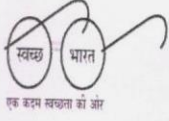


दीनदयाल पत्तन प्राधिकरण  
DEENDAYAL PORT AUTHORITY  
(Formerly known as Deendayal Port Trust)



Office of the Supdt. Engineer (H&D),  
Administrative Office Building  
Post Box No. 50, Gandhidham-Kachchh  
[sepikpt@gmail.com](mailto:sepikpt@gmail.com)  
[deendayalport.gov.in](http://deendayalport.gov.in)

\*\*\*\*\*  
**By Registered AD**

No: HD/WK/1078/2022/ OJ 7/ Dredging/ Env/ 610

Date:21/12/2022

To,  
Prof. Balaji Ramakrishnan,  
Department of Civil Engineering,  
Indian Institute Of Technology – Bombay,  
Powai, Mumbai – 400 076, India.  
Tel: +91-22 2576 7321; Mobile: +91-98198 57321  
E-mail: [rbalaji@civil.iitb.ac.in](mailto:rbalaji@civil.iitb.ac.in), [rbalaji@iitb.ac.in](mailto:rbalaji@iitb.ac.in);

**Sub: Appointment of “Independent Environmental monitoring while carrying out Capital dredging to check impact and take necessary measures at Oil jetty no. 7” – Work Order - reg.**

**Ref: (i) DPA's email dated 08/09/2022  
(ii) IITB letter dated 29/09/2022  
(iii) IITB letter dated 15/11/2022**

Dear Sir,

Kindly refer the above cited reference for the said subject.

Your Financial proposal dated 15/11/2022 for an amount of Rs. 8,70,000(18% GST extra) for the subject assignment has been accepted by Deendayal Port Authority on **Nomination Basis**.

**A. Scope of work**

- Monitor to ensure that no creeks or Rivers are blocked due to any activities at the project site and free flow of water is maintained.
- Dredging shall not be carried out during the fish breeding season.
- Dredging etc. shall be carried out in the confined manner to reduce the impacts on Marine environment.
- Dredge material shall be safely disposed in the designated area.
- Assist DPA officials in monitoring the shoreline during execution of dredging activity so as to ensure that shoreline is not disturbed due to dumping and assist the PMC for the dredging work in incorporating the details related to shoreline changes, if any, in the six-monthly monitoring report.

- (f) Independent monitoring to check the impact and ensure necessary measures are taken up on priority basis to check if any adverse impact is observed.
- (g) Organic pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.
- (h) Witness of collection for soil and water samples once in every month in each area of dredging in discussion with DPA and dredging contractor.
- (i) Witness the testing of soil samples from the material dredged by various dredger(s) for chemical and physical properties including specific gravity, bulk density and grain size distribution and sieve-analysis for grain size distribution.
- (j) Witness the following tests once in every month:
- (i) Sea water quality parameters viz. Temperature, Salinity, Density, Turbidity, Dissolved Oxygen, Chemical constituents of water and pollution would be measured to monitor water quality.
  - (ii) Toxicity test on dredge material to determine the quality of heavy metals.
  - (iii) Review of Soil and Water analysis reports.

## B. Financial Proposal

Sr.No.	Description	Rate per Month(Rs.)	Amount per 3 Months (Rs.)
1	Appointment of "Independent Environmental monitoring while carrying out Capital dredging to check impact and take necessary measures at Oil jetty no. 7"	2,90,000	8,70,000
	GST @ 18%		1,56,600
	<b>TOTAL</b>		<b>10,26,600</b> <b>(Rupees Ten Lakhs Twenty Six Thousand and Six Hundred only)</b>

## C. Terms and conditions

- i. Capital dredging activities and post project environmental reports including testing of soil/water samples related to Oil jetty no.7 will be carried out for about 3 months commencing from the date of issue of this Work Order.
- ii. For any further additional duration of dredging activity for which Environmental monitoring services are to be continued, DPA shall pay Rs. 2,90,000 excluding GST per month or part thereof on prorata basis for various works listed in the scope of work.
- iii. One Engineer with appropriate educational qualification with previous experience in Environmental monitoring /witness soil & water sample collection at dredging site and witness the testing of the samples in the local laboratory designated by DPA for 3 days every week.



- iv. The work of the Site Engineer shall be monitored by IITB so as to ensure that deliverables are met.

**D. Deliverables**

- (i) Assist DPA till the end of contract as per the scope mentioned- as and when required.
- (ii) DPA may provide accommodation/ residential quarters on chargeable basis as per availability and as per DPA norms.
- (iii) For monitoring dredging activity, collection of soil and water samples etc. boat and safety equipment facility shall be provided by dredging contractor.

**E. Payment Terms**

Payment for the above work shall be released by DPA on monthly basis or part thereof on prorata basis. The expenditure is chargeable to code:825/581/9348.

Please acknowledge the receipt.

**Authority: Concurred by FA&CAO under N/S no. 03/07 dated 30.11.2022 in file no. HD/WK/1078/2022 and approved by Chairman on 20.12.2022 under N/S no. 04/08.**

  
**Superintending Engineer (H&D)  
Deendayal Port Authority**

Copy to:

- (1) TPA to CE: - For Kind information of CE please.
- (2) A.O. (W/A)/ AAO(Pay): For necessary action.
- (3) XEN(H&D): For necessary action.
- (4) RAO
- (5) Labour Officer, Gandhidham.
- (6) AECOM- PMC: For kind information and necessary action.