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मुंबई पोर्ट प्राधिकरण
Mumbai Port Authority

MECHANICAL &
ELECTRICAL ENGINEERING
DEPARTMENT
NIRMAN BHAVAN, ABB
House, 2nd FLOOR, Ballard
Estate,
MUMBAI – 400 001 INDIA.



MEED/Survey launch/2974

20-09-2024

From:
The Executive Engineer,
MEED, Mumbai Port Authority,

To:
The Firms.

Sub: Budgetary Quotation for Hiring of One Steel Hull Survey Launch with all survey equipment along with supply of hydrographic surveyor and Manning Crew for carrying out Bathymetry Survey of Mumbai Port Authority for a Period of 3 Years.

Dear Sir,

- 1) Please submit your Budgetary Quotation for subject work as per Bill of Quantities (BOQ) and in accordance with the Scope of Work and Terms and Condition duly filled, signed and stamped each page of this document.
- 2) Before submitting the quotation, firms are requested to visit the similar vessel berthed at MbPA site to assess the scope of work. This will help Tenderers to make proper assessment of the work. For any queries or for inspection, the undersigned may be contacted Shri Ajay Tambule Executive Engineer on 022 6656 6625/6637 (O) or +91 98692 62629(M) or send mail to ap.tambule@mumbaiport.gov.in or sj.shah@mumbaiport.gov.in
- 3) It may be noted that Mb.P.A. shall not reimburse any cost incurred by the tenderer towards the preparation and submission of the quotation.
- 4) No erasure, overwriting or corrections of the rates are permissible. The duly filed, signed and stamped physical copy of the bid to be submitted in a sealed envelope with the title of the subject work at ABB House Bhagat Singh Road, Ballard Estate Fort , Mumbai – 400 001 duly on or before 11.10.2024 by 1600 hours or through mail.
- 5) The Scope of work, Terms and Conditions of the contract which are applicable is attached herewith for your information.

Regards,

D.A.:- i) Scope of Work
ii) Conditions of Contract
iii) Schedule of Rates

A.P. Tambule
Executive Engineer
MEED, MbPA

MUMBAI PORT AUTHORITY
MECHANICAL & ELECTRICAL ENGINEERING DEPARTMENT

The brief Scope of Work

1. SCOPE OF WORK & TECHNICAL INFORMATION

The contract involves supply of **One Steel hull Survey Launch on hire with required manpower and** fitted with required survey equipment for carrying out Bathymetry Survey in Mumbai Port Authority Port Limit and in Mumbai harbor during all weather conditions as per the requirement of the Port. The working hours will be normally limited to 9 hours in a day within 7 AM to 7PM, but sometimes may be operated more than 09 hours and limited to 12 hours for a period of maximum 30 days in a year without any additional payment. The vessel shall not be used on Sundays during contract period unless it was required by MbPA based on survey requirements.

2. TECHNICAL SPECIFICATIONS OF SURVEY LAUNCH PROPOSED FOR HIRING

NAME OF THE WORK : "Hiring of One Steel hull Survey Launch with Manning Crew, operation & Maintenance for Bathymetry Survey for Mumbai Port Authority for a Period of three Years.

Period of Contract : 03 years

3. Technical Details

A Technical specification of Survey Equipment For carrying out Bathymetry Survey

- a. Certified Hydrographic Surveyor- 1 no. with minimum 5 year experience in Bathymetry survey with Hypack Software
- b. A single beam dual frequency survey Echo sounder of type Odom Echotrac MKIII or Atlas DESO 30 or equivalent with transducers having high frequency of 210 KHZ and low frequency of 33 KHZ with high resolution paper recording with all necessary accessories with echo roll / digital recording system , software and fixing the same in the survey vessel and along with necessary bar check accessories for daily calibration of echo sounder.
- c. One Motion Sensor (Heave, Roll, Pitch) of SMC 108 or equivalent as compatible with all necessary accessories for data interface to be fixed on the survey vessel.
- d. One Modular DGPS Receiver with Beacon with following specification:
 - o Dual Frequency 2-channel MSK Beacon DGPS Receiver with external Two geodetic antennas for heading
 - o Minimum 70 Channel DGPS Receiver
 - o DGPS Receiver Should be capable to track L1& L2 GPS frequencies simultaneously
 - o DGPS Receiver Should be 4-channel SBAS Receiver
 - o Positioning Accuracy should be less than a meter with Beacon/SBAS
 - o DGPS Receiver should have dedicated AC (230V AC) & DC (10-30V DC) Ports to switch it "ON"

