

Mac-N-Hom Marine Equipments (P) Ltd

57/187-C, 'VRINDAVAN' Chilavannur Road,

Kadavanthra.P.O. Kochi-682 020 Kerala

Ph: (0484) 2312396 / 2319998.

E-mail:- info@macnhomsystems.com. Website: www.macnhomsystems.com

Ref : MME/ QN /156 /2021-22

Dt:28-09-21

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Kind Attn: Mr. Sekar

Dear Sir,

Sub: Offer for 'Mac-N-Hom' make IRS Type Approved Hydraulic Steering System with JumboZ-2800- 2 Sets and Manual steering for the system, against your enquiry

Sl. No	Description/Specifications	Qty	Unit Price (Euros.)	Amount (Euros)
01.	<p>'Mac-N-Hom' make Hydraulic Steering System for Rudder Control System:Model: JumboZ-2800x2 E Consisting of:</p> <p>A)Hydraulic Linear Actuator - IRS Type Approved -Torque: 2800Kg.m with 300mm Tiller arm -Hydraulic Thrust: 9590 Kgf. each -Angle of Tilt: Upto 45 Degrees to both Sides -Working Pressure: 70 Kg/cm2 -Ram Size:50mm -Stroke: 440mm (Material of Construction, Design and Testing Approved by M/s Indian Register of Shipping(IRS)) Model: JumboZ-2800</p> <p>B) Tiller arm Assembly -Double Ended Type -Turn upto 45 degrees Both Sides. - With Mounting Pins for Hydraulic Actuators. - Mounting Pin Locking Nuts and Cotters.</p> <p>C) Rear End Bracket Assembly - For Mounting Hydraulic Actuator rear end. - With Mounting pins for Hydraulic Actuators. - Mounting Pin Locking Nuts and Cotters.</p> <p>D) Connection Rod assembly - Connection Rod of about 5 metre Length. - Two piece construction for ease of mounting. - Cond Connection Pins, Lock Nuts and Cotters</p>	<p>2 Sets of 2 Nos. 4 Actuators</p> <p>1 Set of 2 Nos.</p> <p>1 Set of 2 Nos.</p> <p>1 Set.</p>		
				Contd..2/-

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	<p>E) <u>Hydraulic Powerpack</u> of - Crompton/Kirlosker make 5HP,3 Phase, 1440rpm Electric Motor- 1 Nos. -Hydraulic Pump Assembly-1 Set.. -Coupling Assembly- 1 Set. -Settable Pressure Relief Valve Assy-1 Set. -Filler Breather, Suction Strainer,NRV-1set -Glycerine Filled Pressure Gauge- 1 Set. -Temp. Sensor and Indicator for alarm- 1 Set -Hydraulic Pressure Sensor for alarm-1 Set -Hydraulic Oil level Sensor for alarm-1 Set -Fabricated, Coated Steel Tank-80 Litres capacity - without Hydraulic Oil.(Servo-32-100 ltrs x2) - Provision of Manual Changeover of valves from Hydraulic lines of One Powerpack to Other</p>	2 Sets.		
	<p>F) <u>Routing of Pressurised Hydraulic Oil:</u> -Heavy Duty Seamless Steel Tubes with coating , -Ferruled Fittings and Heavy Duty Hyd. Cons- 1 Set. -Heavy Duty Pressure Hoses & End Fittings- 1 Set. Of total length 70 metres (35m x 2lines)</p>	1 Set.		
	<p>G) <u>Electrical Control Panels</u> with <u>Joy Stick Controls</u> with <u>Powerpack Controls</u> and <u>Electrical Change over of controls</u> from one Powerpack to another.</p>	1 Set.		
	<p>H) <u>Rudder Angle Indicator</u> with -Analogue Display: +/- 35 Degrees - Feed Back sensor unit - Connection Rod with Swivel Rod eyes to connect Sensor to Tiller arm - Cable assembly- 40 metrs. length with end connectors - Control Voltage- 24VDC</p>	2 Sets.		
				Contd..3/-

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Sl.No	Description/Specifications	Qty	Unit Price (Euros)	Amount (Euros)
	I) <u>Audio-Visual alarms provided</u> - Hydraulic Oil Low Level in powerpack tank - Hydraulic Pressure low - Hydraulic Oil Temperature high. - AC power Failure - DC Power Failure - Tiller arm Hard Port Position. - Tiller arm Hard Starboard Position.	1 Set.		
	<u>Manual Emergency Steering Assembly</u> with - Stainless Steel Steering Wheel_Drive with - Steering wheel of 20" Dia with Steel Hub- 1 No. - Steering Column with Spline Drive- 1 No. - Hemp Pump Assembly with - Helm Pump- 1 Set. - Vertical Mounting Bracket Assembly-1 Set - Hydraulic Connectors Assembly-1 Set - Separate Steel piping to Actuators - Double Check valve with Connectors.	1 Set.	21450.00	21450.00
Euros. Twenty thousand Six hundred and Eleven only				21450.00

TERMS AND CONDITIONS

- Hydraulic Oil of VG32 Grade (Servo-32, Mak-32, Elklo-32 or equivalent)- 200 Litres will be Yard Supply.
- Charges for IRS Type approval documents and our affidavit with serial number and punch mark details of **Hydraulic Actuators** -Euros: 360 / Certificate.
- Price : CIF Manila. (We have considered Euro:3500 as Frieght+ Insurance+ Cochin Port Handling Charges, as on date. Any Change in these charges on despatch date will reflect in final CIF valve)
- P & F : Included.
- GST : Presently NIL. Please inform HSN Code of Product.
- Delivery : 7-8 Weeks from Date of receipt of PO with Advance.
- Payment : 50% Advance along with P.O.
Balance against Proforma Invoice, Before Despatch.
Our Bank account for deposits:
Canara Bank, Kadavanthra Br. Account No: 1859256005168
IFS Code: CNRB0001859.

Contd..4/-

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8. Warranty : One year from the date of supply against any manufacturing defects.
9. Validity : 30 days from the date of offer.

Hope the above offer is in tune with your requirement and you will release the Purchase Order at the earliest.

Thanking you,

Form No: 083

Yours faithfully,
For Mac-N-Hom Marine Equipments P Ltd
Sageesh Poovalappil
Director- Finance & Marketing
Mob: 90729 00576