



**MEE/NA1/138/ 2016 / Dy.CME (R&D)**

**BUDGETARY OFFER FOR SUPPLY, FABRICATION, ERECTION, TESTING AND  
COMMISSIONING OF FIRE FIGHTING SYSTEM TO COAST GUARD  
AT MADHUSUDAN JETTY IN CHENNAI PORT TRUST**

**SUBMISSION ON OR BEFORE 26.06. 2018**

**THE CHIEF MECHANICAL ENGINEER  
7<sup>TH</sup> Floor, Centenary Building  
Rajaji Salai, Chennai – 600 001.**

**BUDGETARY OFFER FOR SUPPLY, FABRICATION, ERECTION, TESTING AND COMMISSIONING OF FIRE FIGHTING SYSTEM TO COAST GUARD AT MADHUSUDAN JETTY IN CHENNAI PORT TRUST**

**TECHNICAL SPECIFICATION**

**SCHEDULE - 'A'**

**1.0 GENERAL**

Chennai Port Trust proposes to provide Fire Fighting System to Coast Guard at Madhusudan Jetty in Chennai Port Trust as a deposit work for berthing of Coast Guard Vessels of Indian Coast Guard.

**2.0. SCOPE OF WORK**

The Scope of Work includes Supply of pump set NRV, gate valves, foot valves, pipeline, pipeline fittings, M.S Plate, M.S angles, Pressure gauge etc., as per technical specification. Fabrication of beds for main pump, standby pump and pressure maintenance pump, Installation and alignment of pump and NRV, foot valve, & gate valves, Fabrication of pedestal for supporting fire hydrants main pipeline and grouting in wharf, Fabrication of double hydrants, laying of fire hydrant main pipeline with valves, Fabrication of ramp as per drawing, One pressure gauge to be fixed in main pipeline at pump room, Testing and Commissioning and guaranteeing the performance of the fire fighting system to Indian Coastguard at Madhusudan Jetty in Chennai Port Trust as specified herein and in the Schedule of Quantities and Prices governed by the other terms and conditions of the tender

**2.1 LIST OF EQUIPMENT/ MATERIALS**

<b>S.No.</b>	<b>Description</b>	<b>Requirement</b>
1.	Electric Motor Driven pump set, vertical turbine type, 4 stage in gland packed construction having discharge of 171m <sup>3</sup> /hr.at 79 meters head along with Motor stool/Sole plate, fastener, coupling and with 75KW @1450 rpm 415V, 3Phase, 50 Hz, flange mounted LT Electric Motor.	1 No.
2.	Electric Motor Driven pump set ; vertical turbine type, 6 stage in gland packed construction having discharge of 10.8m <sup>3</sup> /hr.at 80 meters head along with Motor stool/Sole plate, fasteners, coupling and with 7.5KW @2900 rpm 415V, 3Phase, 50 Hz, ,flange mounted LT Electric Motor.	1no.

3.	Diesel Engine Driven pump set vertical turbine type, 4 stage , in gland packed construction having discharge of 171m <sup>3</sup> /hr.at 79 meters head along with Gear box ,Propeller base plate/sole plate, foundation bolts, M.S fuel tank of capacity 150litres and with 105HP @1500 rpm radiator cooled electric start engine.	1No.
4.	150mm Non return valve conforming to IS:5312-1986 part II or latest..	2 Nos.
5.	100 mm Non return valve conforming to IS:5312-1986 part II or latest	1No
6.	150mm Sluice valve conforming to IS:14846-2000 or latest.	6 Nos.
7.	100mm Sluice valve conforming to IS:14846-2000 or latest	2Nos
8.	150mm Foot valve conforming to IS:4038-1986or latest	2Nos
9.	100mm Foot valve conforming to IS:4038-1986or latest	1 No.
10.	Cast iron class-C .150mm' dia.	350mtrs
11.	Cast iron class-C-100 mm dia	50 mtrs
12.	150mm Bend conforming to IS:9523-2000 or latest..	10.Nos.
13.	100mm Bend conforming to IS:9523-2000 or latest	2Nos
14.	150mm Tee conforming to IS:9523-2000 or latest	3Nos.
15.	100mm Tee conforming to IS:9523-2000 or latest	2Nos
16.	Steel clamps	80Nos.
17.	Bolt & Nut – 5/8 x 2”	350Kg
18.	Washer - – 5/8 x 2”	200Kg
19.	Insertion India Rubber - 3mm thick x 3' width	300 Kg
20.	Concrete Ramp suitable for 10” dia pipe as per drawing	1 No.
21.	M.S Class-C 200 mm dia pipe to protect the 150 mm pipe inside the ramp	12 Mtrs
22.	Pressure gauge range 0-16kg/cm <sup>2</sup>	1No.
23.	Double fire hydrant of size 65mm material alloy of copper nickel with minimum pressure 4Bar and flow rate 60 ton per hour	7Nos