- DGPS Receiver must be having Web User Interface to configure it by Using Ethernet Cable as well as configuration keys at display to configure the DGPS
- DGPS Receiver Must have provision of at least 02 Nos. RS 232 Output ports
- DGPS Receiver should output NMEA 0183 string upto 20 Hz to interface with other devices/software
- DGPS Receiver must be capable to output 1 PPS data.
- e. One Desk top computer for survey with following specification
 - i) Processor i7 8th generation or above,
 - ii) Ram 16GB,
 - iii) Storage 512 GB SSD + 1TB HDD
 - iv) Graphic card 4 GB Nvidia,
 - v) Operating system Windows latest version
 - vi) 2 Monitors 23.8 inch or above, 1 monitor for Master of vessel for navigation with fixed screen display & 1 monitor for surveyor with flexibility in screen display.

The desktop computer shall have adequate comports and shall be compatible with connecting and necessary interfacing with the survey equipment and survey software.

- f. Latest Hypack Software with one Hardlock (Survey + Processing)
- g. One Heading Sensor (Gyro) with all accessories and to be interfaced with survey system for heading data
- h. Periodical Calibration of all survey equipment
- i. UPS (Uninterrupted Power supply) 1.5KW 400V of APC make or equivalent with in-built battery and all accessories to be fixed inside survey vessel
- j. Adequate power supply for the survey equipment

NOTE: All above equipment with valid calibration certificate. Further the contractor shall be responsible for operation and maintenance of the above equipment and shall be kept operational during the entire contract period at his own cost.

B. TECHNICAL SPECIFICATIONS OF HULL & MACHINEARY FOR THE SURVEY LAUNCH.

Technical Details

- | | | |
|--------------------------|---|--|
| (i) Length (Overall) | = | not less than 16.5 mtrs. |
| (ii) Breadth (Overall) | = | not less than 4.6mtrs. |
| (iii) Depth | = | not less than 2.35 mtrs (Approx.) |
| (iv) Draft | = | maximum 1.5 mtrs. |
| (v) Speed | = | not less than 8 Knots |
| (v) Main Engines: | = | 02 Nos. Suitable Main Engine to achieve the above speed and maintained during contract period. |
| (vi) Generator | = | 2 Generator sets, each capable of taking 100% sea load independently or as per class requirements. |
| (vii) Propulsion System: | = | 02 nos. conventional Propeller coupled with diesel engine. |
| (viii) Battery Backup | = | For navigational Equipment & Emergency Light as per class requirement. |

- (ix) Accommodation, wheel House & Survey cabin = Steel Hull Survey vessel (Fully Air-conditioned cabin with complete glass panel for clear outside view) accommodating minimum 8 persons for survey.
- (x) Age of launch - Maximum 15 years old as on tender opening date
- (xi) Registration - I.V. Act.
- (xii) Class - Any Classification Society of IACS
- (xiii) Manning - As per approved Safe Manning Certificate M.S. Act (Sea/Harbour) manning/as per statutory body manning.
- (xiv) Communication & Navigation equipment (as per Class requirements)
Vessel Must have following equipment but not limited to
1. Multi-Channel VHF (Range 25 Miles) – 01 No.
 2. Multi-Channel Walkie-Talkies – 02 Nos.
 3. Marine Radar – 01 No.
 4. Magnetic Compass – 01 No.
 5. DGPS – 01 No.
 6. Binoculars – 01 Pair
 7. LSA & FFA - as per the M.S. / I. V. Act
 8. Anchoring Equipment – as per the Class
 9. Spot/Search Light (Range 200 Mtrs)
 - 01 No
 10. Navigational Lights – As per the Rules
 11. AIS Transponder Type „B“
- (xvi) Fuel tank capacity : About 5000 Liters
- (xvii) water tank capacity - : About 500 Liters
- (xviii) All other essential machinery and equipment shall be installed as per the class requirement for safe operation of the vessel inside the harbor area and within the port limit.
- (xix) Dry docking - Completed as per Class requirement.
- (xx) Carrying Capacity shall be not less than 12 persons, including the crew members;
- (xxi) Air Conditioned wheel house, Survey Cabin & Accommodation;
- (xxii) Adequate capacity of UPS for the Survey equipment and Computers

