

Volume-II

NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE (NABI)

(Department of Biotechnology,
Ministry of Science and Technology, Govt. of India)
Knowledge City, Sector-81, SAS Nagar, Mohali, Punjab

FINANCIAL BID DOCUMENT



MAINTANENCE OF DAMAGED BOUNDARY WALL AT NABI

TECHNICAL SPECIFICATIONS

1.0 STANDARD SPECIFICATIONS TO BE FOLLOWED

The work should be executed as per following CPWD specification and also the specification laid in tender document. In case, above specifications are not available for certain item, then the material should conform to ISI and BIS standards.

1.1 Civil Engineering Works

CPWD Specification 2009 Vol. I & II along with latest correction slips. These Specifications have replaced CPWD Specifications 1996 along with Correction Slips issued on them. These Specifications cover all types of Works. The specifications are available as a printed document issued by CPWD and also in soft copy PDF Format in CPWD website.

1.2 Electrical Engineering Works

- (A) CPWD General Specifications for Electrical Works Part I Internal - 2013.
- (B) CPWD General Specifications for Electrical Works Part II External - 1994.
- (C) CPWD General Specifications for Electrical Works Part IV Sub Stations – 2013.

The above specifications shall be read with upto date correction slips (if any).

NOTE: In case of any contradiction between the specifications, the contractor shall take the prior approval of the Engineer- In – Charge before executing the same at site.

LIST OF MAKES TO BE ADOPTED

S. No	Item	Make
1.	Cement	J K Lakshmi/ ACC/ Ultratech/ Ambuja
2.	Steel Reinforcement (TMT bars)	Tata/JSW Jindal/ Sail/Vizag
3.	Cement Putty	Birla/J K Lakshmi
4.	Mild steel tubular/section work	Jindal/Apollo/Tata/Avon/Swasthik
5.	Paint	Asian Paint/ Berger/ICI

Note: - Any other material make not mentioned above shall be ISI marked & got approved from Engg-in-charge

BOQ FOR MAINTANENCE OF DAMAGED BOUNDARY WALL

S.N	Description.	Unit	Qty	Rate		Amount
				(In figures)	(In Words)	
<u>1</u>	Earth work in excavation by mechanical means(hydraulic excavator)/manual means in foundation, trenches of drains(not exceeding 1.5 m in width, 1.5 m in depth or 10 sqm. on plan), including dressing of sides and ramming of bottoms lift , including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.					
	Qty in cum.	cum	117.00			
<u>2</u>	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 upto 50 m and lift upto 1.5 m.					
-		cum	117.00			
<u>3</u>	Providing & laying in position cement concrete of specified grade excluding the cost of centering and shuttering –All work upto plinth level.					
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	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)					
	Qty in cum	cum	1.755			
<u>4</u>	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level					
	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).					
		cum	42.12			
<u>5</u>	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 :					
	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)					
		cum	25.43			

6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :					
	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).					
		cum	6.91			
7	Centering & shuttering including strutting, propping etc. and removal of form for:-					
a	Foundations, footings, bases of columns, etc. for mass concrete	sqm	67.20			
b	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	45.36			
c	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	46.80			
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level & above levels.					
	-Thermo-mechanically treated bars.	Kg.	3072.015			
9	Demolishing R.C.C. work manually/ by mechanical means including disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	5.000			
10	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	cum	3.500			
11	Disposal of un-servicable material, malba outside campus to the authorized dumping site of local authority including cost of loading, unloading etc.	Lump sum	Complete Job			
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth, above level in:					
	Cement mortar 1:4 (1 cement : 4 coarse sand)					
		cum	19.87			

13/ 13. 5.1	15 mm cement plaster on brick wall of mix: 1:4 (1 cement: 4 coarse sand)					
		sqmtr	226.80			
14	Finishing walls with Acrylic Smooth exterior paint of required shade :					
	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm.	226.80			
15	Providing and applying white cement based putty of average thickness 1mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.					
		sqm	226.80			
	Total Amount inclusive of GST etc (In Figures)					
	Total Amount inclusive of GST etc (In Words)					

NOTE: - Payment shall be released item wise based on actual measurement examined at site by Engineer- In- Charge. Rate quoted shall be deemed to be inclusive of GST/other taxes, profits etc.

Signature/Stamp of Bidder