc. comp. with all the required tools, tackles, labourers as required and as directed by the Engineer in charge. (Area of Concrete treated with poymer modified mortar shall be measured for payment)</p>	15.00	Sqm		
6	<p>P/A STEEL PROTECTIVE COATING :</p> <p>Providing and Applying Steel protective coating: The exposed and cleaned reinforcement bars shall be applied with a single component cementitious corrosion inhibiting primer which shall be applied on the surface using suitable brush. Product: Mucis Protozione Ferro Mono of Thermax (Area of Concrete treated with poymer modified mortar shall be measured for payment)</p>	11.57	Sqm		
7	<p>Bonding Coat:-</p> <p>Providing and applying bond coat on the prepared surface to receive new polymer mortar / polymer modified concrete, with application of bonding coat of slurry made of Polyalk EP of M/S Sunanda Speciality Coating Private Ltd or of equivalent approved brand and manufacture in the weight proportion of 1 :2 (1 cement : 2 Polyalk EP) or / Lanco 751 of Parex Chemicals or Krishna Conchem as per manufactures specification over the cleaned and dried old concrete surface in one full coat. Laying of reinforcement polymer mortar or micro concrete shall be completed within the overlay time of bonding coat. This coat act as bonding agent between old and new concrete and also acts as 'barrier coat' to the migration of chloride ions from host concrete. Item rate is inclusive of the materials all labour, scaffolding, supervision, tools and tackles and transportation etc. complete as per specification and as directed.</p> <p>To ensure proper bonding between old and new concrete application of bonding coat of slurry made of Polyalk EP of M/S Sunanda Speciality Coating Private Ltd or of equivalent approved brand and manufacture in the weight proportion of 1 :2 (1 cement : 2 Polyalk EP) or Lanco 751 of Parex Chemical as per manufactures specification over the cleaned and dried old concrete surface .</p>	11.57	Sqm		

8	P&A POLYMER MODIFIED CEMENT MORTAR : Applying Corrosion Resistance single Component, polymer modified cement mortar to patch up the damaged concrete section in planks of upto 25mm thickness. Providing and applying Corrosion Resistance Single Component, polymer modified, fiber reinforced cementitious repair mortar having water powder ratio in the range of 0.16 and the mixed density of around 2.05 - 2.20 Gms/cc. The repair mortar shall achieve a minimum compressive strength of 45 MPa @ 28 days when tested as per ASTM C-109 and a flexural strength of 7 MPa when tested as per ASTM C 348. It shall achieve a minimum Adhesion Bond Strength of 2 MPa when tested on Standard Elcometer as per ASTM D 4541 - 85. The modulus of Elasticity shall be a minimum of 28 kN/mm ² when tested as per BS 1881. Product: corrosion resistance single Component, polymer modified, fibre reinforced cementitious of M/s. Fosroc (Renderoc SP-40), Parex (Lanko-731).	11.57	Sqm		
9	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 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.	750.00	Sqm		
10	12 mm cement plaster finished with cement mortar of mix : a) 1:3 (1 cement: 3 fine sand)	11.57	Sqm		
11	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by NID. a) All kinds of soil	4.00	Cum		
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to	3.00	Cum		

	50 m and lift upto 1.5 m.				
13	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : a) 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	2.00	Cum		
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. a) Thermo-Mechanically Treated bars of grade Fe-500D or more.	600.00	Kg		
15	Providing and laying of polymer modified micro concrete like Sika make "SikaRep-Microcrete-4", Sunanda Chemical make "Polycrete-A/B", Parex Group make "Lanko-701", BASF make "Master Emaco S346 or equivalent material of Krishna Conchem blended with washed saturated surface dry (SSD), graded, low absorption, high density, aggregates of size 5mm to 12mm at 50% by weight of micro concrete and water as per manufacturer's specification and pouring into the form work using suitable arrangement or if required using pumping device for uniform flow of Micro concrete. The side shuttering can be removed after 3 days and the bottom shuttering after 7days ensuring proper bond between the micro concrete and existing concrete substrate. Item rate is inclusive of the material, all labour, supervision, tools and tackles, scaffolding and transportation, curing for minimum 10 days etc. complete as per specification and as directed.	2.00	Cum		
16	Centering and shuttering including strutting, propping etc. and removal of form for : a) Foundations, footings, bases of columns, etc. for mass concrete.	4.00	Sqm		
17	Centering and shuttering including strutting, propping etc. and removal of form for : a) Columns, Pillars, Piers, Abutments, Posts and Struts.	10.00	Sqm		
18	Extra for shuttering in circular work (20% of respective centering and shuttering items)	10.00	Sqm		

20	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 NID.				
20(a)	For 8 and 10 mm dia. Bar, depth 100mm	10.00	Nos.		
20(b)	For 12 mm dia. Bar, depth 120mm	10.00	Nos.		
			Total		