D. HULL REQUIREMENTS:

- (a) Survey launch to be registered under I.V. Act, and may be manned as per the approved safe manning Certificate MS Act (Sea / Harbour) manning and classed with any IACS for all weather operations in the port limits;

- (b) Material shall be Steel
- (c) Heavy duty Rub Rail (Fendering) in the way of hull;
- (d) Grab / Safety Rails of Stainless Steel;
- (e) Side windows shall be existing with toughened glass;
- (f) Landing Space for Embarking and Disembarking;
- (g) Two Anchors
- (h) Power Mooring Winch facilities;
- (i) Shall have Non Skid Deck;
- (j) Interior survey cabin & wheel house cabin shall have stainless steel rails;
- (k) Cleats;

4. INVENTORY

The following stores and inventories shall be maintained on board vessel but not limited to.

a) Mooring rope (50 mm)	100 Mtrs.
b) G.I.Bucket (20 Ltrs.)	2 Nos.
c) 3 cell torch	2 Nos.
d) Scrapers	6 Nos.
e) Helmet for crew	10 Nos.
f) Chipping Goggles	6 Nos.
g) Assorted brushes	2 Nos.
h) Roller Brushes	6 Nos.
i) Toolkit for E/R	1 set
j) Adjustable Spanner 24"	1
k) Adjustable Spanner 15"	1
l) Screw Driver 6", 9" & 12"	1 each
m) First Aid Box	1
n) Hand lamp with 25 m cable	2 nos.

5. PANTRY ARTICLES :

a) Water filters (RO type)	1 No.
b) Tea cup (Bone Chine)	6 Nos
c) Towel	6 Nos.
d) Steel glass tumbler	6 Nos.
e) Tea spoon & Table spoon	6 Nos. each
f) Tray	1 No.
g) Electric Kettle	1 No.
h) Stainer (Tea filter)	2 Nos.
i) Hot Plate	1 No.

5.LSA AND FFA REQUIREMENTS:

- i) Life Saving Appliances (LSA) for 12 persons as per class requirements;
- ii) Fire Fighting Appliances (FFA) as per class requirements;
- iii) Aldis Lamp operating under mains and battery power;

6. The contractor has to comply all the guidelines of DG shipping pertaining with operation of the launch.

GENERAL CONDITIONS OF CONTRACT (GCC)

1. CARE AND DILIGENCE:

The Contractor shall exercise all reasonable care and diligence in the discharge of all technical, professional and contractual duties to be performed by them under this contract and shall be fully responsible to the Chief Engineer/ Chief Mechanical Engineer for the proper, efficient and effective carrying out of their duties.