## **WORKS TO BE EXECUTED**

<b>S.No.</b>	<b>Description</b>	<b>Requirement</b>
1.	Fabrication of beds for pump set	3Nos
2.	Fabrication & installation including of pump set with NRV ,Valves and Foot valves	3Nos
3.	Fixing of Clamps	80 Nos.
4.	Fabrication & laying of 150 mm dia Cast iron pipeline ,valves ,hydrants. and clamping with Pedestal	350 Mtrs
5.	Fabrication & laying of 100 mm dia Cast iron pipeline ,valves	50 mtrs
6.	Fabrication of Pedestal as per Trust Drawings. The same shall be grouted with wharf . Material : Stainless steel SAE 16.	115 Nos.
7.	Fabrication & fixing of hydrants as per Trust drawing	7Nos
8.	Construction of concrete ramp suitable for 10" dia pipe as per drawing	1 No.
9.	Painting Primer &Enamel Red	400 Mtrs.
10.	Testing & Commissioning of the Fire Fighting System	Lump sum

All the tools& tackles and consumables like welding electrode & cotton waste etc. required for the work shall be supplied by the firm at their cost

**The supply and works of this provision of Fire Fighting System shall be carried out as detailed and specified in Schedule 'A' and Schedule 'A1(BOQ)**

**Note:** For any clarifications, the firm may contact the Dy.CME(R&D) at 2<sup>nd</sup> floor of Old Administrative Building, Tel. Ph. 25312450.

**CHIEF MECHANICAL ENGINEER**

**BUDGETARY OFFER FOR SUPPLY, FABRICATION, ERECTION, TESTING AND COMMISSIONING OF FIRE FIGHTING SYSTEM TO COAST GUARD AT MADHUSUDAN JETTY IN CHENNAI PORT TRUST**

**SCHEDULE – A1  
SCHEDULE OF PRICES AND QUANTITIES (BOQ)**

Sl.No.	DESCRIPTION	UNIT	QTY	RATE PER UNIT (in Rs.)	TOTAL AMOUNT (in Rs.)
1.	Electric Motor Driven pump set, vertical turbine type, 4 stage in gland packed construction having discharge of 171m <sup>3</sup> /hr.at 79 meters head along with Motor stool/Sole plate, fastener, coupling and with 75KW @1450 rpm 415V, 3Phase, 50 Hz, flange mounted LT Electric Motor.	No.	1		
2.	Electric Motor Driven pump set ; vertical turbine type, 6 stage in gland packed construction having discharge of 10.8m <sup>3</sup> /hr.at 80 meters head along with Motor stool/Sole plate, fasteners, coupling and with 7.5KW @2900 rpm 415V, 3Phase, 50 Hz, ,flange mounted LT Electric Motor.	No.	1		
3.	Diesel Engine Driven pump set vertical turbine type, 4 stage , in gland packed construction having discharge of 171m <sup>3</sup> /hr.at 79 meters head along with Gear box ,Propeller base plate/sole plate, foundation bolts, M.S fuel tank of capacity 150litres and with 105HP @1500 rpm radiator cooled electric start engine.	No.	1		
4.	150mm Non return valve conforming to IS:5312-1986 part II or latest..	Nos.	2		
5.	100 mm Non return valve conforming to IS:5312-1986 part II or latest	No	1		
6.	150mm Sluice valve conforming to IS:14846-2000 or latest.	Nos.	6		

7.	100mm Sluice valve conforming to IS:14846-2000 or latest	Nos	2		
8.	150mm Foot valve conforming to IS:4038-1986or latest	Nos	2		
9.	100mm Foot valve conforming to IS:4038-1986or latest	No.	1		
10.	Cast iron class-C .150mm dia.	Mtrs	350		
11.	Cast iron class-C-100 mm dia	Mtrs	50		
12.	150mmm Bend conforming to IS:9523-2000 or latest..	Nos.	10.		
13.	100mmm Bend conforming to IS:9523-2000 or latest	Nos	2		
14.	150mm Tee conforming to IS:9523-2000 or latest	Nos.	3		
15.	100mm Tee conforming to IS:9523-2000 or latest	Nos	2		
16.	Steel clamps	Nos.	80		
17.	Bolt & Nut – 5/8 x 2”	Kgs	350		
18.	Washer - - 5/8 x 2”	Kgs	200		
19.	Insertion India Rubber - 3mm thick x 3’ width	Kg	300		
20.	Concrete Ramp suitable for 10” dia pipe as per drawing	No	1		
21.	M.S Class-C 200 mm dia pipe to protect the 150 mm pipe inside the ramp	Mtrs	12		
22.	Pressure gauge range 0-16kg/cm <sup>2</sup>	No	1		
23.	Double fire hydrant of size 65mm material alloy of copper nickel with minimum pressure 4Bar and flow rate 60 ton per hour	Nos	7		
	TOTAL				
	GST	Lump sum			
	<b>TOTAL (A)</b>				

