



विशाखपट्टणम पत्तन प्राधिकरण
अभियंता विभाग
प्रशासनिक भवन, पोर्ट क्षेत्र
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విశాఖపట్నం పోర్ట్ అధికారిటీ
VISAKHAPATNAM PORT AUTHORITY
ENGINEERING DEPARTMENT
Administrative Building, Port Area
Visakhapatnam – 530035 (A.P)

Work Order no:02 of EE(P&D) of 2025-26

No: IENG/EE(P&D)/SAB /Pt-I/ 68
Dt: 28 -01-2026

To
Prof. Nilanjan Saha,
Department of Ocean Engineering,
Indian Institute of Technology Madras,
Chennai - 600 036.

Sir,

Sub: Consultancy Services for Non-Destructive Testing of Structural Components of Berths, Wharfs and Quays older than 10 years from the date of Commencement – Reg.

- Ref: 1) VPA Lr.no: IENG/EE(P&D) /SAB/PT. I/810. Dt.18.09.2025
2) IIT Lr.no. IC/2526/0354/OE/VISA/008460Ltr:437 dt.21.10.2025
3) VPA Lr.no.IENG/EE(P&D)/SAB/Pt.I/0946. Dt 27.10.2025.
4) IIT Lr no.IC/2526/0354/OE/VISA/008460Ltr:478 dt:13.11.2025
5) VPA Lr.no. IENG/EE(P&D)/SAB/ Pt. I / 1009. Dt 17.11.2025.
6) IIT Lr no.IC/2526/0354/OE/VISA/008460Ltr:484 dt 21.11.2025.
7) VPA Lr.no. IENG/EE(P&D)/SAB/ Pt.I/1061. Dt 26.11.2025.
8) IIT Lr no.IC/2526/0354/OE/VISA/008460Ltr:484(A) dt 28.11.2025.
9) VPA Lr.no.IENG/EE(P&D)/SAB/ Pt.I/1086. Dt 02.12.2025.
10) IIT Lr no.IC/2526/0354/OE/VISA/008460Ltr:523 dt 08.12.2025.

With reference to the correspondence cited, your offer for an amount of Rs.2,28,00,000/- (Rupees Two crores twenty eight lakhs only) plus applicable GST for availing consultancy services of IIT Madras for the subject work is accepted subject to the following terms & conditions:

The components of the following's berths, Wharfs and Quays in Visakhapatnam Port to be tested are as follows.

Table 1: Description of structure

S. No.	Berth	Year of Commissioning	Type of construction
NORTHERN ARM			
1	EQ 1	2014	A system of piles & Diaphragm wall
2	WQ 1 Return End	2015	A system of piles & Diaphragm wall
NORTH WESTERN ARM			
3	Fertilizer Berth	1967	R.C.C in-situ deck, supported on piles

OUTER HARBOUR			
4	OSTT	1985	Concrete Caissons (Pre-cast, floated and sunk in position)
5	LPG Jetty	1998	Dolphin type structures with deck supported on piles
6	Green Channel Berth	2016	A system of Anchor & T- Diaphragm wall
7	OB -1	1975 & upgraded on 2018	Monoliths
8	OB 2	1975 & upgraded on 2018	Monoliths

1.0 Consultancy Scope of Work:

The Non-Destructive test needs to be carried out to ascertain the stability of the existing structure as the structure exposed to marine condition. The NDT tests will be done at only a few representative locations only where the distress is considerably more. The NDT results will indicate whether the structure can be repaired.

The NDT will be conducted on the above water Front Portion of the berths/ Quay, including Piles, Fender Beam, Longitudinal and Cross Grid Beams and Deck Slab, to assess the existing conditions. A boat access will be provided by VPA to access the locations below the berth / quay area to understand the damage.

The NDT tests will be conducted only in the accessible locations above water level/tidal zone. The underwater study is not included in the present scope of work.

