



Goa Shipyard Limited



Best Performing DPSU Shipyard of MoD

Passion for Excellence



Uttar Pradesh Defence Expo - 2018

At
Kanpur

14th -16th November 2018

Goa Shipyard Limited

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GSL - INTRODUCTION



- Strategically located on the banks of the River Zuari, just 2 miles from Mormugao Port
- World Class contemporary facility with State of Art Technology

Web address of Goa Shipyard Limited

www.goashipyard.in

Goa Shipyard Limited

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STRENGTHS

- Strong R&D with in-house design
- Sophisticated **CAD-CAM** facility knit seamlessly with ERP
- State of the art infrastructure for Shipbuilding
- Fastest growing Shipyard in the country with more than 40% YoY growth in VoP (turnover)
- Excellent MoU rating for 2016-17 & 2017-18 with 100% score
- Largest exporter of Defence Vessels from South Asia
- Unique track Record of before time deliveries
- Consistent track record of 'Quality' products





PRODUCT PROFILE

Goa Shipyard Limited

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PRODUCT PROFILE - OPVs

90m OPV



SL OPV



NOPV



CG OPV



105m AOPV



102m OPV



PRODUCT PROFILE



35 Kn FPV



STS



Mauritius FPV

Missile Crafts



Mauritius FIB



DIVERSIFIED PRODUCTS

Over 20% VoP from Diversified Products