<b>B) WORKS TO BE EXECUTED</b>				
1.	Fabrication of beds for pump set	Nos	3	
2.	Fabrication & installation including of pump set with NRV ,Valves and Foot valves	Nos	3	
3.	Fixing of Clamps	Nos.	80	
4.	Fabrication & laying of 150 mm dia Cast iron pipeline ,valves ,hydrants. and clamping with Pedestal	Mtrs	350	
5.	Fabrication & laying of 100 mm dia Cast iron pipeline ,valves	Mtrs	50	
6.	Fabrication of Pedestal as per Trust Drawings. The same shall be grouted with wharf . Material:Stainless steel SAE 16.	Nos.	115	
7.	Fabrication & fixing of hydrants as per Trust drawing	Nos.	7	
8.	Construction of concrete ramp suitable for 10" dia pipe as per drawing	Mtrs.	1	
9.	Painting Primer &Enamel Red	Mtrs	400	
10.	Testing & commissioning of the Fire Fighting System	Lump sum	Lump Sum	
	TOTAL			
	GST			
	<b>TOTAL B</b>			
	Total A			
	Total B			
	Grand Total A + B =			

(Rupees

only)

DATE:

SIGNATURE OF THE CONTRACTOR  
SEAL

## **GENERAL CONDITIONS:**

### **1.0: TAXES:**

- i) The Contractor will examine the various provisions of the Central Goods & Services Tax Act-2017 (CGST) / Integrated Goods & Services Tax (IGST) / Union Territory Goods & Services Tax (UGST), respective State's State Goods & Service Tax Act (SGST) also, as notified by Central / State Government and as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.
  - ii) The rate quoted by the Contractor / Supplier shall be inclusive of all Taxes and Duties other than GST. Applicable GST will be paid by ChPT based on the Tax Invoice.
  - iii) The financial evaluation will be based on the total Base Price quoted by the Contractor / Supplier excluding GST for Supply of Goods and Services
  - iv) The firm shall furnish the Tax Invoices as per GST Act/Rules in the name of the Chennai Port Trust by mentioning the GSTIN of ChPT and indicating amounts of GST separately. The GSTIN of Chennai Port Trust is 33AAALC0025B1Z9.
  - v) The Contractor / Firm shall remit the GST amount in the invoice to the Government within the due dates and also file the returns by mentioning the GSTIN of ChPT to enable ChPT to avail eligible input Tax Credit (ITC).
  - vi) The Contractor / Firm shall indemnify Chennai Port Trust from any loss of eligible ITC of GST paid by it to the Contractors / Suppliers based on their tax invoice, due to non-payment of GST or non-filing of GST returns by the Contractor / Firm or non-compliance of GST Act / provisions. The Contractor / Firm shall remit such GST amount with applicable interest and penalties to the ChPT within 7 days from the date of intimation by the ChPT about non-availing of eligible ITC. ChPT also reserves its right to deduct such GST amount with interest and penalties from the subsequent bills, Security Deposit or any amount due to the Contractor by ChPT.
  - vii) Applicable statutory recoveries including TDS under Income Tax, TDS under GST etc, provisions etc., will be deducted/recovered while accounting for or making payment to the Contractor/Supplier as per the applicable law.
- 1.1. The firm shall quote the Bank Account details for the payment through ECS along with PAN. A copy of the Pan Card shall be furnished alongwith copies of Self attested Statutory documents as applicable such as ESI Registration or exemption certificate as per ESI Clause in the Tender Document, GST Registration Number, EPF., any other Statutory documents for payment \_

### **2.0 COMPLETION PERIOD:**

The Supply of equipments, pipes and fittings etc and Fabrication Erection, Laying, Testing and Commissioning of Fire Fighting System shall be completed within 240 days from the date of receipt of Order.



### **3.0 PAYMENT TERMS:**

(a) 70% payment will be made for the supply items i.e, from SI.No.1 to 24 on delivery at site in good condition and acceptance of the same.

