



Ceylon Petroleum Corporation

TIME CHARTER OF A VESSEL FOR MAINTENANCE AND EMERGENCY RESPONSE WORK CONNECTED WITH THE SINGLE POINT BUOY MOORING (SPBM) FACILITY

B/ 18 /2020

SECTION 1 – INSTRUCTION TO BIDDERS (ITB)

1.1 Introduction

- 1.1.1 The Chairman, Cabinet Appointed Procurement Committee (CAPC) on behalf of the Ceylon Petroleum Corporation (hereinafter referred to as CEYPETCO) invites sealed bids from eligible and qualified bidders for the Time Charter of a vessel for Maintenance and Emergency Response Work connected with the Single Point Buoy Mooring (SPBM) installed off-shore Colombo Harbour for Four (04) years period commencing from 1000 hrs on 30.04.2020.
- 1.1.2 The intended Service Period is Four (04) years with the option to extend further by maximum of Four (04) years in full or in part as determine by CEYPETCO with the approval of the Government of Sri Lanka.
- 1.1.3 The bidding will be conducted through International Competitive Bidding (ICB) Procedure.
- 1.1.4 Interested eligible bidders may obtain further information from Deputy General Manager, Technical Services and Corporate affairs Function of Ceylon Petroleum Corporation [Email: dammika@ceypetco.gov.lk] and inspect the Bidding Documents at the address given below from 0900 hrs to 1500 hrs on working days.

1.2 Issue of Bidding Document

- 1.2.1 A complete set of Bidding Documents may be purchased on working days between 0900 hrs to 1500 hrs (Sri Lanka Time) up to 29.05.2020 by interested bidders on submission of a written application to the address below and upon payment of a non-refundable fee of Rupees 10,000/= . The method of payment will be by a Bank draft, purchasing cheque written in favor of Ceylon Petroleum Corporation acceptable to CEYPETCO or by cash to be paid to the Cashier/Shroff of CPC.

The address referred to above is:

**Manager Procurement & Stores
Procurement & Stores,
Ceylon Petroleum Corporation,
01st Floor,
No. 609, Dr. Danister de Silva Mawatha,
Colombo 09, Sri Lanka.
Tel: 0094 11 5666225, 0094 11 5455330
Fax: 0094 5455424**

1.3 Documents and Details to Accompany the Bid

1.3.1 All Bids should contain adequate particulars as required under the Bidding Document. Failure to furnish the following documents and details before the closing of Bids may result in the Bid being rejected. All documents shall be furnished in English Language.

1.3.1.1 Bids duly completed according to the format of the Offer Sheet in the Schedule B (Format of Offer) should be submitted together with the duly completed and certified declaration form in Schedule A: Form of Bid.

1.3.1.2 Detailed Bid with time charter rate in US Dollars per day for the period of the contract (Please see Section 2– Sub Clause 2.5), the consumption of fuel at modes of operation as specified in Section 2 – Sub Clause 2.6 and the date of availability of vessel at Colombo shall be submitted by the Bidder.

1.3.1.3 Bidder shall indicate in the Bid:–

- a) Ownership of the vessel with documentary proof including purchase agreement if any.
- b) Whether Bidder is a Charterer by demise of the vessel (with signed copies of relevant Charter Parties).
- c) Whether Bidder is the Manager of the vessel with documentary proof.

1.3.1.4 Specifications of the vessel offered, together with all certificates to establish that the vessel offered conforms to the specifications stipulated in 'Section 3: Specifications of the Vessel'. All questions of the offer sheet must be answered without any amendments or deletions to the items or CEYPETCO requirements/ specifications mentioned therein and submitted with the Bid.

1.3.1.5 Valid certificate “FORM PCA 03” issued by Registrar of Public Contract in terms of the Public Contract Act No. 3 of 1987

1.3.1.6 Valid certified copies of all certificates required as per item 10A of ‘Schedule B: Format of Offer’ and general arrangement drawings of the vessel shall be submitted along with the Bid. Certification of validity to be by representative of classification society who shall have full time membership of International Association of Classification Societies (IACS) in which vessel is registered as referred to in item 9A of ‘Schedule B: Format of Offer’.

1.3.1.7 The Copies of the Memorandum and Articles of Association of the Company certified by the Registrar of Companies or a valid partnership agreement as the case may be of the party who is the ship owner /demise charterer of the vessel offered and the signatory to the charter party.

If the bidder is participating in the capacity of and representative, agent, ship broker, ship manager of a foreign ship owner/demise charterer should provide valid proof document to establish his authority to act on behalf of the principal. The proof of documents such as Board Resolution of the company or the consent of all the partners in the partnership as the case may be in each of these cases shall be submitted along with the bidding documents. The Charter Party shall be signed only with the owner or Demise Charterer or Manager of the vessel.

1.3.1.8 The Bidder shall submit a Board Resolution of the company or the consent of all the partners in the partnership as the case may be authorizing the signatory to sign;

(a) the bid documents and

(b) the charter party in case their bid is accepted by the CEYPETCO.

1.3.1.9 The audited final accounts for the three financial years commencing from 2015 including those of the Principal (if the Bidder is not the Owner) and name of three (03) banks or other financial establishments and the company lawyers if available, from whom reference could be obtained shall be submitted by the bidder described sub clause 1.3.1.6 above.

1.3.2 Required Information and Documents Pertaining to Local Agents

In the case where a Bidder uses a local agent(s) the Bidder shall furnish all the following information/documents pertaining to their local agent(s), with their Bid/proposal.

a) The name and address of the local agent(s).

b) The year of registration of the business of the local agent(s).

c) The registration certificate according to Public Contract Act of No. 3 of

1987, (a certified copy).

- d) A certified copy of the audited accounts of the local agent(s) for any one of the two financial years immediately preceding the date of submission of Bids or proposals, audited by an independent external auditor in accordance with the Sri Lanka Auditing Standards together with the auditor's report confirming that the accounts were prepared in accordance with the Sri Lanka Accounting Standards.

and

- e) All details of commissions or gratuities, if any, paid or to be paid by the Bidder to the local agent(s) connected with or relating to the Bid or proposal up to contract execution if the Bidder is awarded the contract, including any success fees payable.

Special Note:

*In the case where a Bidder uses a local agent(s), the **Bid/proposal will be rejected if.***

- a) *The Bidder fails to furnish any of the information specified in the Sub clause 1.3.2 of Section 1: 'Required Information and Documents Pertaining to Local Agents'.*
- b) *The accounts of the local agent(s) for any one of the two financial years immediately preceding the date of submission of Bids or they have not been audited by an independent external auditor in accordance with the Sri Lanka Auditing Standards, and*
- c) *The auditor's report does not confirm that the accounts of the local agent(s) have been prepared in accordance with the Sri Lanka Accounting Standards.*

1.4 Submission of Bids

- 1.4.1 The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the CEYPETCO shall be written in English Language. The officer who signs the Bid (authorised officer) should have proper authority from the respective Bidder or the Principle for signing all documents related to the Bid. The authority shall be in the form of a Board Resolution or documented decision of the partners in a partnership as the case may be.
- 1.4.2 Completed offer sheet ('Schedule B: Format of Offer') properly signed and sealed/stamped in each page will be treated as the main part of the Bid together with other details requested in Clause 1.3 in Section 1: 'Documents and Details to

Accompany the Bid' in respect of this Bid. In addition, all pages in all other documents submitted with the bid shall be initialled by the authorised officer of the Bidder.

- 1.4.3 All Terms and Conditions of the CEYPETCO Bidding Document and the Offer submitted by the Bidder will be an integral part of the BIMCO Supply Time Charter Party 2005 (Code Name: SUPPLYTIME 2005).
- 1.4.4 Bids shall be submitted in duplicate as per the conditions specified in this Bidding document at the address specified in Sub Clause 1.6 of Section 1. The Original and Duplicate of the Bid should be placed in separate envelopes marked 'ORIGINAL' and 'DUPLICATE' respectively. Both envelopes should be enclosed in one securely sealed cover and marked 'BID FOR TIME CHARTERING OF A VESSEL FOR MAINTENANCE AND EMERGENCY RESPONSE WORK CONNECTED WITH THE SINGLE POINT BUOY MOORING (SPBM) FACILITY – B/18/2020' on the top left hand corner with the statement 'DO NOT OPEN BEFORE 1400 hrs on 01.06.2020.

1.5 Period of Validity of Bids

Bids shall be valid for a minimum period of Hundred and Forty Five (145) days (i.e up to 23.10.2020) from the closing date of the Bid with the provision to extend if necessary. The bids valid for a shorter period will be rejected as non responsive.

1.6 Closing of Bids

Bids sealed and addressed as aforesaid shall be sent under registered cover to reach

Chairman/ CABINET APPOINTED PROCUREMENT COMMITTEE

Ceylon Petroleum Corporation

C/o Manager Procurement & Stores

Procurement & Stores,

Ceylon Petroleum Corporation,

01st Floor,

No. 609, Dr. Danister de Silva Mawatha,

Colombo 09, Sri Lanka.

