



भारतीय समुद्रीय विश्वविद्यालय Indian Maritime University

(केन्द्रीय विश्वविद्यालय, भारत सरकार / A Central University, Govt. of India)
कोलकाता परिसर / Kolkata Campus

No. IMU-KC/Mechanical Lab/18-19

Date: 12.10.2018

Sub: Quotation for procurement of Mechanical Lab. Equipments at IMU-Kolkata Campus

Sealed quotations are invited for one following Mechanical Lab. Equipments for at IMU-Kolkata Campus:

Sl. No.	Equipment	Specification	Quantity
01.	To determine Hydrazine content of boiler water	Range 0-5 mg/ Ltr of Hydrazine.	01 Set
02.	Boiler water tests and kits as found in latest types of ships	Hardness Total LR- 0 – 50ppm Alkalinity P,M,OH - 0 to 2,400ppm Chloride - 0 – 3,000ppm Sulphite- 0 – 150ppm Phosphate - 0 – 80ppm pH – 0 to 14	01 Set
03.	Study sludges and scale deposit – Silica, volatile and non-volatile suspended matter	Range - 0 to 40 mg/L (ppm) SiO ₂ ; 0 to 800 mg/L (ppm) SiO ₂ Resolution - 1 mg/L (0 to 40 mg/L range); 40 mg/L (0 to 800 mg/L range)	01 Set
04.	To determine Absolute Viscosity and Kinematic Viscosity of Heavy oil, Diesel oil, Fresh Lubricating Oil & Used Lubricating oil by Red Wood Viscometer	220V,50 HZ,AC SUPPLY/50 ML capacity, rating-IP70	01 Set
05.	To determine the Flash Point of a given sample of Fuel & Lubricating oil	Semi automatic,220v, IP-34/ASTM D-93 & IS 1209-1978 Method B.	01 Set
06.	To determine water content of used Lubricating oil	Range 0 - 10% Range 0.02 - 1.0% Range 200 - 10,000ppm Range 0 - 20%	02 sets
07.	Conduct spot test for L.O and analyse result	Spot testing kit ppm of range from 15 to 30	01 Set
08.	To determine the percentage of CO ₂ . CO and Oxygen in the flue gases	CO – 0.2000 ppm (IR Sensor) CO ₂ – 0.1000%(IR Sensor) O ₂ – 0.25% (Electrochemical Sensor)	01 Set

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Sl no	Reagent Required	Qty
1	Wanklyn's soap solution	01 Ltr
2	Phenolphalein indicator	01 Ltr
3	Sulphuric acid (N/50)	01 Ltr
4	Dropper (Small+Big)	15 Nos. + 15 Nos.

Bidders are requested to submit their rates in the following format:

Sl. No.	Name of Items	Quantity	Rate per unit (in Rs.)	Applicable Taxes per unit	HSN Code	Total rate per unit (including taxes)	Total amount (Rs.)
A	B	C	D	E	F	G = D+E	H = C x G

Terms & Conditions:

- Bidders are to quote their rates strictly as per above format in their letterhead with official stamp and signature.
- The rates quoted should be inclusive of delivery but excluding Taxes which should be stated separately as mentioned above.
- The bidder should submit the GST certificate.
- Items should be delivered preferably within 10 days of placing order.
- Rate quoted should be valid for a period of two months from the last date of submission of quotation. IMU-KC may place further orders during the said period depending on requirements.
- Bidders are requested to contact Shri Tapas Kr. Barua, Section-In-charge (Lab.) of IMU-KC during 10:00 Hrs & 16:00 Hrs on working days for any clarification regarding the required materials.
- Submission of multiple bids by a single firm will lead to rejection of the bids and IMU-KC may black list such firms from future participation.
- Last date of submission of quotation is 29.10.2018.
- The quotation is to be submitted in sealed envelope clearly subscribing "Quotation for Mechanical Lab Equipments".
- The envelope should be addressed to the Director, Indian Maritime University, P – 19 Taratala Road, Kolkata — 700 088 and is to be deposited in tender box kept at Dy. Registrar's office (1st floor, Room No. 130) or to be sent by post within due date.
- Payment will be made through Bank Transfer after successful delivery of the items and their acceptance.
- The envelopes are to be sealed properly with gum and not by stapler pin.
- The order can be split, if felt required, by IMU-KC.
- Expiry date or for best use before due dates of chemicals, if any, should have at least 1 year validity.
- Preference will be given to bids with equipments/items with greater warranty period.


O.I.C. - Purchase