(b) 20% payment will be made for the supply items i.e., from SI.No.1 to 24 against testing and commissioning

(c) Balance 10% payment for the supply items i.e., from SI.No.1 to 24 and 100% payment for Labour charges for the works to be executed i.e., from SI.No.25 to 32 will be paid after commissioning the Fire Fighting System and acceptance in writing by the Trust Engineers.

(d) Income tax @ 2% with applicable surcharge & education cess shall be levied U/S 194 (c) of Income Tax Act 1961.

(e) The payment will be made within 30 days from the date of receipt of pre-receipted bill in the Trust's format and being certified by the Employer's representative.

### **4.0 LIQUIDATED DAMAGES/LATE DELIVERY CHARGES:**

The Liquidated Damages / Late Delivery Charges shall be deducted from any amount payable to or to be payable to the Contractor / Supplier including encashment of Performance Guarantee or any Securities / Guarantees, if any available with the Port Trust.

The Late Delivery Charges shall be ½% of the cost of Supply of Materials / Equipment/Works per week or part thereof ( a week is defined as 7 days inclusive of holidays) subject to a maximum of 10% of the total value of the Contract.

If the Contract / Supply Order is delayed after giving due notice, the Contract / Supply Order may be cancelled by the Competent Authority with the condition that any additional expenditure incurred by the Port Trust in completing the work/supply order will be recovered from the contractor/supplier of the cancelled contract/supply order for non-performance/delay in the execution of the contract/supply

### **5.0 Validity:**

The validity period for the offer shall be 180 days from the date of opening of Tender

### **6.0 Guarantee Period:**

The entire works and materials performances shall be guaranteed for a period of 12 months from the date of acceptance of the work by the Trust

## **7.0 Security Deposit:**

- (i) The person who's tender or any portion of who's tender is accepted, the firm must within 21 days of receipt of notice of such acceptance or within such extended time as may be allowed, by the Chief Mechanical Engineer at his discretion, deposit a security of **10% of the Total value of the contract** as mentioned below.

The Contractor should deposit 10% of the total contract value as security deposit towards due fulfillment of the conditions of the contract. The security deposit should be paid within 21 days from the date of receipt of the order by way of Account Payee Demand Draft /Banker's Cheque / Fixed Deposit Receipt / Bank Guarantee from a Nationalised Bank or online payment in favour of Chairman, Chennai Port Trust payable at Chennai failing which necessary interest @ 18% per annum on security deposit amount will be levied for the delayed remittance and will be recovered in 1<sup>st</sup> Running Bill from the date of receipt of order to the date of remittance of money. 50% of the security deposit will be refunded after completion and acceptance of the contract and balance 50% will be retained till the satisfactory completion of the guarantee period and refunded thereafter.

- (ii) On receipt of full deposit as arrived at in clause (11) above in any manner aforesaid the Earnest Money submitted with the Tender will be refunded. No interest will be allowed on the earnest money from the date of its receipt until it is refunded. Alternatively the successful Tenderer shall when his tender is accepted, furnish security as specified in Clause (11) above after giving credit to the amount deposited by him as Earnest Money. The Earnest Money shall retain its character as such, till the Security Deposit is furnished by the Tenderer..

## **8.0 ESI Clause:**

The details of employees proposed to be engaged shall be furnished to this office before the commencement of the work.

- (a) As per the Govt. Notification dated 20.07.2009, Chennai Port Trust has registered under the ESI Act on 26.09.2012 with ESI Corporation and provision of ESI Act, 1948 are applicable to Chennai Port Trust, a Social Security Act, is applicable to Factories using power and employing 10 or more personnel and establishment employing 20 or more persons and drawing wages/salary upto Rs.15,000/- per month. Workers covered under ESI Act, are entitled for full medical care for self and family. Besides, cash benefit in the event of sickness, maternity and employment injury. Accordingly, the contractual/casual employees drawing wages upto Rs.15,000/- per month employed either directly by Port Trust or through contractor are covered under ESI Act, 1948. It is obligatory on the part of the employer to calculate and remit ESI contribution comprising of employers' share of 4.75% plus employees' share of 1.75% which is payable on or before 21<sup>st</sup> of the following month, to which the salary relates.