Tel: 0094 11 5666225, 0094 11 5455330

Fax: 0094 5455424

Not later than 1400 hrs Sri Lanka local time on 01.06.2020. If the Bidders or their representatives choose not to send their bids under registered cover they could deposit such bid in the Bid Box provide for this purpose at the office of the **Manager Procurement & Stores**, in the above address.

Any Bid received after the deadline prescribed above will be rejected and returned

unopened to the Bidder.

1.7 Opening of Bids

Bids will be opened immediately after closing time at the address given in the Sub Clause 1.6 of Section 1 and Bidders or their authorized agents will be permitted to be present at the time of opening of Bids, if they so desire.

1.8 Bid Security

1.8.1 Bidders shall submit along with their Bid or prior to submission of their Bid, a **Bid Security** in the form of a Bank Guarantee as per format annexed (Please see 'Form A - Format of Bid Security' of the 'Schedule C: Standard Forms") for **US\$ 40,000** (United State Dollars Forty Thousand) from a commercial bank operating in Sri Lanka approved by the Central Bank of Sri Lanka (CBSL) or a Bank based in another country but confirmed by a Bank operating in Sri Lanka approved by the CBSL valid for **one hundred and seventy five (175) days** from the date of closing of the Bid **valid up to 22.11.2020**, with the provision to extend if necessary. **Bids submitted with Bid Security not in accordance with the given format of Form A of Section 8, shall be rejected.**

1.8.2 The Bid Security may be forfeited:

- a) if the Bidder withdraws the Offer after Bid opening during the period of Bid validity; or
- b) if the Bidder fails to accept the award within the stipulated time referred in Sub Clause 2.1.1; or
- c) if the vessel offered is found not conforming to the agreed bid specifications upon inspection prior to delivery by the representative/s nominated by CEYPETCO, or if the delivered vessel does not conform to the agreed Bid specifications
- d) if the Bidder does not accept the correction of the Bid price, pursuant to Clause 1.10 of Section 1; or
- e) in the case of a successful Bidder, if the Bidder fails within the specified time limit to:
 - i. sign the contract; or
 - ii. Furnish the required Performance Security.

1.9 Evaluation Criteria

1.9.1 Eligibility Criteria

1.9.1.1 The service provider should be a company/consortium duly registered in Sri Lanka or in any other country having excellent track records in the relevant field.

1.9.1.2 All of the following documents must be submitted with the Bid for the bid to be eligible for evaluation;

- i. Duly certified and signed "Form of Bid".
- ii. Duly certified and signed "Offer Sheet".
- iii. All documents and details to accompany the Bid as specified under sub clause 1.3 of the Section 1.
- iv. Bid Security in the format specified in the Form A under Schedule C.
- v. Documentary proof of authority for signing the Bid documents by the signatory of the Bid documents and documentary proof of authority required for any other requirements specified under this bidding document.

1.9.1.3 All pages of the Bid documents to be initialed by the authorized signatory to the Bid document.

1.9.1.4 The company or any member of the consortium should be free from any lawsuit(s) against the Company at present regarding the services offered by them.

1.9.1.5 The service provider shall be able to provide vessel(s) class with a member of IACS and possess valid ship's certificate and should have comprehensive valid insurance covers for the required services.

1.9.2 Technical Evaluation Criteria

- i. All technical Parameters and minimum requirements specified in the Bidding document have to be met by the Bidder.
- ii. Conformance to the minimum Time Charter period of Four (04) years with provision for extension of one (1) year in full or in part as determine by CEYPETCO.
- iii. Conformance to the Vessel Registration requirements of the Bidding document.
- iv. Ability of the Bidder to deliver the vessel on the date specified in the Bidding document.

The offer complying with all of the above Eligibility and Technical Evaluation Criteria will be treated as substantially responsive bids for financial evaluation. However, any other criteria in addition to above may be added by the evaluation committee as deemed necessary at the evaluation stage of the Tender.

1.9.3 Financial Evaluation Criteria

- i. The financial evaluation will be based on the total cost of operation of the vessel comprising the following costs computed using the rates quoted by the bidder;
 - a. Cost of Time Charter hire for 1460 days.

- b. Cost of 10,096 meals per year
- c. Cost of accommodation for 02 persons for 1208 days.
- d. Fuel Consumption for operation of the vessel at 85% Maximum Continues Rating (MCR) for 28,000 hours

(Above operational data are based on the averages during four years of operation of vessels engaged in same operations)

- ii. Evaluation of the bids with respect to the bunker consumption will be based on the 85 % MCR rating provided by the bidder. The data on bunker consumption shall be verified by conducting field tests at the time of inspection stated in clause No. 2.9 (Inspection of the vessel) in Section 2. The cost of such testing shall be on bidder's account.
- iii. The lowest quoted Bid out of the substantially responsive Bids will be selected as the successful Bid.

1.10 Correction of Errors

- 1.10.1 Bids determined to be substantially responsive will be checked by the CEYPETCO for any arithmetical errors. Arithmetical errors will be rectified by the CEYPETCO on the following basis:

If there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected; if there is discrepancy between the amounts in figures and in words, the amount in words will prevail.

- 1.10.2 The amount stated in the Bid will be adjusted by CEYPETCO in accordance with the above procedure for the correction of errors and, with the concurrence of the prospective Bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount, the Bid will be rejected, and the Bid Security shall be forfeited in accordance with the sub clause 1.8.2 of section 1.

1.11 Right of the CAPC to Accept or Reject any or all Bids

- 1.11.1 CAPC will not be bound to make the award to the Bidder submitting the lowest offer.
- 1.11.2 The CAPC reserves the rights to accept any Bid or to reject any or all Bids without adducing any reason.

SECTION 2 – CONDITIONS OF CONTRACT (COC)

2.1 Performance Security

- 2.1.1 The Bidder shall inform CEYPETCO of the acceptance of the award of the Bid within four (04) working days from date of award.
- 2.1.2 Upon acceptance of the Bid, CEYPETCO reserves to itself the right to request a Performance Security (Unconditional) as per format annexed (please see 'Form B – Format of Performance Security' of the 'Schedule C: Standard Forms') from the successful Bidder for a **sum up to 10% of the total estimated value of the contract** to be established within fifteen (15) working days from date of award of Bid.
- 2.1.3 The **Performance Security** shall be issued in favour of CEYPETCO by a commercial bank operating in Sri Lanka approved by the CBSL or a Bank based in another country but confirmed by a Bank operating in Sri Lanka approved by the CBSL to cover the performance by the successful Bidder of the terms and conditions of award of the Bid.
- 2.1.4 Such **Performance Security** shall be valid for a period of twenty five (25) months from the date of commencement of the time charter on the supply of the vessel with an extension for another twenty four (24) months. Any extension to the Charter Party shall be covered by a similar **Performance Security** in the same format. The successful Bidder shall forego any sum within the value of the performance security claimed by CEYPETCO to cover the losses in the event of non-fulfillment of the contract entered into or violation of any of the terms and conditions on the award of the Bid. Claim on the performance security shall be entertained by the Bidder's bank as aforesaid if they are received within a period of 30 days beyond the period of its validity (grace period of 30 days).

2.2 Mode of Payment

- 2.2.1 Time Charter hire and other payments shall be paid after deducting the local agent's commission, as stated in sub clause 2.7.4 of section 2. All dues pertaining to the vessel are as per charter party and any taxes on the vessel shall be payable by the vessel owner.
- 2.2.2 Successful Bidder shall submit monthly invoices to CEYPETCO at the end of each month. Payments will be made within thirty (30) days after acceptance of the invoice by CEYPETCO.

2.3 Date of Delivery and the Time Charter Period of the Vessel

The date of delivery of the vessel in Colombo (i.e. commencement of Time Charter) required by CEYPETCO will be at 1000 hrs on 30.04.2020. Vessel in full conformity with the Bid requirements shall be delivered by the required date by the successful Bidder and the Time Charter period of the vessel will be four (4) years.

CEYPETCO reserves the right to extend the Time Charter up to a maximum of one (1) year in full or in part as determined by CEYPETCO, on the same terms and conditions subject to approval of the Government of Sri Lanka. The intention to exercise the said right by the charterer shall be officially communicated to the owner at least thirty (30) days before the expiry of the Charter Party. CEYPETCO reserves the right to terminate the Charter Party earlier than two years as per the provisions in Clause 31 of Part II of the BIMCO 'SUPPLYTIME 2005' Charter Party. The Bidder shall provide its terms and conditions for such early termination under item no. 24 of the Offer Sheet. The redelivery of the vessel to the owners will be at Colombo after completion of the Charter Period.

2.4 Requirements for the Vessel

2.4.1 The vessel shall have appropriate class notation to carry out the work specified in the bidding document. All certificates listed in item 10A of 'Schedule B: Format of Offer' shall be available on board the vessel and these certificates shall be authenticated by a member of society of International Association of Classification Societies (IACS). Certified copies of such documents shall be submitted with the Bid.

