

COCHIN PORT TRUST

Office of the
Chief Mechanical Engineer
Cochin-09.

No.E/FP Fenders/21-M

Dated: 26-04-2021

NOTICE INVITING BUDGETARY OFFER

Budgetary offers are invited for the Supply of following items at Cochin Port Trust:-

Sl. No.	Name of the Item	Quantity
1	Floating Pneumatic Fender. Size (3300 mm dia. X 4500 mm Length), Initial Internal Pressure 50 kPa, Colour-Black.	04 Nos.
2	Floating Pneumatic Fender. Size (2000 mm dia. X 3500 mm Length), Initial Internal Pressure 50 kPa, Colour-Black.	08 Nos.

Brief Technical Specification of the Floating Pneumatic Fenders and Terms & Conditions are attached as ANNEXURE-I. The bidders are requested to furnish the budgetary offer in the attached price schedule format.

If any of the specifications/parameter of the items offered by the bidder vary with reference to the specification given by CoPT (minor or major), the bidders are requested to specify the variations in specifications/parameter in the budgetary offer and also furnish technical write up of the product offered. Any accessories /attachments which are not indicated in the attached specification but are essentially required for the safe operation / handling of the item at site may also be clearly indicated in the budgetary offer along with its cost.

The budgetary offer may be sent to the Chief Mechanical Engineer, Cochin Port Trust, Willingdon Island, Cochin-682009 by e-mail given below on or before 05-05-2021 at 17.00 Hrs.

The bidders may note that the offers are invited only for budgetary purpose to arrive at the estimate. Cochin Port is not bound to purchase the items from the bidders based on the budgetary offer submitted.

Encl. Technical Specification & Price Schedule

Sd/-

CHIEF MECHANICAL ENGINEER

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ANNEXURE-I

TECHNICAL SPECIFICATION OF FLOATING PNEUMATIC RUBBER FENDERS.

A	PRINCIPLE PARTICULARS:-	3.3 m X 4.5 m, 50 Kpa- 04 Nos.	2.0 m X 3.5 m, 50 Kpa -08 Nos.
1	Fender Size : Diameter in mm	Not less than 3300 mm	Not less than 2000 mm
2	Fender Size : Length in mm	Not less than 4500 mm	Not less than 3500 mm
3	Applicable International Standard Number for Material Properties and Performance Parameters of Pneumatic Fender	ISO 17357-1:2014	
4	Fender Type	Chain Tyre Net Assembly Type	Chain Tyre Net Assembly Type
5	Initial Internal Pressure	50 kPa	50 kPa
6	Fender Colour	Black	Black
7	Safety Valve shall be provided for releasing excess internal pressure when fenders are over compressed accidentally.		
8	Identification System is required		
B	CONSTRUCTION		
1	Fender Body shall consists of three parts viz.(i) Outer Rubber Natural Rubber or Chloroprene Blended Rubber, (ii) Synthetic – tyre cord & Natural Rubber layer for reinforcement and (iii) an inner layer –Natural Rubber. All the three layers shall be vulcanized firmly.	Total thickness shall not be less than 12 mm	Total thickness shall not be less than 20 mm
2	Physical Properties of Rubber compound shall be as per ISO 17357-1:2014 and the Manufacturer’s test certificate shall be reviewed and endorsed by TPI Agency to confirm the requirement.		

3	Fender shall be provided with the following Accessories:		
(i)	Stainless Steel Flange Opening shall be provided at both ends for fixing air valve at one end and Safety Valve on the other end;		
(ii)	Shackles and swivel shall be provided at both ends for lifting purpose;		
(iii)	Guy Ropes with sufficient strength shall be provided	8 strand Poly- Propylene Mooring Rope 64 mm dia X 20 m long with one end thimble with master link and another end 2 meter eye canvas protected (MBL 72 Tons) with Class certificate mooring rope and conformity certificate. Mooring rope to be provided at both end of the Pneumatic Fendor.	
	Metallic parts shall be hot dipped galvalised Steel suitable for marine applications.		
C	PERFORMANCE PARAMETERS		
	Guaranteed Energy Absorption (GEA) at (60± 5) % Deflection	308 KNm	1175 KNm
	Reaction Force	875 KN (Tolerance±10%)	1884 KN (Tolerance±10%)
	Safety Valve Setting pressure:	1.5 kg/cm ²	1.8 kg/cm ²
	Testing Pressure :	1.5 kg/cm ²	2.3 kg/cm ²

CERTIFICATION OF PNEUMATIC FENDERS:-

The supplier shall furnish the following test certificates issued by any one of IACS Member Classification Society (Third Party Inspection Agency): -

- (1) Material Test Certificate confirming the requirements specified in ISO 17357-1:2014.
- (2) Hydrostatic Pressure Test to confirm that there is no leakage & Temporary elongation to be witnessed by TPI as specified in ISO 17357-1:2014;;
- (3) Safety Valve Test to confirm the performance of Safety Valve to be witnessed by TPI as specified in ISO 17357-1:2014;;
- (4) Marking of Fenders for identification to be witnessed by TPI as specified in ISO 17357-1:2014;

TERMS & CONDITIONS:-

1. Delivery Terms- F O R Cochin Port project site (cost for transportation and loading / unloading shall be included in the offer)
2. Delivery Period- 60 days from the date of issuing of Purchase Order.
3. Payment Terms -100% after acceptance of the Item at Cochin Port.
4. Guarantee: The Pneumatic Fender shall be guaranteed for a period of twelve months from the date of installation / commissioning or eighteen months from the date of supply whichever is earlier.

PRICE SCHEDULE- BUDGETARY OFFER

Name & Address of the Bidder:

Sl. No.	Description of Item	Quantity	Unit Price (Rs.)	Total Price (3)x(4)	GST in figure& in %	Total Price(INR) (5)+(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Floating Pneumatic Fender. Size (3300 mm dia. X 4500 mm Length), Initial Internal Pressure 50 kPa, Colour-Black (including TPI charges).	4 Nos.				
2	Floating Pneumatic Fender. Size (2000 mm dia. X 3500 mm Length), Initial Internal Pressure 50 kPa, Colour-Black.(including TPI charges)	8 Nos.				

Signature

Note:-

- 1) The bidder shall quote the price in Indian Rupees only.
- 2) The bidder also indicate the GST clearly in percentage in Colum (6).
- 3) Price shall be quoted F O R Cochin Port Trust.
- 4) Please mention the delivery period.
- 5) Please attach the product literature of quoted item.