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मुंबई पोर्टन प्राधिकरण
Mumbai Port Authority



उप संरक्षक का कार्यालय,
समुद्री विभाग, पोर्ट भवन, १ ला माला,
शूरजी वल्लभदास मार्ग, बॅलार्ड इस्टेट,
मुंबई : 400 001.
Deputy Conservator's Office,
Marine Department, Port Bhavan,
1ST Floor, Shoorji Vallabhdas Marg,
Ballard Estate, Mumbai - 400001.

No. DEMC/ EMC(HWAN)-01/2024/

To
Prospective Bidders

Sub : EMC(HWAN)-01/2024-

-Budgetary Quotation for Collection and Analysis of Harbour Water samples, Marine Sediment samples, Ambient Air samples and Noise quality monitoring in the Mumbai Port limit for a period of 3 years.

Mumbai Port Authority intends to engage an Environmental parameter monitoring laboratory having valid licence from Ministry of Environment & Forest and Climate Change (MoEF & CC) for Collection and Analysis of Harbour Water samples, Marine Sediment samples, Ambient Air samples and Noise quality monitoring in the Mumbai Port limit for a period of 3 years. The details of parameters to be tested are enclosed as Bill of Quantity (BOQ).

2. The laboratory/office of the bidder/firm shall be located within Municipal limits of Mumbai (or) Mumbai suburbs, Navi Mumbai, Thane, Kalyan.

3. You are requested to furnish the rates against each item and submit the sealed Budgetary Quotation for the same in the box provided at following address. The Budgetary Quotation may be submitted to –

The Harbour Master
Mumbai Port Authority
Port House, 1st Floor
Shoorji Vallabhdas Marg, Ballard Estate
Mumbai - 400 001.
Ph: (022)66564022

3. If any clarification is required, you are requested to contact on hm@mumbaiport.gov.in or kp.shingh@mumbaiport.gov.in

4. The Budgetary Quotation should reach the above address on (or) before 06.03.2024 @1500 hrs. The above information will be displayed on MbPA website under tenders.

DA: Bill of Quantity

Yours faithfully

DIRECTOR
ENVIRONMENTAL MANAGEMENT CE

SECTION A –HARBOUR WATER SAMPLES

SCHEDULE OF QUANTITIES AND RATES

Sr. No	Description	No. of Samples	Rate Per Sample (Rs.)	Amount (Rs.)
1.	Collection of Harbour Water Samples from 11 locations at High and Low water of Spring And Neap Tide (Total 22 samples per month) and carrying out analysis of following parameters once in a month. (i) Colour & Odour (ii)Turbidity (iii)PH (iv)DO (v)BOD (vi)TSS (vii)Oil & Grease (viii)Nitrate (ix)Nitrite (x)Ammonia (xi)Phosphate (xii)Petroleum Hydrocarbon (xiii) Polyaromatic Hydrocarbon (xiv) Fecal Coliform (xv) Bioassay Test & (xvi)Phenol	792 (22 x 36)		
2	Collection of Harbour Water Samples from 11 locations at High and Low water of Spring And Neap Tide (Total 22 samples) and carrying out analysis of following parameters once in three month. (i) Mercury (Hg) (ii) Cadmium (iii) Lead (Pb)	264 (22 x 4 x 3)		
3	Collection of harbour water samples from 4 locations along the navigational route of the channel at High and Low water of Spring And Neap Tide (Total 8 samples per month) and carrying out analysis of following parameters once in a month. (i)Colour & Odour (ii) pH (iii) Dissolved Oxygen (DO) (iv) Fecal Coliform (v) Sludge Deposit, Solid Refused Floating Oil, Grease & Scum.	288 (8 x 36)		

NOTE : Locations for Sr. No. 1,2 - (i)B.P.X.(ii)Ferry Wharf(iii)Kasara Basin(iv)Haji Bunder (v) Kerosene wharf (vi)Pir Pau (vii)Jawahar Dweep (viii)Gateway (ix)Sassoon dock (x) I.D. Lock Gate (xi) 12 B. I.D.