2.4.2 The vessel shall be capable of performing the following duties:

- a) Transferring personnel and equipment between shore and tanker/SPBM.
- b) Handling floating hoses and transferring them to and from tanker and shore.
- c) Maintenance of Pipe Line End Manifold (PLEM), submarine pipeline, buoy and hoses.
- d) Provision of and storage for anti-pollution equipment and chemicals.
- e) Keeping a tanker of max., 180,000 DWT off buoy by pulling or pushing from both bow and stern of the tanker.
- f) Towing arrangements to be available at both bow and stern of the tug.
- g) Inspection, installation, repair & maintenance, removing, towing, loading and unloading from the MERV of both floating and under buoy hoses

2.4.3 The vessel shall have tug like maneuvering capabilities for tanker mooring operations and have rounded hull with robust fendering for alongside work with tankers. The bow configuration should be rounded. In the case of pointed bow the Bidder shall provide adequate protection by a fendering arrangement, which shall not hinder any

of the operational requirements of the tug. This fendering arrangement shall be to the satisfaction of CEYPETCO so that the tug could be used for pushing other vessels.

- 2.4.4 The vessel shall be available to the Charterer or their nominees to perform any other duties inclusive of carriage of cargo within its limits of capability in Sri Lanka Exclusive Economic Zone (EEZ) and work pertaining to any other SPBM.
- 2.4.5 The vessel offered shall conform to the specifications stipulated in 'Section 3: Specifications of the Vessel' and 'Schedule B: Format of Offer' at the time of delivery on the date required by CEYPETCO. Individual Bids shall be submitted on separate offer sheets obtained from CEYPETCO with separate Bid Bonds if the Bidder is offering more than one bid. Please attach the copy of the receipt of payment pertaining to obtaining each such document to the offer sheet.
- 2.4.6 In the Bids for the Time Charter, the Bidder shall be the owner or have purchase agreement with the owner or Time Charterer by demise or Manager of the Vessel offered. All necessary documentary proofs required to be submitted along with the bid. The Charter Party shall be signed only with the owner or Demise Charterer or Manager of the vessel.
- 2.4.7 Whenever the vessel offered is not available during the period of the Time Charter on account of repairs or other reasonable causes for the purpose of services required (excluding Force Majeure), the Bidder shall be obliged to provide a suitable substitute vessel acceptable to CEYPETCO in time without additional cost to CEYPETCO, so that, the services to be rendered by the vessel offered will not be disrupted. However, substitution will not be permitted at the beginning of the charter.
- 2.4.8 In the event of failure by Bidder to make available a suitable substitute, CEYPETCO reserves to itself, the right to make alternative arrangements in order to obtain a suitable vessel to continue the services. In such a case, the Bidder shall reimburse CEYPETCO with all expenses including consequential losses incurred as a result of the alternative arrangement.
- 2.4.9 Maintenance time will be as per "BIMCO Supply Time Charter Party 2005" with minimum twenty four (24) hours prior notice to CEYPETCO for such maintenance time. Maintenance time cannot be claimed under any circumstances during operational period of discharge of crude oil/refined products from tanker by the respective SPBM.

2.5 Time Charter Rate

The offer shall indicate clearly Time Charter Rate per day in United States Dollars, for four (04) years. Rates for providing meals and accommodation per-head basis, to personnel other than the crew members, as required by CPC should be stated separately for the aforesaid time charter period of the vessel. (Please see Item No. 7 (I)

and Item No. 22 of the 'Schedule B: Format of Offer')

2.6 Fuel Consumption & Specifications

2.6.1 The consumption of fuel and the specific fuel consumption as per engine manufacturer's data as well as the current fuel consumption of the vessel shall be given at the following modes of operation stated in item 6. F.2. of 'Schedule B: Format of Offer'.

- a) Full engine power, 100% MCR fuel per day in MT
- b) Sailing, 85% MCR fuel per day in MT
- c) Idling, with generator running, fuel per day in MT

CEYPETCO will provide only the bunker fuel requirements of the vessel at no cost to the owner and all other consumables including fresh water, lubricants etc. of the vessel shall be provided by the owner.

The specifications of the fuel supplied by CEYPETCO shall be as specified in 'Schedule D: Ceypetco Standard Specification of Bunker Fuel' of the Bidding Document. However, CEYPETCO reserves the right to revise the Bunker Fuel Specifications from time to time if it deems necessary for better performance of the vessel.

2.6.2 In the event vessel consumes bunker fuel in excess of consumption stated in item 6. F.2. of 'Schedule B: Format of Offer' during the period of the contract, the cost of excess fuel consumed shall be recovered at the prevailing bunker fuel rate from the time charter payment at CEYPETCO's option. If any balance stock noticed during the bunker survey due to less consumption, that amount will be adjusted with the subsequent bunker fuel supply.

2.6.3 The successful Bidder has to provide monthly statements of actual bunker fuel consumed for each month at different modes of operation indicated above within one (01) weeks after the end of each month from the commencement of Time Charter on the format specified by the CEYPETCO as 'Form C – Format of Bunker Consumption and Operational Report' in 'Schedule C: Standard Forms'.

2.6.4 The successful Bidder should make necessary arrangements for CEYPETCO representative/Government Surveyors to go on board the vessel and inspect including official log book, deck and engine log book and oil record book, bunker soundings and other relevant documents when required by CEYPETCO during the period of Time Charter including extension period, if any.

2.7 Other Conditions

2.7.1 CEYPETCO reserves to itself the right to communicate with any party mentioned in the

offer for reference/clarifications.

- 2.7.2 The successful Bidder shall not assign, sublet or mortgage its obligations or rights under any contract entered into with CEYPETCO without the express written prior approval of CEYPETCO and any such assignments, subletting or mortgage made without such approval of CEYPETCO shall be of no avail against CEYPETCO.
- 2.7.3 Bidder shall at the time of Bidding provide all valid certificates required by the Bidding Document as specified in item 10A of the 'Schedule B: Format of Offer', in respect of the vessel offered and ensure that certificates are valid throughout the period of contract (certification of validity to be as per Sub Clause 1.3.1.5 of the Section 1).
- 2.7.4 Bidders may submit Bids or proposals without local agent(s). In the case where a Bidder uses a local agent(s), Bidder shall furnish all the information/documents required as per Sub clause 1.3.2 of the Section 1 (**Required Information and Documents Pertaining to Local Agents**). The local agent's commission if any shall be deducted from the payments made to the Bidder and paid in Sri Lanka Rupees by CEYPETCO to the local agent(s) on account of the Bidder.
- 2.7.5 CPC may have sole discretion to terminate the contract with a four (04) months notice, if the supplier's service is not satisfactory.

2.8 Applicable Charter Party and Governing Law

- 2.8.1 The successful Bidder shall enter into a Time Charter contract with CEYPETCO for the period of Two (2) years commencing from 1000 hrs on 30.04.2020 The Charter Party for the Time Charter to be used for the contract will be 'BIMCO SUPPLY TIME CHARTER PARTY 2005" (Schedule F of this Bidding Document) as amended in Section 4 of the Bidding document. The third party liability coverage under Paragraph 3 Annex B to SUPPLYTIME 2005 Charter Party should include CEYPETCO / Ceylon Petroleum Storage Terminal Limited (hereinafter referred to as CPSTL) employees engaged in operational duties onboard the vessel.
- 2.8.2 The Bidder shall comply with and conform to all laws of Sri Lanka in executing its operation. Arbitration if any, arising from the Charter Party shall be governed by Sri Lanka Laws and the venue of arbitration shall be Colombo, Sri Lanka.
- 2.8.3 All provisions of this Bidding Document and contract to be signed shall be subject to standard Force Majeure conditions as specified in BIMCO Supply Time Charter Party 2005.

2.9 Inspection of the Vessel

2.9.1 Offered vessel will be inspected by an inspection team comprising an Expert Engineer/Mooring Master from CPSTL & a representative from CEYPETCO, prior to award of the contract. This inspection shall include testing of the vessel for confirmation of the fuel consumption stated in the bidding document. All expenditure pertaining to the said inspection (i.e. air travel, hotel accommodation, meals etc.) will be borne by CEYPETCO. Bidders shall provide necessary assistance for such inspection.

The data on bunker consumption shall be verified by conducting field tests and the cost of such testing shall be on bidder's account

2.9.2 In the event that modifications are required as per CEYPETCO specifications, the vessel will be inspected again by two representatives after carrying out necessary modifications and installation of specified equipment on the vessel prior to signing the Charter Party. All the expenditure pertaining to the said inspection or subsequent inspections of the vessel (i.e. air travel, hotel accommodation, meals etc.) shall be borne by the Bidder.

SECTION 3 – SPECIFICATIONS OF THE VESSEL

The vessel shall comply with the following requirements

3.1 DIMENSIONS

- a) Length overall should be a minimum of thirty five meters (35m) and not more than sixty meters (60m).
- b) Breadth moulded should be not less than ten meters (10m).
- c) Depth moulded should be not less than four meters (4m).
- d) Length between the main winch and stern to be in approximately fifteen meters (15m) or higher which ever justifiable for the Technical Team of CEYPETCO. General arrangement plan of the vessel to be submitted along with the Bid.
- e) The vessel shall have a stern roller or rounded stern flush with deck and a rounded hull. All conditions of the sub clause 2.4.3 of section 2 should be met.

3.2 PROPULSION

Twin screw propulsion system – with main engines developing a total BHP of minimum 3000 (Three Thousand) continuous rating.