Damage Control Simulator



SMB



COP



1000T Barge



SSTF



12m Boat



SBTF



Boats of Various Sizes and Types



12 T Interceptor Boat



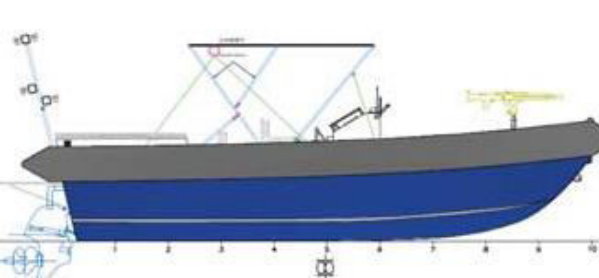
05 T Interceptor boat



12 T Modified Patrol Boat



19 m FRP Patrol Boat



07 M FRP RHIB



05 T FRP Patrol Boat



12 M FRP RHIB

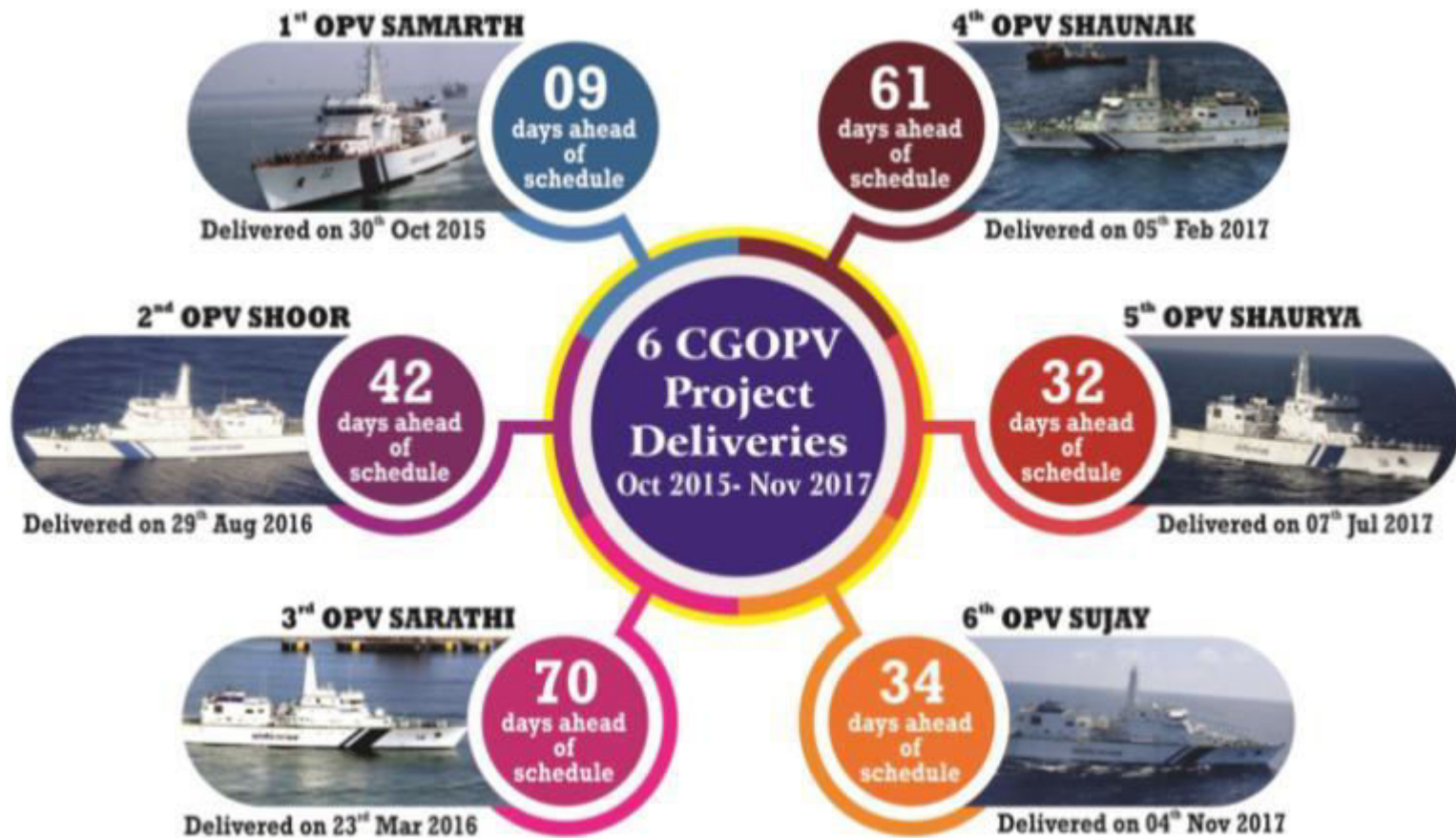
PROVEN TRACK RECORD IN SHIPBUILDING

Total Deliveries as on date	371
• Naval Vessels	66
• Coast Guard Vessels	28
• Export	35
• Others	86
• High Speed FRP Interceptor Boats	157

Only Shipyard in the country with consistent track record of delivering ships ahead of schedule



Six CG OPV Project – May 2012 to Nov 2017



- Highly successful Project with all deliveries ahead of contractual schedule
- 06 OPVs delivered within 2 years, with interval of 05 months between two deliveries
- Reduced 'Build Period' of 36 months as against 67 months for NOPVs
- 62% indigenous content
- Superior in all performance parameters including speed, endurance, turning circle etc.



EXPORTS

Goa Shipyard Limited

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Celebrating
1957 - 2017
60
Glorious Years

Export of Defence Products

Sri Lanka

2 X 105 m AOPV

(1st AOPV delivered on 22 Jul 2017)

Project 2014 - 18



Mauritius

➤ 2 X 50 m, 35 Kn FAC
(Delivered)

➤ 11 Fast Interceptor Boats
(Delivered)

