

BEML LIMITED, BANGALORE COMPLEX

Ref: RMM/Ten- 6300040080			Date: 11-12-2025		
Issued to			Period of Contract: 30 Days		
			EMD:	Rs. 74,637 /-	
Sub:-Consultancy services for conducting the structural stability test of BEML Quarters, BEML Township, Bangalore.					
SI No	Description of work	Unit	Qty.	Rate/ Unit in fig. and in works Rs.	Amount Rs.
1	<p>The scope of work of the Consultancy services shall be as follows:</p> <p>A) NDT & Condition assessment report :</p> <p>1. Visual Inspection and Site Survey. Detailed visual inspections of all structural elements for 21 Nos. of Blocks</p> <p>2. Inspection of critical load carrying elements for current condition.</p> <p>3. Locate deteriorated areas wherein closer observations are possible. Surface defects including cracks, honey combing, rust staining, reinforcement corrosion, delaminated concrete efflorescence and spalling.</p> <p>4. Exposed reinforcement and any other type of defect encountered to be documented and summarized and photographically illustrated for representative areas.</p> <p>5. Condition of steel reinforcement to be categorically specified along with the observed corrosion of the exposed members.</p> <p>B) Non Destructive Tests (NDT) to be undertaken.</p> <p>1. UPV Test: - (IS 516 Part 5 Sec 1 :2018) by portable ultrasonic non destructive digital test equipment including chipping out plaster at upto 10 strategic locations per Block</p> <p>2. Rebound hammer Test - (IS 516 Part 5 Sec 4 :2020) by portable rebound hammer equipment at upto 10 strategic locations per Block.</p> <p>3. Cover Meter Test - - (BS 1881 Part 204:1988)</p> <p>4 Core test :- Core cutting and compression test (IS 516 Part 4:2018) for RCC structure in accordance with IS:516 on RCC members. 70 mm core cutting in reinforcement concrete, core filling by specialized epoxy material/micro concrete with bond coat at upto 3 strategic locations per block.</p> <p>5. Reinforcement mapping :- Reinforcement mapping test on RCC members to assess covers spacing of bars including approximate diameter at upto 3 strategic locations per block</p> <p>6 Half-cell potential Test - (ASTM C-876:2015) at upto 5 strategic locations per block.</p> <p>7 Carbonation Test - (BS EN 14630:2006) at upto 5 strategic locations.</p> <p>8 Chemical Testing (pH, Cl, Sulphate) - (BS-1881 Part 124(2015) IS 2720 P -26-1987 (2002) at upto 5 strategic locations per block</p> <p>The testing shall be carried out under NABL accredited laboratories as applicable.</p> <p>C) Reporting:</p> <p>All visual inspection reports and test reports shall be quantitative in nature, clearly outlining the credibility of each test. Checking and confirming the present status of structure on basis on NDT results & visual inspection.</p> <p>D) DELIVERABLES:</p> <p><input type="checkbox"/> Documentation of distresses identified location wise for each structure.</p> <p><input type="checkbox"/> Performing, Reporting & Analyzing Listed ND Testing.</p> <p><input type="checkbox"/> Repair Methodology : To provide recommendation for structural repairs and technical specification. Preparing bill of quantities for the repair etc. All as specified and directed.</p> <p><input type="checkbox"/> Comprehensive condition assessment report.</p> <p>Note: 1. The tenderers shall note that the records of 'As built Drawings" or any structural drawings pertaining to the quarters are not available with BEML. Basic Autocad plan available will be furnished to the L1 firm for reference purpose if required.</p> <p>2. The scope shall also include travelling, lodging-boarding, testing equipment, Excavation for foundation required for the project.</p>	Job	1		
				Rs.	
GST/ Taxes				Rs.	
Total value of work inclusive of Taxes				Rs.	

Authorised Signatory
(PURCHASE DEPT)

Signature of Consultant with Seal