3.3 BOLLARD PULL

The vessel's continuous static bollard pull shall be not less than 40 MT.

The Bidder shall submit a valid copy of vessel's certified Continuous Static Bollard Pull Certificates. This document shall be certified by one of the classification societies listed in item 9 A of 'Schedule B: Format of Offer', or by a competent authority acceptable to CEYPETCO.

3.4 BOW THRUSTER

Bow thruster developing 3 – 7 MT of thrust at continuous rating and Bow Thrusters should be not less than three hundred (300) BHP. Bow thruster to be operated independent of all other machinery.

3.5 SPEED

Service speed of minimum ten (10) knots.

3.6 YEAR OF CONSTRUCTION

Keel laid 2008 or later.

3.7 FUEL CONSUMPTION/CAPACITY OF TANKS

Capacities of bunker tanks and fuel consumption rates, under different modes of operation, to be stated as per Sub Clause 2.6.1 of 'Section 2: Conditions of Contract'.

3.8 GENERATORS

Two main generators with sufficient power to work all deck equipment simultaneously and one auxiliary generator to be provided. Capacities of all generators to be stated. 230 volt and 400 volt power outlets must be available and number of each type of outlets to be specified. The power outlets to be available outside the super structure. Power supply shall be of 400 volt three phase 50 Hz.

3.9 DECK REQUIREMENTS

- a) Deck shall have
 - i. Sufficient area for work space & storage of maintenance tools, SPBM spares such as ropes, wires, shackles, etc.
 - ii. Deck space shall be available for storage of anti-pollution equipment (booms, skimmers, and power packs), air compressors, welding & diving equipment.
- b) Deck crane must be,
 - i. Located forward of deck area clear of deck space for handling equipment from deck area.

and
 - ii. Crane shall have a minimum SWL of 5 MT at six meters (6m) from the ship's side closer to the center of the crane in an athwart ship direction.
 - iii. Capable of lifting a load of 3 MT at a radius of 10 m from its center.
- c) 'A' Frame:
 - i. Articulated 3 MT SWL 'A' frame at stern located on deck, provided with suitable winch (minimum 5 MT) dedicated for 'A' frame (hydraulic or electrically operated). 'A' frame and attachments shall be collapsible to deck level.

- ii. 'A' frame to be designed to accommodate work close to tanker.
- iii. 'A' frame shall be capable of working to a minimum of two and a half meters (2.5m) outward from stern end of the vessel.
- d) Main deck winch:
Minimum twenty five (25) MT capacity continuous rating.
- e) Tugger winch:

One (01) Nos. Tugger winch of min. five (05) MT continuous rating each to be provided. Tugger winches shall be located on the main deck on port or starboard side closer to the ship's side. Mode of operations should be stated (electric, hydraulic etc.).
- f) Forecastle head winch and bollards: to handle tail hose and ropes.
- g) Forecastle bollards should be of sufficient strength to pull 180,000 DWT tanker off the buoy.
- h) Adequate lighting for work on forward deck and aft deck and two (02) Nos. ten inch (10") diameter search lights of not less than 2 Kilo Watts (kW) of power each.
- i) Anti Pollution Equipment
 - i. Spray Booms of minimum length seven point five (7.5) meters with five (5) numbers nozzles for each spray boom to cover the entire swath on both port and starboard sides, independent pumps and tanks with a minimum capacity of 4,000 liters for the storage of dispersant to be provided. A stand by pump or provision to couple the main fire pump/ emergency fire pump to the spray booms in case of failure of the main pump shall be provided. Spraying capacity shall be min. 150 liters/min as an over-the-bow spraying system. Additional hand-sprayers to be provided. Spray system shall have facility to draw direct from dispersant drum.
 - ii. One number of Weir type skimmer should be available onboard the vessel (specifications should be compatible with the type of oil used in both the vessel offered and the Tankers handled).
 - iii. One number of 'U' shape oil containment boom and Jib Arm should be available onboard the vessel.
- j) Inflatable run-about:

Minimum 01 No. inflatable run-about/boat to accommodate a minimum of eight persons safely with life jackets with a 25–40 HP petrol outboard motor, which should comply with all appropriate SOLAS compliance requirements. Petrol shall be provided by the Bidder.

k) Accommodation/Meal requirements:

- i. 2 x2 berth cabin or 4x1 berth cabin minimum
- ii. Rates for providing meals/ accommodation per head basis to be stated separately (Please see item No. 22 of the Schedule B: Format of Offer).

l) Air compressors and other equipment:

Air compressor 7 kg/cm² x 21.5 cubic meters per minute, together with one number of 2" (two inch) diameter hose of 25 meter length and 1" (one inch) diameter hose of 75 meter long, to be provided.

Welding equipment up to 300 amp and oxy-acetylene cutting facility to be provided. A separate compressor (**capacity 210 liters per minute at 225 bars with power not less than 5 HP**) for charging aqua-lung bottles to be provided.

m) Adequate storage space for SPBM maintenance equipment and materials.

n) (1) An opening with lockable gate to be provided on both port and starboard sides of the main deck bulwark.

(2) Gang plank or brow for safe access.

(3) Pilot board platform on either side (port and starboard) to allow CEYPETCO staff to board tanker using ship gangway.

(4) 03 Nos., portable communication equipment with all marine channels to be provided.

(5) Two numbers coils of polypropylene rope, SWL 40 MT (10" circ.) and 220 meters length each to be available onboard for emergency use of CPC requirement on replacement basis (by CPC).

(6) Anchor handling system:

System should be available for anchor handling and towing operations. Preferably a unit having towing pins complete with flaps for horizontal locking and fork (jaw type). Complete system (Fork and pins) should run vertically up

and down and inserted to the deck structure. System should be powered by high pressure hydraulic cylinders of about 200 bars.

Note: System should be capable of handling 3" (76 mm) to 3 ½" (90 mm) diameter anchor chains and minimum load capacity of the system should be equal to bollard pull power of the vessel.

- o) Proper manning with 3 certified (certification acceptable to Sri Lankan Registry), watch keeping officers and manning as per manning certificate.
- p) Medical First-Aid kit and equipment in accordance with WHO requirements.
- q) Equipped with CCTV cameras to cover the Deck area and, another camera which having zooming facility & live transmitting facility to CPC as and when required.

3.10 SLOP TANK

Slop tank of min. 30 cubic meters capacity should be available and suitably arranged to receive oil spilled on deck or skimmed oil and fitted with suitable discharge pump. Slop tank to have flange opening on deck to receive oil.

Or

Facility to be provided to store 30 cubic meters of skimmed oil with discharging facility.

3.11 BOW ANCHORS: 02 Nos.

3.12 FIRE FIGHTING EQUIPMENT

Fire monitor with high pressure fire fighting pump to be available on board for immediate use in case of an external fire at a minimum distance of 20 Meters. Foam facility to be provided. All equipment should comply with minimum requirements of SOLAS.

3.13 BRIDGE EQUIPMENT

Vessel shall be fitted with the following bridge equipment, which should comply with minimum SOLAS requirements:

1. GMDSS radio console (for A1+A2+A3) and three sets of hand held two-way VHF radio telephone, with rechargeable batteries + battery chargers.
2. Magnetic compass and gyrocompass
3. At least one set of operational Radar, of minimum 24 nautical miles range.

4. Echo sounder with recorder
5. GPS navigator
6. NAVTEX receiver.
7. AIS receiver
8. Anemometer with recorder and printing facilities.
9. Auto pilot
10. Computer system with printer of capacity acceptable to the charterer and an underwater Digital Camera (usable depth – up to 30m) of at least 5 mega pixels

3.14 ISM/ISPS REQUIREMENTS

Vessels shall have ISM/ISPS certification.

3.15 REGISTRY

The vessel shall have Sri Lankan Registry or parallel registration in Sri Lanka during the Total Time Charter period.

**SECTION 4 – AMENDMENTS, ADDITIONS AND DELETIONS TO BIMCO “SUPPLY TIME 2005”
CHARTER PARTY (CODE NAME “SUPPLYTIME 2005”)**

4.1 PART I OF THE “SUPPLYTIME 2005” CHARTER PARTY

The following texts should be inserted in relevant boxes in Part I of the Charter Party.

