



# DEENDAYAL PORT AUTHORITY

ISO 9001:2008 | ISO 14001 | ISPS Compliant Port



Office of the  
Executive Engineer (Project),  
Nirman Building, Room No. 200,  
New Kandla – 370 210.

No. Civil Engineering/Project Cell-Circle Division /1272/CB1to6/2023

Dated: 29/11/2023

To,  
Prof. S. Nallayarasu,  
Department of Ocean Engineering,  
Indian Institute of Technology, Madras  
**Chennai 600 036, India.**  
Tel.: (O) (044) 2257 4819, Fax : 044- 22574802  
Email: nallay@iitm.ac.in.

**Sub. :** Up-gradation of Fender for Cargo Berth No. 1 to 6 reg.

**Ref. :** IIT, Madras proposal vide letter dated 27<sup>th</sup> September, 2023.

Sir,

Your offer for the subject work submitted vide above referred letter dated 27/09/2023 (copy attached) amounting to Rs. 60,00,000.00 + Applicable GST (Rupees Sixty Lakhs Only Plus applicable GST), with all terms & conditions mentioned in the proposal, has been accepted to the extent show below:

## **1. Scope of work Description**

### **A. Structural Audit Report**

Structural Audit includes the following activities.

- Conduct detailed site review with the available drawings for any variations.
- Conduct above deck survey for any defects, exposure of reinforcement, etc.
- Conduct under deck survey for any exposure of reinforcement in beams, slab and pile (above water portion) and pile muff using high resolution photographs and video.
- Conduct core sampling 2 Nos per berth to derive the concrete strength.
- Prepare Structural Audit Report.

### **B. Detailed Design and Engineering**

Detailed Design and Engineering includes the following activities.

- Carry out berthing energy and select fender in line with the existing berths 7 to 10.
- Carry out simple structural analysis of the existing structure together with the information provided by DPA and the Structural Audit report.
- Develop structural repair plan drawings showing the exact location, including specifications and methodology using the following 6 schemes.
- Prepare tender drawings for repair of piles, pile muff and beams and deck slab.
- Prepare bill of quantities, rate analysis and cost estimate

## 2. Deliverables

The following deliverable will be prepared and issued.

- Structural Audit Report
- Drawings for tendering purpose
- Bill of quantities and Rate analysis
- Cost estimate report

## 3. Consultancy Fee

The total consultancy fee for the various scope of work is Rs 60 Lakhs +GST. 50% payment advance with work order and the balance 50% as follows.

- 25% upon issue of Structural Audit report
- 25% upon submission of drawings and tender

Payment shall be made to "The Registrar, IIT Madras".

Income Tax shall not be deducted as IIT Madras is exempt from income tax.

Payment shall be made within 30 days of issuance of invoice.

## 4. Travel

The travel required for the project duration considered as 3 months is included in the lump sum fee including local accommodation.

## 5. Schedule

The overall schedule for the completion of the scope of work is 3 Months from the date of work order.

Kindly send acknowledgement of this work order & start the work w.e.f. 01/12/2023.

Thanking you.

Yours faithfully,

  
**Executive Engineer (Project)**  
**Deendayal Port Authority**

**Copy To** :1) A.O.(W/A) :-

The proposal has been concurred in by the FA & CAO under Note No. 45 n/s dated 21/11/2023 and approved by the Chairperson, under Note No. 47 N/s dated 22/11/2023, in the File No. Civil Engineering/Project Cell-Circle Division /1272/CB1to6/2023, The expenditure shall be charged to the scheme Finance & Misc. (869/045/8145)

- 2) TPA to CE for kind information of the Chief Engineer, please.
- 3) RAO, DPA
- 4) Sr. DD (EDP) with a request to hoist this work order in website of DPA.