4.	Collection of Marine samples at 4 locations along the navigational route of the channel and carrying out analysis for the following parameters once in six months. Physical Parameter (A)(i) Light Penetration Biological Parameters (B1) (i) Chlorophyll (ii) Primary Productivity (iii) Phytoplankton (iv) Zooplanktons, (B2) (i) Benthic Meio (ii) Benthic Macro	24 (4 x 2 x 3)		
5.	Collection of Marine sediments at 4 locations along the navigational route of the channel and carrying out analysis for the following physio-chemical parameters once in six months (i) Texture, (ii) Total Organic Carbon (iii) Phosphorous (iv) Total Petroleum Hydrocarbon (v) Polyaromatic hydrocarbon, (vi) Zinc, (vii) Lead, (viii) Cadmium, (ix) Mercury, (x) Copper, (xi) Cobalt, (xii) Nickel (xiii) Iron (xiv) Chromium	24 (4 x 2 x 3)		
6.	Occasional Testing of Oil/ bilge water from Ship and polluted Oily Water Samples to check the matching of samples using F.T.I.R. or any other suitable method and submitting results. Notes: i) MbPT will collect samples and handover to Contractor. ii) Contractor can arrange to get these samples tested in other laboratories. iii) These tests are to be carried out as and when required. (This rate is based on M/s. Geo Chem's bill in 2018 escalated to present level.	18	825	
A	Total Amount for A Exclusive of GST			

Locations for Sr. No. 3,4,5 – Navigational channel (i) Off 2nd Chemical berth (ii) North Karanja (iii) Sunk Rock (iv) Off Middle Ground

SECTION B –AMBIENT AIR QUALITY AND NOISE QUALITY

SCHEDULE OF QUANTITIES AND RATES

Sr. No	Description	No. of Samples	Rate Per Sample (Rs.)	Amount (Rs.)
1.	Analysis of ambient air samples per month at two locations approved by Mumbai Port Trust including collection of samples by fine dust sampler (FDS) & respirable dust sampler (RDS) for 24 hrs. for the following parameters i) PM 10 ii) PM 2.5 iii) SO ₂ , iv) NO _x v) CO for the period of three years.	72 Samples (2 x 36)		
2.	Noise Quality Monitoring in MbPT dock area at two location approved by MbPT, once in three months for the period of three years.	24 Samples 2 x 4 x 3)		
3.	Sampling and analysis of hydrocarbon (VOC's) samples in ambient air using methods for measurement of Air Pollution as per IS 5182 (Part 11) of latest edition from Second Liquid Chemical Berth, Pir Pau for the following parameters – VOC's as Benzene, Toluene and Xylene .One sample per month.	36 Samples (1 x 36)		
4.	Sampling and analysis of VOC as Benzene in ambient air per month one sample from each location at Yellow Gate Indira Dock and Orange Gate Prince's Dock (OGPD) (or) at locations as approved by Director (PCC), MbPT.	72 Samples (2 x 36)		
5.	Transportation of Machinery & technicians required for collection of samples for air, noise and VOC at designated location in Mumbai Port Trust premises from BPX (Ballard Pier) to Pir Pau (Mahul, Chembur) etc. complete as directed.	36 months		
B	Total amount for B exclusive of GST			
	Grand Total = A + B			

NOTE : Locations for Sr. No.1 (Any 2 out of 4) – (i) Ambedkar Bhavan,Blue gate, Indira Dock/B.P.X. building, (ii)Green gate, Indira Dock. **OR**

(i) Pir Pau, MbPT Fire Station, Mahul village, Chembur (ii) MbPA Hospital premises, Wadala.

Locations for Sr. No.2(Any 2 out of 4) – (i) Ship Breaking Yard at Darukhana, Reay Road. (ii)CME workshop at Mazagaon(iii) Hughes dry dock at Indira Dock (or) Blue gate, Indira Dock (iv)Orange Gate at Prince's Dock (OGPD).

Terms & conditions :

- Above tests are carried out as per mentioned frequency.
- The laboratory/office of the bidder/firm shall be located within Municipal limits of Mumbai (or) Mumbai suburbs, Navi Mumbai, Thane, Kalyan, Vasai, Virar, Panvel,
- MbPA will provide **boat facility free of cost** for collection of water and marine sediment samples.
- Laboratory and key personnel should be recognized by **Ministry of Environment and Forest (MoEF & CC)**.
- Detailed Reports and Summary report should be submitted by Authorised signatory in format acceptable to MoEF & MPCB in every month along with scanned copies in PDF format. Scanned copies of Consolidated reports are also to be submitted in PDF format.
- No material, services and workmen will be supplied by Mumbai Port Authority to carry out work.

7. in PDF format.

8. No material, services and workmen will be supplied by Mumbai Port Authority to carry out wor