

Essfour Engineering Private Limited

TECHNICAL BROCHURE

About ESSFOUR

- ▶ Estb:- 2015
- ▶ Company registered as a Pvt Ltd Company with Registrar of Companies (U17120GJ2013PTC075155)
- ▶ Location- Gujarat and Goa
- ▶ Area – A total of 11000 Sq mtr in two different location along Zuari River
- ▶ Owner/ Share holders : Smt. Anuradha Thakur & Shri. Amit Kumar
- ▶ No of staff – 127
- ▶ Compliance to Labor law, PF, Gratuity etc

Capabilities

- ▶ Shipbuilding-

Vessels up to 600 Ton of light ship

Side launch & Balloon launching

- ▶ Ship Repairs

Being attempted, can attempt in collaboration with a PSU

- ▶ Engineering works

- ▶ Tie up with M/s Archetype, Goa for Ship design

On Going Works

- ▶ 01 Multi Utility Vessel : Project Value : 16.5 Cr
- ▶ 02 Multi Utility Tug : Project value: 25.0 cr
- ▶ 01 Self Propelled Pontoon: Project value: 3.5 Cr
- ▶ 01 Service Boat : Project value: 1.25 Cr

Limitations

- ▶ Water depth in river 3.2 mtrs
- ▶ Rains/ low water level in river
- ▶ Require assistance from Customer in terms of staggered payment including 15% of Contract value at the time of contract signing

Projects executed

- ▶ Turnkey repairs – Afloat as well as Dry docking repairs of ships.
- ▶ Project management
- ▶ New construction of ships
- ▶ Living quarters fit-out works
- ▶ Design of ships and Floating structures
- ▶ Engineering support in design and construction of specialist marine equipment
- ▶ Consultancy work

Ship Repair – In situ Repairs To Shaft Sleeve INS Chakra

Job description

- ▶ In situ machine was designed after preparing a mock-up that simulated the space inside a submarine.
- ▶ The machine was transported to site and shaft sleeve was machined, a spigoted shaft sleeve in two halves were inserted, secured by grub screws, welded and finish machined to size within 0.02 mm tolerance on the diameter.
- ▶ Entire job completed in 24 continuous shifts without any break.
- ▶ Commendation letter by ASD (Visakhapatnam)

Machined groove



Engg Works - Spooling Winch



- ▶ Design, manufacture and supply of spooling winch capable of spooling hoist wire of 900T Huisman Crane under pre-tension of 15 tonnes.
- ▶ Spooling of the Crane wire.
- ▶ Customer : Essar Subsea

Repairs Of Samudra Prahari

- ▶ Mechanical, electrical, piping and structural outfit repairs on Indian Coast Guard vessel Samudra Prahari consisting of the following:
 - ▶ Overhaul of 4 Electro Hydraulic cranes.
 - ▶ Overhaul of hydraulic windlass and capstans.
 - ▶ Removal / refit of 900 m piping of various sizes.
 - ▶ Overhaul of 400 valves of various sizes
 - ▶ Overhaul of 35 centrifugal, gear and screw pumps
 - ▶ Overhaul of 180 electrical motors from 0.5 HP to 120 HP.
 - ▶ Overhaul of Switchboard and switchgears.
 - ▶ All Hull outfit jobs
 - ▶ Servicing of Helo Hangar system including Landing grid



Repairs On INS Jyoti

- ▶ Repairs and reconditioning of 33 Nos. Centrifugal pumps on Replenishment tanker INS JYOTI.
- ▶ Job included casting and renewal of 15 Bronze impellers, design and manufacture of 33 mechanical seals (indigenisation of spares)
- ▶ Manufacture of 12 SS shaft
- ▶ Dynamic balancing of shafts and impeller assembly.
- ▶ Performance test of pumps in the shop to full rated capacity.

Survey Vessel

- ▶ Project Management including detail engineering, procurement management and construction of 22 m Survey vessel with Voith propulsion for SADHAV SHIPPING.