2. COMPLIANCE WITH STATUTORY REQUIREMENTS:

The Contractor shall at all times during the continuance of the contract comply fully with all existing Acts, Regulations and bye laws including all statutory amendments and re-enactment of State or Central Government and other local authorities and any other enactments and acts that may be passed in future either by the State or the Central Government or the local authority, including Indian Workmen's Compensation Act, Contract Labour (Regulation and Abolition) Act, 1970 and equal Remuneration Act, 1976, Factories Act, Minimum Wages Act, Provident Fund Regulations, Employees Provident Fund Act, Merchant Shipping Act, and other maritime legislation/ rules/ regulations, the Dock Worker's Act-1948 etc., in as far as they are applicable to this contract. The Contractor shall indemnify and keep the Board indemnified in case any proceedings are taken or commenced by any authority against the Board for any contravention of any of the laws, bye laws or scheme by the Contractor. If as a result of contractor's failure, negligence, omission, default or non-observance of any provisions of any laws, the Board is called upon by any authority to pay or reimburse or required to pay or reimburse any amount, the Board shall be entitled to deduct the same from any moneys due or that may become due to the Contractor under this contract or any other contract or otherwise recover from the Contractor any sums which the Board is required or called upon to pay or reimburse on behalf of the Contractor.

Notwithstanding the contractual obligation the Board shall be entitled to all protections and defense under the provisions of the Major Port Trusts Act, 1963/ The Major Port Authority Act 2021 and the Indian Ports Act 1908 including any amendments / changes as may be incorporated.

3. MAINTENANCE AND OPERATION OF VESSEL:

- a) The Vessel shall during the hire period be for all purpose at the disposal and control of the Chief Engineer/Chief Mechanical Engineer/representative of MbPA. The Contractor shall maintain the Vessel, in efficient operating condition and in accordance with good commercial maintenance practice. All the statutory certificates and class certificate shall be maintained valid during the contract period.
- b) The Contractor shall from time to time during the hire period replace such items of equipment as shall be so damaged or worn as to be unfit for use. The Contractor is to carry out all repairs or replacement of any damaged, worn or lost parts or equipment be affected in such manner (both as regards to workmanship and the quality of materials) as not to diminish the value and efficiency of the Vessel.
- c) If the Chief Engineer/Chief Mechanical Engineer/representative of MbPA has reason to be dissatisfied with the conduct or efficiency of the Master, Officer or Crew, the Contractor on receiving particulars of the complaint, promptly investigate the matter and if necessary shall make a change in the appointment.
- d) The Master of the Vessel will carry out all orders of Chief Mechanical Engineer/ Chief Engineer or his representative and the Master and Chief of vessel to maintain the logbook in English, accessible at all times.

4. SUPPLY OF FUEL, FRESH WATER & ELECTRICITY:

- (a) Fuel remaining on board on the day of commencement of contract (hire) will be paid for by the Board at prevailing rate in Mumbai. Fuel remaining on board on termination of contract will be paid for by the contractor at rates prevailing in Mumbai.
- (b) Fuel for running of the Vessel will be supplied by Port Authority on Port account at the rated quantity per hour. Such supply will be made periodically

asper the requisition of the Contractor. At least 10 days notice for supply of fuel to be given. In case the fuel consumption exceeds the quoted quantity, then the cost of excess fuel shall be recovered from the monthly bills of the firm. Fresh water for the consumption of vessel shall be supplied by MbPA free of cost. The Vessel will be directed to receive the same at the designated berths.

- (c) Free electricity shall be supplied to the Vessel while they are secured alongside berths.
- (d) In the event of any difficulty faced by MbPA for supply of fuel, the Contractor will be requested to supply the same to the Vessel and the cost will be reimbursed at actual cost including transport charges on production of supporting documents plus GST at the prevailing rate.
- (e) A Log Book will have to be maintained by the Master or Chief Engineer of the Vessel for day to day consumption, R.O.B., soundings of tanks etc. which has to be produced to the Chief Engineer/Chief Mechanical Engineer/representative of MbPA for verification periodically and a weekly report to be submitted on the same.
- (f) **Calculation of Running hours and Fuel consumption:** All Engines must be fitted with running hour (R/H) meters. Daily and monthly R/H of engines shall be calculated on the basis of R/H meter reading. All the R/H meters shall be maintained in good working condition throughout the contract period. And contractor shall ensure that R/H meters are in working condition all the time. R/H meter must be calibrated on regular basis during tenure of contract.
- (g) Any misappropriation of fuel supplied by the Board will be viewed seriously and contract liable to be cancelled at contractor's cost and firm shall be blacklisted for a period of two years from participating in any tender of Mumbai Port Authority.
- (h) MbPA shall reserve the right to terminate the contract with one month advance notice.