4.1.1 Box 5: “At 1000 hrs on 30.04.2020”

4.1.2 Box 6: “Not Applicable” or “N/A”

4.1.3 Box 7: “Colombo, Sri Lanka”

4.1.4 Box 8 (i): “Colombo Sri Lanka”

4.1.5 Box 8 (ii): “Thirty (30) days”

4.1.6 Box 9: “Four (04) years commencing from 30.04.2020.

4.1.7 Box 10 (i): “One (1) Year”

4.1.8 Box 10 (ii): “Thirty (30) days”

4.1.9 Box 11 (i & ii): “N/A”

4.1.10 Box 12 (i & ii): “N/A”

4.1.11 Box 13 (i): “N/A”

4.1.12 BOX 14: “N/A”

4.1.13 Box 15: “N/A”

4.1.14 Box 16: “Territorial Waters & Exclusive Economic Zone (EEZ) of Sri Lanka”

4.1.15 Box 17: “Maintenance and Emergency Response Services as per Bidding Document B/ 18/2020”

4.1.16 In Box 18 (i) in PART I; after “ROV” insert “Remotely Operated Vehicles”

4.1.17 Box 18 (i); “No”

4.1.18 Box 18 (ii): “Yes”

4.1.19 Box 19 (iv): “As per CEYPETCO Standard specifications in Section 9 (Schedule D) of the Bidding Document B/ 18 /2020”

4.1.20 Box 21: "Same as the stated in Box 20"

4.1.21 Box 22 (i): "Thirty (30) days in arrears"

4.1.22 Box 22 (ii & iii) "N/A"

4.1.23 Box 24: "Thirty (30) days"

4.1.24 Box 26: "Twelve (12) months after expiry of the Time Charter period"

4.1.25 Box 29: "N/A"

4.1.26 Box 30: "N/A"

4.1.27 Box 31: "Colombo Sri Lanka"

4.1.28 Box 32: "As per clause 30 as amended by the sub clause 4.2.25 of the Bidding document"

4.1.29 Box 33: "Twenty four (24) hours"

4.1.30 Box 34: "(c) of Cl. 34 as amended, 1. Arbitration in Sri Lanka, 2. Sri Lanka Laws to apply"

4.1.31 In second & third lines of the Last paragraph of PART I of the charter party, delete "ANNEX "A"" from both lines & instead insert "offer sheet submitted by the owner along with the bid dated

4.1.32 Insert the following clause at the end of the PART I of the charter party (before the signature column); "All terms and conditions of the bidding document shall form part and parcel of the contract. In the event of any inconsistency, the bid document will prevail over any other documents".

4.2 PART II OF THE "SUPPLYTIME 2005" CHARTER PARTY

The following amendments / deletions / additions should be incorporated to the Part II of the Charter Party.

4.2.1 In clause 1 (b), line 19 delete "Subject to Clause 12(b)"

4.2.2 Line No. 21, in clause 1: after ".....Box 10(i), insert "as per the same terms and conditions of the charter party"

- 4.2.3 Line No. 25, in clause 1: delete “(whichever is stated in Box 11(i))”
- 4.2.4 Line No. 26, in clause 1: delete the line in full
- 4.2.5 Line No. 28, in clause 1: delete “Subject to clause 2 (b)”
- 4.2.6 Line No. 30, in clause 2: delete “any time between”
- 4.2.7 Line No. 30, in clause 2: insert “& time” after “.... The date” (before “stated in Box 5...”)
- 4.2.8 Line No. 31 in clause 2 (a); delete “the date stated in Box 6”
- 4.2.9 Clause 2 (b), delete lines 33 to 47 (both lines inclusive).
- 4.2.10 Line No. 49, in clause 2: delete “midnight local time on the cancelling”
- 4.2.11 Line No. 49, in clause 2: insert “& time” after “.... Date” (before “stated in Box...”)
- 4.2.12 Line No. 50, in clause 2: delete “6” & insert “5” before “, the charterers shall”
- 4.2.13 Line No. 52 in clause 2 (c); delete “by the canceling date”
- 4.2.14 Line No. 56, in clause 2” delete “24” & insert “48”
- 4.2.15 Clause 2 (e), delete lines 73 to 76 (both lines inclusive).
- 4.2.16 Line No. 80 in clause 3 (a): delete “Annex “A” and replace with “the offer sheet submitted by the owner along with their bid dated
- 4.2.17 Line No. 83 in clause 3 (b); delete “due diligence” and replace with “utmost care and diligence”
- 4.2.18 Mark the existing paragraph under clause 5 as sub paragraph “i” (paragraph including line number from 103 to 110)
- 4.2.19 Line No. 107 in clause 5, Delete “ANNEX “A”” & instead insert “offer sheet submitted by the owner along with their bid dated
- 4.2.20 Line No. 108 in clause 5, Delete “lubricant & water”

- 4.2.21 Insert the following paragraph as sub paragraph ii to the clause 5
“The charterer reserves the right to appoint an independent Surveyor / inspector / auditor at any time during the period of Charter at its own cost as it deems necessary, to survey / inspect / audit the vessel including as and when bunker/fuel cargoes are loaded or unloaded.”
- 4.2.22 Line 131 in clause 6 (a); after “ROV” insert “Remotely Operated Vehicles”
- 4.2.23 Line No. 229 in Clause 7 (c); at the end of the clause add “Charterer shall request an alternative Master, during the course of the Investigation and charterer reserves the right to refuse to continue with the Master in question even the Owner does not conclude that the Master should be changed.”
- 4.2.24 Line No. 244 in clause 8 (a); Insert “Lubricant, Water” after “provisions” and before “wages....”
- 4.2.25 Line No. 247 in clause 8 (a); delete “Annex A” and replace with “the Offer Sheet submitted by the owner along with their bid dated”
- 4.2.26 In Clause 8 (a), add the following to the end:
“Owners/Owners’ Agents shall make arrangements for Pilotage and Port clearances whilst on Charter directly to Ceylon Petroleum Corporation and not during sublet period if any.”
- 4.2.27 Line No. 266 in clause 8 (b); delete “ANNEX A” and replace with “the Offer Sheet submitted by the owner along with their bid dated”
- 4.2.28 Clause 9 (a), lines 269 & 270 delete “lubricant, water, dispersant” and add “dispersants for charterer’s use”.
- 4.2.29 Clause 9 (a), line 271 except “charges” delete the rest
- 4.2.30 Clause 9 (a), line 272 delete “(whether compulsory or not),”.
- 4.2.31 Clause 9 (e & f), delete lines from 309 to 323 (both lines inclusive).
- 4.2.32 In clause 10 (b); delete lines 333, 334 and add “the bunker fuel on board at the lowest price prevailing within the port of Colombo at the time of delivery of the vessel”.
- 4.2.33 Line No. 335 in clause 10 (b); Delete “Box 19 (ii)” and insert “bunker” after “... purchase the” and before “fuel on”

- 4.2.34 Clause 10 (b); delete lines from 336 to 341(both lines inclusive) and add “board at the lowest price prevailing within the Port of Colombo at the time of redelivery of the vessel”.
- 4.2.35 In clause 12 (b), delete lines from 438 to 443 (both lines inclusive).
- 4.2.36 In clause 12 (d), line 462 delete the words “and lubricants”.
- 4.2.37 In clause 12 (e), line 467 delete the word “receipt of the invoice” and add “approval of payment by the charterer”.
- 4.2.38 In clause 12 (e), line 470 add “or agency commission” between words “disbursement” and “made on”.
- 4.2.39 Line No. 491 clause 12 (f) (i); insert “undisputed” between “..... Pay” and “Hire.....”
- 4.2.40 Line No. 492 in clause 12 (f) (i); Insert “thereof” between the words “.....Charterers” and “in.....”.
- 4.2.41 Line Nos. 493 in clause 12 (f)(i); delete “and further may also” and insert the following before the word “suspend”; “If the Owner receives such undisputed Hire within 5 Banking days after issuing the said written notice, the Owner shall not suspend or cancel the Charter Party. If no payment is received within 5 Banking days, the Owner should issue a written notice again to the Charterer stating that the Charter Party would be suspended and if the Undisputed Hire is still not received within 5 days of the date thereof, the Owner may”.
- 4.2.42 Line No. 503 in clause 12 (f)(ii); insert “10” instead of “5”
- 4.2.43 Line No. 503 in clause 12 (f)(ii); insert “second” after the words “....days of the” and before the words “Written notification.....”
- 4.2.44 Line No. 504 in clause 12 (f) (ii); insert “undisputed” between “..... the” and “Hire.....”.
- 4.2.45 Line No. 507 in clause 12 (f)(ii); insert “If the Owner receives such Undisputed Hire within the period stipulated in the said notice, the Owner shall not suspend or cancel the Charter Party” between words “.... Charter Party.” and “The right to withdraw....”.
- 4.2.46 Line No. 512 Clause 12 f(ii); Delete “The receipt by the Owner of a payment”
- 4.2.47 Clause 12 f(ii); Delete lines 513,514 and 516 in full.