The detailed scope of work for RC structural component in each berth /Quay will be:

Table :2 : Structure wise test to be carried out

S. No.	Berth	UPV (Nos)	Half Cell (Nos)	Core Drilling (Nos)	Carbonation Test (Nos)	Evaluation of chlorides and pH
NORTHERN ARM						
1	EQ 1	150	12	9	9	12
2	WQ 1 Return End	150	12	9	9	12
NORTH WESTERN ARM						
3	Fertiliser Berth	100	9	9	9	9
OUTER HARBOUR						
4	OSTT	150	12	9	9	12
5	L G Jetty	150	12	9	9	12
6	Green Channel Berth	150	12	9	9	12
7	OB -1	150	12	9	9	12
8	OB-2	150	12	9	9	12



విశాఖపట్టణం పతన ప్రాధికరణ
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VISAKHAPATNAM PORT AUTHORITY
ENGINEERING DEPARTMENT
Administrative Building, Port Area
Visakhapatnam – 530035 (A.P)

The scope of work also includes

Phase -I:

- a) Conducting visual inspections and observations for all primary components shall be noted and remarks shall be provided for the purpose of insurance.
- b) Conducting the NDT testing for the locations mentioned in table 2.
- c) Preparation of test report
- d) Preparation of the Bill of Quantity for the rehabilitation of the distressed.
- e) Preparation of cost estimate based on BoQ.
- f) Suggesting suitable Rehabilitation methodology for the distressed RC structural elements.

2.0 Consultancy Charges:

The NDT need to be conducted on the Quay, including a) Piles b) Fender Beam (at berth face), c) Longitudinal beams d) Cross Grid Beams and e) Deck Slab, to assess the existing conditions. A boat access shall be provided by client to access the locations underneath the deck slab area for investigations.

The revised cost of the NDT testing for eight berths shall be **Rs 228.00 lakhs + GST**

The GST shall be the date of remitting the amount (presently @18.00%) and a fixed period of 5 months from the date of receipt of advance. It does not include additional site visits.

3.0 Payment Schedule:

1. 40 % advance along with the work order
2. 30 % on Completion of field tests.
3. 20 % on submission of draft report
4. 10 % on Submission of Final report.

Timeline: 6 months immediately after receipt of advance payment .

4.0 Special Information:

1. NDT works are done only in few representative locations based on which the BoQ is prepared. Our past experience has shown sometimes that additional repairs require to be undertaken during the retrofitting of the complete quays. This leads to excess quantity requirements, in such cases, additional stage of repair may be necessary.
2. Usually in the NDT rehabilitation, there may be requirement to add an extra item which is not present in the BoQ within the tender amount. The Engineer-in-charge can add that item depending on the smooth completion of the project.
3. The NDT tests will be conducted only in the accessible locations above water level/tidal zone. The underwater study is not included in the present scope of work.

4. The structural stability as well as the load carrying capacity of the RC quay components will not be covered under the present scope. The rehabilitation to the original strength will be attained.
5. The traffic data information for each berth shall be shared during the days of testing.
6. The logistics (especially police/port passes or permission, etc.) for entering site area.
7. Scaffolding and water shall be made available free of cost for operating instrument/equipment at site.
8. IITM personnel shall be provided with two boats (if necessary) for free of cost to access the structural elements at the respective sites, also suitable for under deck investigation. Logistics and permission as well as removal of debris and should be done by client.
9. The five-member team may require for each berth / wharf/ quay 10-12 days depending on the weather conditions to complete the work.
10. One senior person of the client should be available during the NDT work.

5.0 Remittance Details of Consultancy Charges

IITM is exempted from paying Income tax. A copy of the exemption certificate is enclosed. No deduction should be made. An invoice will be sent for making the advance payment along with acceptance of the work order. The Cheque / DD should be drawn in favour of "The Registrar, IIT Madras" and sent to the undersigned. If the Client wishes to do a bank transfer while payment, they may do so. The bank transfer details are also attached. Our GST No: 33AAAAI3615G1Z6 and the prevailing rate is 18%.

It is requested to contact the Chief Engineer, VPA for further particulars and start the work. The letters under reference and this work order shall form part of the contract entered by you with the Port Authority. You have to enter into an agreement on non-judicial stamp paper worth of Rs100/- (Rupees one Hundred only) immediately.

Thanking you Sir,

Yours faithfully,


CHIEF ENGINEER 28/1/26

Copy to: 1)FA&CAO for information please.
2)EE(South) for information and necessary
arrangements at your end