5. ASSIGNMENT AND SUBLETTING:

The contractor shall not be permitted to sublease the work nor assign the right and interest in these presents nor assume a fresh partner or partners nor dissolve the partnership at present existing between him in reference to this contract without the written permission of the Chief Engineer/ Chief Mechanical Engineer/MbPA and such consent, if any, given shall not relieve the Contractor from any liability or obligations under the contract and he shall be responsible for the acts, defaults and neglects of any sub-contractor or his servants, agents or workmen as full as if they were the acts, defaults or neglects of the Contractor provided always that the provisions on manning/ labour or a piecework basis shall not be deemed to be a sub-letting under this clause.

6. RATES AND AMOUNTS:

The rates and amounts submitted by the tenderer shall be gross rates and amounts inclusive of all taxes & duties, with GST, which shall be paid by Mumbai Port Authority at prevailing rates. Any new tax that may be levied during the execution of contract will be reimbursed by Mumbai Port Authority on submission of required proof of documents. Any variation in the taxes during the pendency of contract will be adjusted in either way, for the same the base date will be taken as the last date of submission of the bid.

7. PERIOD OF CONTRACT AND PAYMENT:

The contract shall remain valid for a period of three years from the date of commencement of service. However, Mumbai Port Authority reserve the right to extend the contract beyond three years at the same rates, terms and conditions for a reasonable period to meet operational requirement on mutual consent. Payment shall be made at the end of each calendar month, after

submission of daily check and fuel consumption statement for the month. For this purpose the contractor shall maintain daily deck and engine log books, the format of which should be submitted for approval prior to commencement of the contract. The bill shall be submitted in duplicate. Payment shall be made within 30 days from the date of submission of bill clear in all respects along with work done report duly certified by MbPA. However if payment of bill is delayed beyond 30 days for any reasons, the contractor shall not be entitled for claiming any interest. Payment shall be made in Indian Rupees only through bank transfer i.e., RTGS/ e-transfer.

8. INCOME TAX DEDUCTION:

Deduction of Income Tax shall be made from any amount payable to the Contractor as per the relevant provisions of the Income Tax Act.

9. INSURANCE:

- (a) During the hire period, the Vessel shall be kept insured by Contractor at his expenses against P & I, Marine Hull & Machinery and Marine Labour Certificate. Apart from these two insurances if the Contractor feels to take any other insurance cover, he is free to take at his own cost.
- (b) In the event of any act or negligence on the part of the Contractor which may vitiate any claim under the insurance herein provided, the Contractor shall indemnify the Board against all claims and demands which would otherwise have been covered by such insurance.
- (c) If the Vessel is required by Mumbai Port Authority for deployment beyond the Port limit for salvage operation or any other operation for which additional insurance is required to be taken, the Contractor may cover the Vessel with insurance and Port Authority will reimburse the additional amount paid by the Contractor for such insurance. Also if the vessel demands additional manpower as per safe manning certificate issued by DG Shipping, then the cost of the additional manpower will be reimbursed as per actual and reasonable.