- 4.2.48 Clause 12 (f) (iv); at the end insert “The charterer shall only accept such liability if it is clearly established that the liabilities have arisen due to the fault of the Charterer. Further in the event of such 3rd party claims, the Owner should notify the Charterer of same prior to making of any payments”.
- 4.2.49 Clause 13 (c), line 590 except “disposal clean of cargo,” delete the rest, delete lines from 591 to 596 and add “at the Port of Colombo for the purpose of such dry docking”
- 4.2.50 Clause 13 (c), at the end of line 599 add “No extra or additional payment shall be made by the Charterer in respect of any time period which falls under the definition of ‘Maintenance Allowance’ not used by the owners.”
- 4.2.51 Line No. 600 in clause 13 (c); delete all except “In the event”
- 4.2.52 Line No. 601 in clause 13 (c); delete all except “the charterers”.
- 4.2.53 Line No. 605 in clause 13 (c); delete “then prevailing” and add “agreed to this Charter Party” before “in addition to Hire”
- 4.2.54 In clause 13 (c), line 607 delete “taken” and add “given”
- 4.2.55 In clause 13 (c), line 607 after “made available” add “by the charterers”
- 4.2.56 In clause 13 (c), between lines 607 & 608 add “However, the charterers have the right of not releasing the vessel for Maintenance & Dry docking if the vessel is deemed to be required by the Charterers for any operations. In such an event no additional payment shall be made in respect of Charterers not releasing the vessel for Maintenance and Dry docking purposes.”
- 4.2.57 Clause 13 (c); at the end insert “In the event of a time over-run in respect of Maintenance Work, Owner should provide a suitable substitute Vessel acceptable to CEYPETCO as specified in the Sub Clause 2.4.7 of the Bid Document Ref: B/ 18 /2020.”
- 4.2.58 Line No. 648 in clause 14 (b) (ii); delete “the owner” and insert “and the Bidding Document No. B/ 18 /2020 issued by CEYPETCO, the Owners except for gross negligence and willful defaults” after “...26” and before “shall not be”
- 4.2.59 Line No. 672 in clause 14 (c); insert “Subject to the clauses in the Bidding Document No. B/ 18 /2020 issued by CEYPETCO” at the beginning of the clause (before “Neither party...)
- 4.2.60 Clause 14 (f); at the end insert “The provisions hereof are subject to the provisions in the Bidding Document No. B/ 18 /2020 issued by CEYPETCO”

- 4.2.61 Clause 15 (b); at the end insert “Gross negligence and willful defaults of Owners and their Employees are not excluded”
- 4.2.62 Delete clause 17 (c) in full (from line No. 805 to 810).
- 4.2.63 In clause 21, line 930 and 931 delete “at any time, whether before delivery or” and add “except at the beginning of, but”.
- 4.2.64 In clause 30, Delete lines from 1158 to 1167 (both lines inclusive) and insert “Each party shall pay taxes due on its own profit, income and personnel. The Owners shall pay all other taxes and dues arising out of the operation or use of the vessel during the Charter period excluding Sri Lanka Port Authority dues”.
- 4.2.65 In clause 31, line 1175 except the number “13” delete the rest and in line 1176 delete the word “well”.
- 4.2.66 In clause 34 (c), line 1342 delete “the place”, in line 1343 delete “mutually agreed by the parties” and add “Sri Lanka”.
- 4.2.67 In clause 34 (c), lines 1345 & 1346, delete “at a mutually agreed place, subject to the procedures applicable there” and add “at Colombo, Sri Lanka in accordance with the Arbitration Acts 11 of 1995 Sri Lanka”.
- 4.2.68 Clause 34 (d); Delete from lines; Nos. from 1351 upto 1397 (all these lines to be deleted)
- 4.2.69 Annexure ‘B’ to the SUPPLYTIME 2005 Charter Party (Insurance), delete Paragraphs 4 & 5.

Schedule A: FORM of BID

The Chairman
Cabinet Appointed Procurement Committee
C/o Procurement & Stores Function
Ceylon Petroleum Corporation
1st Floor, No 609,
Dr. Danister De Silva Mawatha,
Colombo 9.

Dear Sir,

FORM OF BID

**BID FOR THE TIME CHARTER OF A VESSEL FOR MAINTENANCE AND EMERGENCY RESPONSE WORK
CONNECTED WITH THE SPBM – BID NO. B/ 18/2020**

We the undersigned having read and understood the Bidding document (No. **B/ 18 /2020**) regarding the above mentioned Bid, hereby submit our Bid and other necessary information required by you attached hereto as **Schedule B**.

We understand that Cabinet Appointed Procurement Committee reserves to itself the right to reject any Bid pertaining to the said Bid without adducing any reason.

Unless and until a formal Agreement is prepared and executed this Bid together with your written acceptance thereof shall constitute a binding contract with us.

We understand you are not bound to accept the lowest or any Bid you may receive.

The Bid we are submitting is complete and fulfils the requirements described in the full Bidding document.

We hereby confirm that this Bid complies with the Bid validity required by the Bidding document (Sub clause 1.5 of the Section 1 of Bid no. **B/ 18 /2020**).

We agree to be bound by the Bid, Bid Conditions and Performance Security.

We affirm that the Vessel will be delivered to CEYPETCO at 1000 hrs on 30.04.2020.

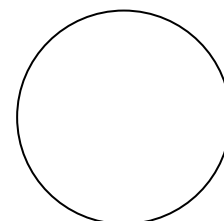
Signature of the Bidder:.....

Name of Signatory :.....

Designation of Signatory :.....

Company Name & Official Address:

Date:



Schedule B: FORMAT OF OFFER (OFFER SHEET)

**BID FOR THE TIME CHARTER OF A VESSEL FOR MAINTENANCE AND EMERGENCY
RESPONSE WORK CONNECTED WITH THE SPBM**

All information required under each item should be furnished and all questions should be answered without any amendments or deletions to the item and CEYPETCO requirement/specification in Column 1. If the vessel is not fitted with all the Bidding requirements, the details of items to be fitted and the written undertaking to fit them prior to delivery of vessel in Colombo on date required by CEYPETCO shall be stated in item 19.

ITEM NO	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
1.	Vessel's Name	Please refer Section 2 – Sub Clause 2.4.5	
2.	Previous Name (s) Date changed (state all changes if any from year of Construction).		
3.	1.Flag 2. Present location of vessel 3. Date of availability of vessel in Colombo	1. 2. 3. at 1000 hrs on (See Sub Clause 2.3)	1. 2. 3.
4.	Port of Registry		
5.	1. Built at : 2. Year of construction (Keel laid):	1. 2. 2008 or later.	1. 2.

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/SPEC.
6. A. 1. 2. 3. 4. B. C.	<u>Vessel's Details :-</u> Dimensions : Length overall Breadth moulded Depth moulded Free Deck space between winch and stern Stern Roller/Rounded Stern Hull/Bow	A. 1. Should be a minimum of thirty five meters (35m) and not more than sixty meters (60m). 2. Should be not less than ten meters (10m) 3. Should be not less than four meters (4 m) 4. Sufficient free deck space to be available between main winch & stern. Length between main winch and stern to be in at least fifteen meters (15m) General arrangement plan of the vessel to be submitted along with the Bid. B. Vessel shall have stern roller or rounded stern Flush with deck. C. Vessel shall have rounded hull. Bow configuration as per Sub Clause 2.4.3 of Section 2.	1. 2. 3. 4. B. C.

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/SPEC.
D. 1. 2. 3.	Propulsion Propulsion System BHP of Main engines and Bollard Pull Bow Thruster	D. 1. Twin screw propellers 2. Each main engine to develop min. total BHP of 1500 (One thousand five hundred) Continuous rating. The vessel's Continuous maximum Static Bollard Pull shall be not less than 40 MT. The Bidder shall submit a valid copy of vessel's certified Continuous Static Bollard Pull Certificates. This document shall be certified by one of the Classification Societies listed in item 9 A. of the offer sheet or by a competent authority acceptable to CEYPETCO. Provision shall be available (Digital or manual) for synchronizing the two main engines to share the power required for bollard pull equally during operations. 3. BHP not less than 300 (Three Hundred) at continuous rating to be operated independent of operation of other systems. Thrust to be Minimum 3-7 MT.	1. 2. 3.

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT / SPECIFICATION	COLUMN II BIDDER'S BID / SPECIFICATION
E.	Speed :	Free running speed of min. 10 knots	
F.	1. Fuel storage capacity: 2. Specific fuel consumption i. as per engine manufacturer's data at different modes of operation. ii. Current Fuel consumption	1. Storage capacity and grade of fuel used. 2. Modes of operation: i. (a) Full engine power 100% MCR, per hour in MT (b) Sailing 85% MCR, per hour in MT (c) Idling with generator running per hour in MT ii. (a) Full engine power 100% MCR per hour in MT (b) Sailing 85% MCR per hour in MT (a) Idling with generator running per hour in MT	1. 2. i. (a) (b) (c) ii. (a) (b) (c)
G.	Generators	Two (2) main generators with combined power sufficient to work all deck equipment simultaneously and one auxiliary generator to be provided (a) State capacity for each in kVA (b) Must have 230V and 400V power outlets, 50 Hz. Number of outlets to be specified. (c) The power outlets to be available outside the super structure. (d) Power supply to be 400 volt three (3) phase 50 Hz.	(a) (b) (C) (d)

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
H.	Deck Requirements	Deck shall have 1. Sufficient area for work space & storage of maintenance tools, SPBM spares such as ropes, wires, shackles, etc 2. Deck space shall be available for storage of anti-pollution equipment (booms, skimmers, and power packs), air compressors, welding & diving equipment.	1. 2.
7. A.	Deck Crane	Deck crane must be 1. Located forward of deck area clear of deck space for handling equipment from deck area. 2. Crane shall be located at the place where able to lift 5 MT at six meter (6 m) from the ship's side close to the center of the crane in an athwart ship direction. 3. Capable of lifting a load minimum of 3 MT (3 WL) at a radius of 10 m from its center.	(1) (2) (3)
B.	'A' Frame	1. Articulated 3 MT SWL 'A' Frame at stern located on deck, provided with suitable winch (minimum 5 MT) dedicated for 'A' frame (hydraulic or electrically operated). 'A' frame and attachments shall be collapsible to deck level. 'A' frame to be designed for work close to tanker. 2. A' frame shall be capable of working at a min. of two and a half meters (2.5m) outward from the stern end of vessel.	1. 2.