Project 2014 – 7- Completed



Myanmar

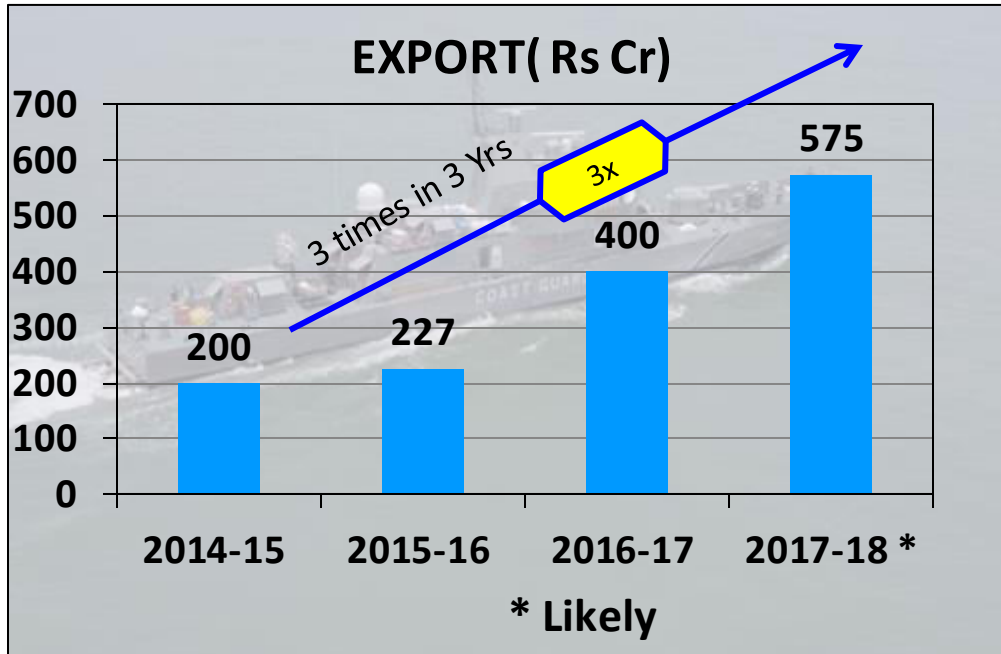
One Damage Control Simulator

(Delivered)

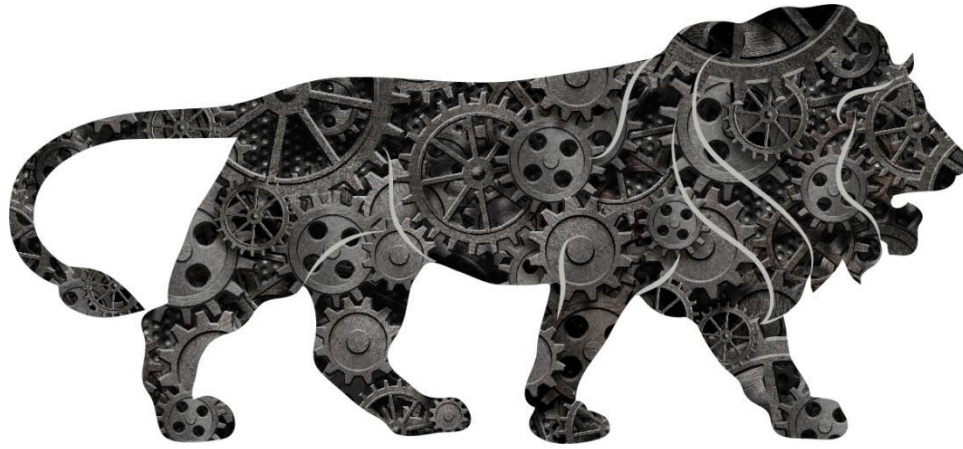
Project 2014-16 : Completed



EXPORTS IN LAST 3 YEARS



- Emerged as largest exporter of ships/vessels, with 40% of Turnover from Exports
- Awarded RM's Award for 'Best performance in Exports' amongst all DPSUs' - 2014-15



MAJOR FUTURE PROJECTS

Make in India



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Design Effort Own Initiative Project 14-15