10. LAY UP OF THE VESSEL OR REPAIR & MAINTENANCE / DRY DOCKING REPAIRS:

- (a) The Contractor shall be allowed laying up of the vessel for Repair and Maintenance / Dry Docking Repairs during the currency of the contract for upkeep of the vessel during monsoon period. Time up to 21 days will be allowed for Dry- Docking 01(one) time during the entire contract period of three (03) Years without levying Penalty and without payment of hire charges.
- (b) In case Contractor wants to lay up the vessel for dry docking /major repairs, then it should be planned accordingly so that the vessel should be available for survey during non-monsoon season i.e. October to May.
- (c) During the Sundays hire rates will not be paid. However, in case the launch is required to be used on Sunday by Mumbai Port Authority, payment shall be made on pro rata basis.
- (d) During the contract period when vessel is out of commission with permission from Chief Mechanical Engineer/ Chief Engineer for maintenance and repairs at Contractor's request other than the Sunday, the contractor shall not be paid hire charges for that particular period.
- (e) Normally the vessel shall be required to be ready for operation at one hour notice at the beginning of the shift. If contractor fails to make the vessel ready for survey, the entire period for which vessel was idle after last survey till her coming back for survey shall be treated as lay up of vessel for breakdown repairs and no charges shall be paid.
- (f) For late reporting to duty after one hour, the vessel shall be declared out of commission for the day.
- (g) If the Vessel is declared as out of commission due to fault of Contractor for any reason a period or for a day by Chief Engineer/Chief Mechanical Engineer/ Representative of MbPA no charges will be paid for that period or day.
- (h) In the event of any deficiencies on the part of crew, availability of the stores/fuel, break down of machinery or for damage of hull and other accidents to the Vessel due to the fault / negligence of the Contractor, no charges shall be payable.

11. SPEED TEST:

(a) The firm shall carry out speed test at the time of commencement of contract in presence of surveyor of any classification society and Mumbai Port Authority representative and also to produce the certificate. All the expenses towards carrying out the speed test shall be on the account of contractor, however facilitation of such speed test shall be provided by the Mumbai Port Authority at free of cost.

12. TERMINATION OF CONTRACT:

(i) The MbPA reserves the right to terminate the contract by giving 01(one) month notice to be contractor.

(ii) During the contract period if the performance of the vessel in the manner in which they are operated is found to be unsatisfactory or if the vessel remainunavailable for a period of more than 60 days in any continuous spell within the contract period or if any major equipment of the vessel remains inoperative continuously for a period beyond 30 days and thereby renderingthe vessel inoperative for the purpose of deployment then the MbPA shall have the full liberty to terminate the contract by giving one month notice in writing to the contractor. Performance Security Depositshall be forfeited and BG shall be en-cashed. Also the firm shall be debarred for two years from participating in any future tenders of MbPA.

13. Penalty: If the Vessel with all survey equipment is not available for the Survey, penalty will be levied from the time and date of such unavailability excluding Sundays in addition to nonpayment of hire charges:

From the time and date of 15% of hire charges per day or part thereof.such non-availability for survey upto 14 days

15 to 21 days 30% of hire charges per day or part thereof.

Beyond 21 days 50% of hire charges per day or part thereof.

DRY-DOCKING PENALTY:

(i) From the time and date of such non-availability due to Dry docking up to 21 days –No Penalty and no hire charges.

(ii) Beyond 21 days & up to 36 days-Levy of penalty at 15% of hire charges per day or part thereof in addition to non-payment of hire charges.

(iii) Beyond 36 days & up to 60 Days – Levy of penalty at 50% of hire charges per day or part thereof in addition to non-payment of hire charges.

Under any circumstances, if the vessel is not available beyond sixty(60) days , further extensions may be allowed with levy of penalty at 100% of hire charges per day or part thereof or the contract is liable to be terminated.

In case of Reduction of Speed and non-availability of stipulated speed as per the tender, the daily hire charges shall be reduced by 5% for every 1 knot reduced speed till the stipulated speed is achieved. However, if the speed of the boat falls below 06 knots formore than 15 days continuously, MbPA reserves the right to terminate the contract.

In case of termination of the contract, due to fault of contractor, Performance Security Deposit shall be forfeited and BG to be en-cashed. Also the firm shall be debarred for two years from participating in any future tenders of Mumbai Port Authority.