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
C.	Main deck winch	Minimum capacity of 25 MT at full load continuous.	
D.	Tugger winches	1 Nos. of min. 5 MT at full load continuous. Tugger winches shall be located on the main deck on Port or starboard side close to inner end of the main deck. State mode of operation (electric, hydraulic etc.).	
E.	Forecastle head winch and bollards	1. Forecastle head winch & bollard to handle hose tail ropes. 2. Forecastle bollard should have sufficient strength to pull 180,000 Dwt. tanker off buoy.	1. 2.
F.	Lighting	Adequate lighting for work on aft deck. 02 Numbers of 10" search lights 2 KW each.	
G.	Anti-pollution Equipment	1. 02 Nos. 7.5m minimum length spray booms port & starboard with 05 Numbers of nozzles each to cover the entire swath, independent pumps & tanks for dispersant. Min. 4000 liter tank capacity. Spraying capacity minimum 150 liters/min as an over the bow spraying system. Additional hand sprayers to be provided. A spray system shall have facility to draw direct from drums. State equipment & tank capacity available. 2. One number of Weir type skimmer should be available onboard. 3. One number of 'U' shape oil containment boom and Jib Arm should be available onboard the vessel.	1. 2. 3.

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
H.	Inflatable run-about	Minimum 01 No. inflatable run-about of 8-man capacity with life jackets with 25-40 HP petrol out-board motor, which should comply with all SOLAS requirements. Petrol to be provided by the Bidder.	
I.	Accommodation/Meals Requirement for personnel other than crew members required by CPC	1. 2 x2 berth cabin or 4x1 berth cabin minimum 2. Rates for providing meals/accommodation per head basis to be stated. (Please see item No. 22 below)	
J.	Air compressor/Other equipment	1. 01 No. Air compressor, capacity 7Kg/cm ² x 21.5 cubic meters per minute. 2. Two Air Hoses for air compressor - one to be 2 inch dia. 25m length & other 1 inch dia. 75m length 3. Welding equipment up to 300 amps. 4. Oxy-acetylene cutting facility. 5. Separate compressor(Capacity 210 litres/min at 225 bars, Power 5HP) for charging aqua-lung bottles to be provided	1. 2. 3. 4. 5.
K.	Slop tank	1. Slop tank of min. capacity 30 m ³ to be available & suitably arranged to receive oil spilled on deck/ skimmed oil and fitted with suitable discharge pump. Or Facility to be provided to store 30 cubic meters of skimmed oil with discharging facility. 2. Slop tank to have flanged opening to receive oil.	1. 2.
L.	Bow anchors	2 Nos.	
M.	Fire fighting equipment	Fire monitor with high pressure fire fighting pump to be available on board for immediate use in case of fire. Foam facility to be provided. All equipment should comply with minimum requirements of SOLAS.	

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
N.	1. Bulwark opening 2. Gang plank/brow 3. Pilot Board platform	1. An opening with lockable gate to be provided on main deck Bulwark on both port & starboard sides. 2. Gang plank or brow for safe access to be provided. 3. Pilot Board Platform on either side (port and starboard) to allow CEYPETCO staff to board tanker using ship gangway to be provided.	1. 2. 3.
O.	Communication & Bridge Equipment	1. 03 Nos. portable communication equipment with all marine channels to be provided. 2. Vessel shall be fitted with the following bridge equipment, which should comply with minimum SOLAS requirements: (a) GMDSS radio console (for A1+A2+A3) and three sets of hand held two-way VHF radio telephone. (b) Magnetic compass and gyrocompass (c) At least one set of Radar of minimum 24 nautical miles range. (d) Echo sounder with recorder (e) GPS navigator (f) NAVTEX receiver. (g) AIS receiver (h) Anemometer with recorder (i) Computer System, Printer, underwater Digital Camera (usable depth - up to 30m) of at least 5 mega pixels.	1. 2. a. b. c. d. e. f. g. h. i.

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
P.	Ropes & Anchor handling system	<p>1. Two numbers coils of polypropylene rope, SWL 40 MT and 220 meters length each.</p> <p>2. System should be available for anchor handling and towing operations. Preferably a unit having towing pins complete with flaps for horizontal locking and fork (jaw type). Complete system (Fork and pins) should run vertically up and down and inserted to the deck structure. System should be powered by high pressure hydraulic cylinders.</p> <p><u>Note:</u> System should be capable in handling 3" (76mm) to 3 ½" (90mm) anchor chains and minimum load capacity of the system should be equal to bollard pull of the vessel.</p>	<p>1.</p> <p>2.</p>
Q.	Power system (air hydraulic, electrical)	Power system shall cater for simultaneous operation of all facilities.	
R.	Manning	As per manning certificate issued by the Sri Lanka Registry.	
S	First-Aid Kit	Medical First-Aid kit and equipment in accordance with WHO requirements.	

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
8. A.	Registered Owner : 1. Full Name : 2. Address : 3. Telephone : 4. Telex No. : 5. Fax No. : 6. E mail :	Certificate of registration of ownership.	
B.	Prospective purchaser : 1. Full Name : 2. Address : 3. Telephone : 4. Telex No. : 5. Fax No. : 6. E mail :	Duly signed agreement between owner and purchaser.	
C.	Demise Charterer if any : 1. Full Name : 2. Address : 3. Telephone : 4. Telex No. : 5. Fax No. : 6. E mail :	Duly signed agreement between owner and demise Charterer.	

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
D.	Manager, if any : 1. Full Name : 2. Address : 3. Telephone : 4. Telex No. : 5. Fax No. : 6. E mail :	Duly signed management agreement between owner and manager.	
E.	Designated Person (DPA) a shore : 1. Full Name : 2. Address : 3. Telephone : 4. Telex No. : 5. Fax No. : 6. E mail :		
9. A.	Classification Society and vessel's class	Classification Society acceptable for this Bid shall be a full time member of society of International Association of Classification Societies (IACS)	

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
B.	No. of years in present classification society		
10 A.	<p>The vessel shall have the following valid certificates on board.</p> <ol style="list-style-type: none"> 1. Certificate of Register 3. Load line Certificate 4. Safety Equipment Certificate 5. Safcon Certificate 6. Safety Radio Certificate with ship station license (EMDSS). 7. International Oil Pollution Prevention (IOPP) certificate 8. Certificate of classification of hull and machinery. 9. Builder's certificate 10. Recent (not more than 3 months from date of closing of Bid) Certificate of Continuous Bollard Pull Certificate certified to a Classification Society listed in item 9 A of the 'Schedule B: Format of Offer' or by a <i>competent authority acceptable</i> to CEYPETCO 11. Minimum safe Manning Certificate 12. ISM Certificate 13. ISPS Certificate 14. International Certificate of Compliance of Antifouling System. 15. International Sewage Pollution Prevention Certificate. 16. Cargo gear certificate for cranes and winches (chain register). 17. Documents <ol style="list-style-type: none"> (a) Stability booklet approved by class. (b) Tank calibration tables for all tanks approved by class (c) Any other new documents required to be included 	All Certificates to be kept valid during the period of charter at Bidder's own cost. Charterer has the right to verify the authenticity. Copies of all certificates to be submitted with the Bid. (Please attach copies of certificates together with annual endorsement to the offer sheet)	

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN 1 CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
B.	State whether Bidder will undertake to keep above certificates valid for period of charter lease.		
11. A.	Is the vessel equipped with nautical publications & navigational equipment in good working order in accordance with SOLAS 74 and its amendments?		
12.	<p>History of accidents including significant mechanical difficulties.</p> <p>Stranding, collisions or other serious occurrences over previous 12 months (including full details on additional sheet if necessary)</p> <p>When?</p> <p>Where?</p> <p>Circumstances :</p>		
13. A. B	<p>P & I club in which vessel is entered and limitation</p> <p>Vessel's insured value</p>		
14.A.	Does the vessel have a full compliment of certificated officers & crew in accordance with the requirement of Flag State?		
B.	License/Certificate of origin of Master and Officers :		
C.	Does the Master understand spoken and written English?		
D.	What steps have been taken by the Bidder to control consumption of alcohol on board the vessel ?		
E.	<p>Have any of the Master, Officers and crew members of vessel ever been convicted of any offence whatsoever concerning drug or alcohol abuse?</p> <p>If so, provide the date(s), nature and Details of the offence.</p>		

Bidder's Signature

Company Seal/Stamp

Schedule B Contd.