Survey cum Pilot Launch



Length : 24.5 Mtr

Beam : 5.5 Mtr

Depth : 3.0 Mtr

Draft : 1.8 Mtr

Notation: RSV Type
"4"

Class : IRS

Conversion To RSV-II Oil Tanker



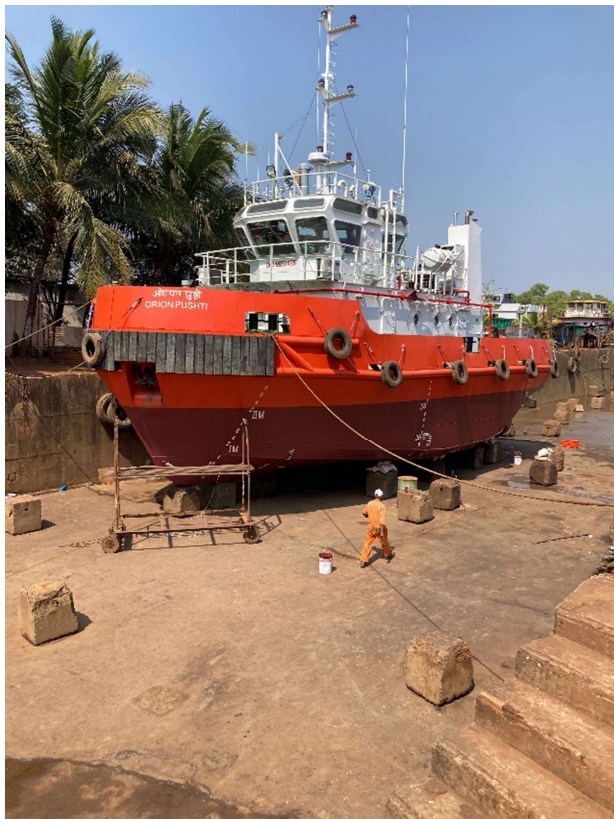
- ▶ Length : 69.8 Mtr
- ▶ Beam : 13.4 Mtr
- ▶ Depth : 4.45 Mtr
- ▶ Draught(Loaded):
3.2 Mtr
- ▶ Cargo Oil Capacity: 1700 Ton
- ▶ Class: IRS

Advertisement Barge-02 No's



- ▶ Length : 26.0 Mtr
- ▶ Beam : 10.0 Mtr
- ▶ Depth : 2.5 Mtr
- ▶ Draught : 0.9 Mtr
- ▶ First of it's kind in India
- ▶ Class: IRS

10 Ton Bollard Pull Tug



- ▶ Length: 20.0 mtr
- ▶ Breadth: 7.5 mtr
- ▶ Depth : 3.2 mtr
- ▶ Draft: 2.3 mtr
- ▶ Notation : RSV Type"4"
- ▶ Class: IRS

Patrol Boat for CISF



- ▶ Length: 14.0 mtr
- ▶ Breadth: 3.92 mtr
- ▶ Depth: 2.24 mtrs
- ▶ Draft: 0.75 mtrs
- ▶ Speed: 25 knots @ 90% MCR
- ▶ Class: RINA

Passenger Vessel



- ▶ Length: 31.27 mtr
- ▶ Breadth: 8.0 mtr
- ▶ Depth: 2.5 mtrs
- ▶ Draft: 1.0 mtrs
- ▶ Class: IRS

15 Ton Bollard Pull Tug, MS "9": 04 Nos



- ▶ Length: 24.2 mtr
- ▶ Breadth: 8.0 mtr
- ▶ Depth: 3.4 mtrs
- ▶ Draft: 2.45 mtrs
- ▶ Notation: MS Class "9"
- ▶ Class: IRS

Deck Loading Barge : 02 Nos



- ▶ Length: 55.0 mtr
- ▶ Breadth: 18.0 mtr
- ▶ Depth: 3.0 mtrs
- ▶ Notation: Indian Coastal Service
- ▶ Class: IRS
- ▶ Deck Loading: 15 Tons/Sq Mtr

Ambition & Aspiration

5 Year Plan

- ▶ Construct a Graving dry dock of dimensions 125 mtr X 25 mtr (Ratnagiri/Rambili)
- ▶ Commence ship repair vertical
- ▶ Be a 50 Crore company by 2028

10 year Plan

- ▶ Construct a second graving dock of 125 mtr X 25 mtr
- ▶ Commence Naval & Coast Guard repair
- ▶ Be a 100 crore company by 2033



Thank you