14. Other Terms and conditions of contract:

- (a) The contract involve supply of one survey launch as per broad specification listed below with full crew, for operation mentioned above with all provisions and all stores including lubricants. Only fuel, fresh water and shore power supply shall be on MbPA account.
- (b) All operational cost including wages, allowances, victualing, insurance (Personal, Hull and protection and indemnity) will be contractors account.
- (c) The contract will commence and terminate at Mumbai Port.
- (d) On the date of commencement of contract, the survey launch shall be staunch, strong and water tight and shall have completed all necessary surveys of the class.
- (e) The survey launch liable to light and buoyage dues will be exempted for charges payable to port during the period of higher.
- (f) A joint survey will be carried out at Mumbai Port before the survey launch are accepted for service in the Port and on terminations of the contract to determine its conditions. On hire/ off hire survey to be carried out in presence of third party at the cost of tenderer. ROB in terms of fuel only shall be adjusted during on hire/off hire survey during the contract period and at the end of contract with MbPA. The contractor shall have to fit calibrated FO flow meter and RH Meter to measure fuel consumption and running hours accurately.
- (g) Mumbai Port Authority will not be responsible for any damage suffered by survey launch due to failure of the launch or error of launch masters and crew.
- (h) The tenderer shall submit the soft copy of survey, etc. along with Echo Sounder print outs, etc.
- (i) The Tendered shall submit the details of proposed launch to be deployed in the enclosed format.

TECHNICAL SPECIFICATION OF VESSEL(Proposed):

1. Name of the Vessel :
2. Official No. :
3. Classification Society :
4. Gross Registered Tonnage :
5. Net Registered Tonnage :
6. Year of Built :
7. L.O.A. :
8. Breadth (mld) :
9. Depth (mld) main hull :
10. Draft (max) :
11. Speed :
12. Flag/Nationality :
13. Port of Registry :
14. Main Propulsion Engines : Make :
BHP :
15. Propulsion & steering System :
16. Auxiliaries : Total no of DG sets on board: Rating
of each DG set in KVA: Total shipload in KW:
17. Fuel Capacity :
18. Fresh Water capacity and Consumption per day :
19. Communication equipment (Specify each equipment) :
20. Navigation Equipment (Specify each equipment) :
21. Manning : (As per requirement of statutory
authority)

22. Consumption of fuel per Hour: For each Main Engine and DG Engine.

Percentage of MCR	Each Main Engine (in liters per hour)	Each DG engine (in liters per hour)
100%MCR		

(The Contractor shall have to submit engine Manufacturer/OEM's Technical data sheet indicating power and fuel Consumption per hour at various loads for main engine and DG engine with the offer)

Signature of Contractor with Seal

MUMBAI PORT AUTHORITY
MECHANICAL & ELECTRICAL ENGINEERING DEPARTMENT

Sub: Hiring of One Steel Hull Survey Launch with all survey equipment along with hydrographic surveyor and Manning Crew for carrying out Bathymetry Survey of Mumbai Port Authority for a Period Of 3 Years.

Schedule of Rates;
HIRING CHARGES FOR SUPPLY OF ONE SURVEY LAUNCH

Operation During Oct-May (8 months) in each Year

Sr. no	Quantity no. of days	Description of work	unit	Rate per day in Rs	Total cost In Rs
1	480	Supply of One Steel Hull Survey Launch duly providing and fixing of all survey equipment along with a hydrographic surveyor, Manning Crew, etc. including carrying out Bathymetry Survey as per specifications or as directed by Mumbai Port Authority for a period of 8 months in a year in the total Period Of 3 Years.	days		
2	150	Stand-by charges of survey Launch with survey equipment when there is no survey work is to be carried out but men power are attended as stand by on the Launch	days		

		Total			
		Add: GST@-----			
		Total Cost for three years inclusive of all taxes, duties, GST, etc.			

(Say Grand Total Rupees _____ only.)

Note: During Standby, the survey launch shall be berthed at designated place with requisite man power so that in case of exigency, the survey work can be commenced with a notice period of 2 hrs.

Validity of offer: 90 days

Contract Period: 3 years.

We have noted all the terms and condition of contract in connection with above work and agree to execute the same in accordance therewith.

Contractor's Signature

Name: -----

Address: -----

Seal -----