- (b) In case of Contractor employs more than 20 employees, they should register their name with ESI as per ESI Act, 1948 and obtain ESI Code. Both Employers share of 4.75% and Employees contribution of 1.75% (recovered from employees), totally 6.5% to be paid as contribution to ESI in their Code on or before 21<sup>st</sup> of following month to which the salary relates and acknowledgement for the same shall be submitted to the Port while claiming the bill. The bill without the acknowledgment of ESI contribution will not be entertained. In case the contractor has not paid the ESI contribution same will be recovered in the running bill and paid to the ESI Corporation in contractor's code. The delay in payment of contribution payable under the Act may be recovered as an arrear of Land Revenue.
- (c) In case the contractor employs less than 20 employees, the list of employees' names, their father's name, identification proof, one passport photo shall be submitted to the Port Trust. The contribution of ESI amount, both Employers share of 4.75% and Employees contribution of 1.75% (recovered from Employees salary), totally 6.5% shall be paid by the Contractor in the Chennai Port Trust Code on or before 21<sup>st</sup> of the following month to which the salary relates or otherwise payment to the contractor will be withheld. If the contractor fails to comply with the above instruction, then the Principal Employer (Chennai Port Trust) will make payment to the ESI Corporation. Such amount will be deducted from any amount due to the contractor. The delay in payment of contribution payable under the Act may be recovered as an arrear of Land Revenue.
- (d) As per the above government Notification;
- i) All intending quotationer/tenderer at the time of Quotation shall disclose all necessary documents as to whether they are covered under ESI Act or not.
  - ii) In case they are covered under ESI Act, they have to furnish the details of registration.
  - iii) In case the quotationer/tenderer does not possess ESI Registration at the time of participation in the Quotation/tender, then they should obtain registration under ESI Regulations before award of the work by Chennai Port Trust and submit the same within 30 days from the date of issue of work order. Any payment towards the work order will be made only after the ESI registration.
  - iv) The Quotationer shall submit his first bill together with evidence of having obtained registration under ESI regulations and only then the bill will be processed for payment. Subsequently, the Quotationer/tenderer should periodically submit to Chennai Port the Form 6 prescribed under ESI Regulations along with the proof for having remitted his dues under ESI Regulations in respect of the workers / labours employed for the work

awarded by Chennai Port to facilitate making payment for the bills of the Contractor.

v) In case, the Contractor is not covered under ESI Act or exempted, they would furnish necessary documents along with an affidavit in original affirming before a first class Judicial Magistrate in a Non Judicial Stamp Paper worth Rs.20.00 to that effect.

vi) In case they are not covered under ESI Act, they must additionally indemnify ChPT against all damages & accident occurring to his labour in a Non – Judicial Stamp paper worth Rs.100/-.

#### **9.0 Employees Provident Fund and Miscellaneous Provision Act 1952:**

The Act provides for monthly contributions by the employer plus workers @ 10% or 8.33%. The benefits payable under the Act are:

- i) Pension or family pension on retirement or death, as the case may be.
- ii) Deposit linked insurance on the death in harness of the worker.
- iii) Payment of P.F. accumulation on retirement / death etc.

#### **10.0 OTHER CONDITIONS:**

- i) The Tenderer are requested to inspect the work areas of the Port before quoting the offer.
- ii) The tenderer shall not sub-let the contract.
- iii) Chennai Port Trust will not be liable for any altercation/accident during the Contract period.
- iv) Contractor shall be solely responsible for any damage to the Trust property.
- v) Chennai Port Trust being a protected Industry, the person deployed by the Contractor for this service will not indulge in any illegal/Anti-Social/Anti-National activities.
- vi) No Men, Materials, Testing Equipments, Food & Accommodation, Transport will be provided throughout the work departmentally.
- vii) The Trust will not be responsible for any loss or damage of the men/materials /tools/ plants engaged by the firm during the work at site or transportation.
- viii) Contractor shall not give, barter or otherwise dispose of to any person or persons any arms or ammunition of any kind or permit or offer the same as aforesaid.
- ix) No advance payment will be made.

- x) Admission into the Harbour is regulated by issue of passes (valid for one week) for the Contractor and his Staff and the same shall be obtained by the Contractor at their own cost with the approval of Port Officials. These passes shall be accompanied by identity cards valid for the entire period of the Contract. The Contractor is solely responsible for all the details incorporated in the passes and the identity cards and the Trust is indemnified against their misuse.
- xi) One Temporary Power Supply will be provided by the Trust on request by the firm at work site and the consumption of electricity will be charged as per Board's rate in force as per Scale of Rates.

The Contractor should make Security Deposit and Consumption Charges will be as per TNEB Norms for Temporary Connections. The Security Deposit will be refunded after the Completion of the Works.

- xii) The Contractor shall take utmost care during the execution of the work, if any damage to Port Property, the cost of the damage shall be deducted from the Contractor's bill.
- xiii) The Chief Mechanical Engineer reserves the right to award any portion of the work or to drop the work altogether at his discretion without assigning any reasons

**CHIEF MECHANICAL ENGINEER**