

E - TENDER
SELECTION OF STRUCTURAL CONSULTANT FOR
CARRYING OUT NON- DESTRUCTIVE TESTING (NDT) OF
OFFICE BUILDING, CENOTAPH ROAD OFFICERS QUARTERS,
SOUTH BOAG ROAD STAFF QUARTERS, BAZULLAH ROAD
OFFICERS' QUARTERS - CHENNAI



NATIONAL BANK FOR AGRICULTURE AND
RURAL DEVELOPMENT

TAMILNADU REGIONAL OFFICE

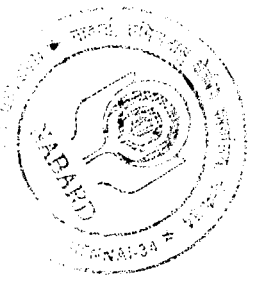
TENDER DOCUMENT
PART-II
(PRICE BID)

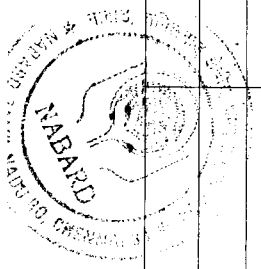
ISSUED TO

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Price bid - Structural Conditional Assessment of Office, CRQ, SBRQ and BRQ

S.No	Descriptions	Quantity					Unit	Rate Rs.	Amount Rs.
		Office	CRQ	SBRQ	BRQ	Total			
1	Conducting detailed survey of office building, CRQ, SBRQ by visual inspection covering External faces, common areas e.g. Terrace, staircase, water tanks, lift machine rooms, basement etc. All floors of the building to assess current state of condition, levels of deterioration, stability / durability etc.	1	1	1	1	4	lump sum		
	NDT								
2(a)	Rebound Hammer Test: Preparing the surface of RCC structural members such as beams, columns, slabs etc by chipping the plastered surface/finishing/cladding to expose the concrete, smoothing the area using carborandum stone all in terms of relevant IS code and conducting rebound hammer test all as per IS 13311-1992(Part 2) or as directed by consultant including analysis of the test result & preparation of separate report for each building with observations and recommendations for remedial measures if any.	40	60	75	40	215	No.s		
(b)	UPV (Ultrasonic Pulse Velocity) Test: Preparing the surface of RCC structural members such as beams, columns, slabs etc. by chipping the plastered surface/finishing/cladding to expose the concrete, smoothing the area using carborandum stone all in terms of relevant IS code and conducting rebound hammer test all as per IS 13311-1992(Part 1) or as directed by consultant including analysis of the test result & preparation of separate report for each building with observations and recommendations for remedial measures if any. (Minimum 5 locations to be tested for each member) (Including I. Ladder & Scaffolding charges, II. Chipping of Plastering for surface preparation, III. Plastering & finishing of tested locations, IV. Painting)	50	70	90	90	300	No.s		
(c)	Half Cell Potential Test for Corrosion mapping: Preparing the structural members as directed to expose the reinforcement steel, cleaning the area with blower/wire brush and carrying out half-cell potentialmeter test for measuring the level of corrosion of reinforcement steel in the RCC member including analysis of the test result & preparation of separate report for each building with observations and recommendations for remedial measures if any.	5	12	16	8	41	No.s		





S.No	Descriptions	Quantity					Unit	Rate Rs.	Amount Rs.
		Office	CRQ	SBRQ	BRQ	Total			
(d)	Carbonation Depth Test: Preparing the surface of RCC structural member such as beams, columns, slabs, water tank walls & slab etc by chipping the plastered surface/finishing/cladding to expose the concrete, cutting etc as per relevant code and conducting carbonation test at various depth as directed by consultant using phenolphthalein of specified concentration to assess depth of carbonation including analysis of the test result & preparation of separate report for each building with observations and recommendations for remedial measures if any.	10	12	16	8	46	No.s		
(e)	Core Test: Preparing the structural members as directed to expose the concrete using profometer survey, cleaning the area with blower /wire brush and taking out the concrete sample with cutter and testing as per standard specification including analysis of the test result & preparation of separate report for each building with observations and recommendations for remedial measures if any.	2	3	4	3	12	No.s		
(f)	Chemical Test for chloride (Cl) and pH valve: Collecting concrete samples in powder form, either by drilling or from core test samples, extracting chloride content and determination of pH using pH probe meter as per standard specification including analysis of the test result & preparation of separate report for each building with observations and recommendations for remedial measures if any. (including the repair cost if samples collected by drilling)	1	1	2	2	6	No.s		
3	Consultancy charges for preparation of structural audit report which includes (a) The findings from detailed visual inspection as in item 1. (b) Non-destructive test results (c) Suggested remedial measures. all based on the visual inspection, NDT, assessment as per item 1 and 2	1	1	1	1	4	No.s		
4	Preparing the bill of quantity and the tender document for the proposed structural rehabilitation works to be taken up based on the outcome of the aforesaid testing.	1	1	1	1	4	No.s		
5	Charges for intermittent site visits during the execution of the repair works at 4 buildings based on the structural audit report/detailed BOQ vide item 3 & 4. The repairs will be taken up by NABARD as per their procedure.(No.of Site Visits) (Tentative)	5	5	5	5	20	No.s		
6	To carry out final assessment after the completion of repair works and issue a structural fitness certificate.	1	1	1	1	4	No.s		
Total of PART A								0	
GST 18%								0	
Total amount (Rs.)									0