ITEM NO.	ITEM	COLUMN I CEYPETCO REQUIREMENT/ SPECIFICATION	COLUMN II BIDDER'S BID/ SPECIFICATION
15.	Details of employment of vessel in the last 2 year period from date of closing of Bids.		
16.	Names and address/es of local agent(s)	Please refer Sub Clause 1.3.2 of Section 1 and Sub Clause 2.7.4 of Section2 for further instructions.	
17.	Local Agent's commission if any		
18.	Validity of Bid	Valid for 120 days from the date of closing of Bids with provision to extend if necessary.	
19.	If all items required in the Bid specifications are not fitted, lists of such items & the written undertaking of Bidder to fit all such items prior to delivery of vessel in Colombo on date required by CEYPETCO.		
20.	If the Bid could be financed under any aid or credit line between the Bidder's country and the Government of the Democratic Republic of Sri Lanka, please state such available aid/credit line.		
21.	Registry.	The vessel shall have Sri Lanka Registry or parallel registration in Sri Lanka during the period of charter.	Agree / Disagree

Bidder's Signature

Company Seal/Stamp

ITEM NO.	Charter Duration	Two (2) Year Period
22	1. Time Charter Hire per day [Rate in figures and numbers in United States Dollars]	
	2. Rate for accommodation per person per day /meals per person per meal [Rate in figures and numbers in United States Dollars].	
	3. Interest rate applicable for delayed payments [Rate in figures and numbers in United States Dollars]	
23	Indicate whether Sri Lankan government taxes and dues are indicated in Item No. 22, 1 & 2 above.	
	If Yes, state the amount as a percentage.	
24	Early termination at Charter's Convenience	
	1. State Amount of compensation payable for early termination	
	2. Number of days' notice required for early termination	
	3. Demobilization charges if any applicable for early termination	
25.	Additional war risk premium in US Dollars per year if applicable, pertaining to time chartering of the vessel in question.	
26	Are you complying with the Sub Clause 2.9 of Section 2 pertaining to the inspection of the offered vessel?	Yes/No

I do hereby agree to abide and conform to all the terms and conditions mentioned in the Bidding document No. B/18/2020 and certify the accuracy of the statements given in this offer sheet and other documents provided with the Bid.

Name of Company /Bidder:

Signature:

Address:

Name of Signatory:

Date:

Designation:

Company Seal/stamp

Schedule C: STANDARD FORMS

Form A – Format of Bid Security (Bank Guarantee)

Whereas, [name of Bidder] (hereinafter called “the Bidder”) has submitted his Bid dated [date] for providing Services for [name of the Bid] (hereinafter called “the Bid”).

Know all people by these presents that We [name of Agency] having our registered office at [address] (hereinafter called “the Bank”) are bound unto name of Employer (hereinafter called “the Employer”) in the sum of [The Bidder should insert the amount of the Guarantee in words and figures] for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors, and assigns by these presents.

Sealed with the Common Seal of the said Bank this [day] day of [month], [year].

The conditions of this obligation are:

- (1) If, after Bid opening, the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid; or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of Bid validity:
 - (a) if the Bidder fails to accept the award within the stipulated time referred in Sub Clause 2.1.1; or
 - (b) fails or refuses to sign the formal contract specified in the Sub Clause 2.8.1 of the Section 2 of the Bidding document; or
 - (c) fails or refuses to furnish the Performance Security, in accordance with the Sub Clause 2.1 of the Section 2 of the Bidding document; or
 - (d) does not accept the correction of the Bid Price pursuant to Sub Clause 1.10 of the Section 1 of the Bidding document; or
 - (e) if the Bidder withdraws the Offer after Bid opening during the period of Bid validity; or
 - (f) if the delivered vessel does not conform to the agreed Bid specifications

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer’s having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or any of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date [29 days after the end of the validity period of the Bid.] days after the deadline for submission of bids as such deadline is stated in the bidding document or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any claim under this guarantee must be submitted to us within thirty (30) days after the expiry date.

Date Signature of the Bank.....

Witness..... Seal.....

.....

[signature, name, and address]

Schedule C Contd.

Form B – Format of Performance Security (Unconditional)

To: [name and address of Employer]

Whereas [name and address of Bidder] (hereinafter called “the Service Provider”) has undertaken, in pursuance of Contract No. [number] dated [date] to execute [name of the Bid and brief description of Services] (hereinafter called “the Contract”);

And whereas it has been stipulated by you in the said Contract that the Service Provider shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract ;

And whereas we have agreed to give the Service Provider such a Bank Guarantee;

Now therefore we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Service Provider, up to a total of [amount of Guarantee] [amount in words], such sum being payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of [amount of Guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Service Provider before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Services to be performed there under or of any of the Contract documents which may be made between you and the Service Provider shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Guarantee shall be valid for thirty months (30) from the date of furnishing.

Signature and seal of the Guarantor :.....

Name of Bank :.....

Address :.....

Date :.....

Schedule C Contd.

Form C – Format of Bunker Consumption and Operational Report

To: Ceylon Petroleum Corporation Month: (State the applicable month of the report)

Date:

Day	Quantity of Bunkers onboard the vessel (ROB)	Consumption during the day	Quantity of Bunker received	Main Engine running and Time Allocation for the Location (MEST – Main Engine Start, MESP- Main Engine Stop) (TI – Time in , TO- Time out)							Detail description of the type of operations of the vessel during the day	Remarks	
					IBW	South Pier	Mooring/Pre Mooring		Maintenance				other
							SPBM1	SPBM2	SPBM1	SPBM2			
1				TI									
				TO									
				MEST									
				MESP									
2				TI									
				TO									
				MEST									
				MESP									
30				TI									
				TO									
				MEST									
				MESP									
31				TI									
				TO									
				MEST									
				MESP									

Signatures & Seal:

.....

.....

Master of the vessel

Company Authorized officer

CPC / CPSTL Representative (Offshore Operations)

Note: 1. All movements including Mooring and Pre-Mooring should be properly described

2. All supporting documents should be annexed

Schedule D: CEYPETCO STANDARD SPECIFICATION OF BUNKER FUEL**A. SPECIFICATION FOR DIESEL FUEL**

PROPERTY / TEST	TEST METHOD		SPECIFICATIONS
	IP	ASTM-D	
APPEARANCE			CLEAR AND FREE FROM WATER & VISIBLE IMPURITIES
DENSITY @ 15° C KG/M ³	160	1298	MAX. 870
COLOUR ASTM	196	1500	REPORT
MARKETING COLOUR			AMBER
DISTILLATION :-	123	86	
IBP °C			REPORT
10% EVAPORATED °C			REPORT
50% EVAPORATED °C			REPORT
90% EVAPORATED °C			MAX. 370
RECOVERY @ 315 °C			MIN. 50
RECOVERY @ 350 °C			MIN. 80
CETANE INDEX OR		976	MIN. 45 **
CETANE NUMBER		613	MIN. 48
CLOUD POINT °C (°F)		2500	MAX. 15.5 (MAX. 60)
CFPP °C (°F)	309		MAX. 10 (MAX. 50)
SULPHUR CONTENT % (W/W)	61	129 OR 1552	MAX. 0.3
FLASH POINT PMCC ° C (° F)	34	93	MIN. 60 (MIN. 140)
VISCOSITY KINEMATIC @ 37.8 °C cSt.	71	445	1.5 - 5.0
WATER CONTENT % (V/V)	74	95	MAX. 0.05
COPPER STRIP CORROSION 3 HRS @ 50 °C	154	130	MAX. 1
ASH % (W/W)	4	482	MAX. 0.02
CARBON RESIDUE RAMSBOTTOM ON 10% RESIDUE % (w/w)	14	524	MAX. 0.3
SEDIMENT BY EXTRACTION %	53	473	MAX. 0.01
TOTAL ACID No. KOH mg/g	1	974	MAX. 0.2
STRONG ACID No. KOH mg/g	1	974	NILL
CALORIFIC VALUE (GROSS) K CAL/KG	12	240	MIN 10,500
** NOT APPLICABLE IF ANY CETANE IMPROVER ADDITIVE IS PRESENT			

Schedule D Contd.

B. SPECIFICATION FOR LANKA MARINE FUEL OIL (1500 Sec.)

PROPERTY / TEST	TEST METHOD		SPECIFICATIONS
	IP	ASTM-D	
DENSITY @ 15° C KG/M ³	160	1298	Max. 970
FLASH POINT PMCC ° C (° F)	34	93	Min 60 (140)
POUR POINT ° C (° F)	15	97	MAX 21.1 (70)
TOTAL SULPHUR CONTENT % (w/w)	61	1552	MAX 3.5
VISCOSITY REDWOOD No 1 @ 100 ° F			MAX 1500 SEC
VISCOSITY KINEMATIC @ 50 °C (122° F)	71	445	165-175
WATER CONTENT % (v/v)	74	95	Max 1.0
ASH %wt	4	482	Max 0.1
CONDRAISON CARBON % (w/w)		189	MAX 12.0
SEDIMENT BY EXTRACTION % w/w	53	473	MAX 0.25
ASPHALTENES m/m %	143	6560	Max 4.0
CALORIFIC VALUE (GROSS) K CAL/KG	12	240	MIN 10,200
STRONG ACID KOH/mg/g	1	974	NIL
METAL CONTAMINANTS			
VANADIUM		3605	Max 200 ppm
SODIUM + POTASIUUM		3605	Max 30 ppm
CALCIUM	501/470		Max 30 ppm
LEAD		3605	Max 15 ppm