Best Performance in Exports 14-15

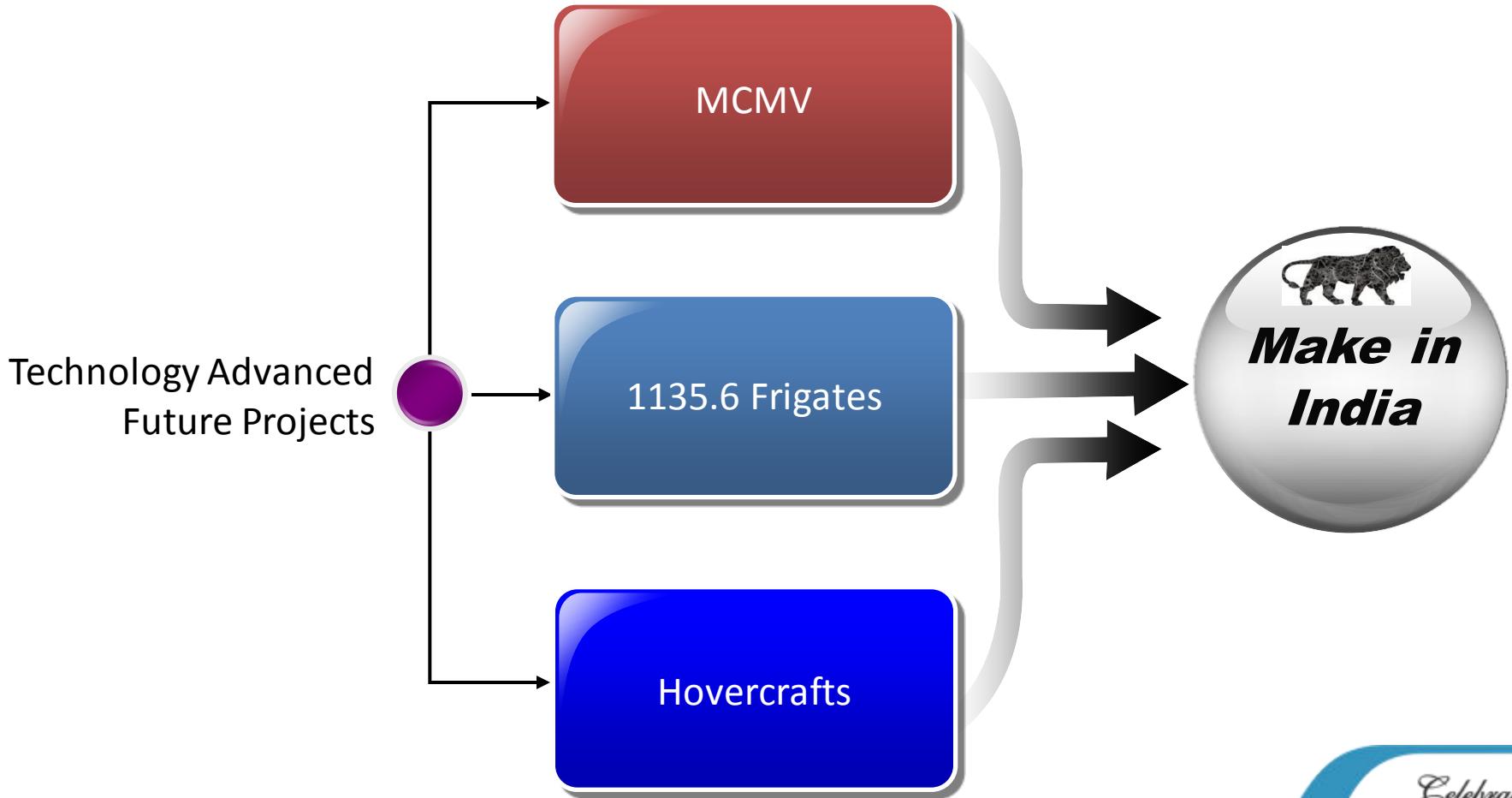


Best Performing Shipyard of MoD 15-16



Scope Award Turnaround 14-15

FUTURE PROJECTS - IMPORT SUBSTITUTE



Mine Counter Measure Vessels (MCMV)



- Qty - **12 ships**
- Only Shipyard in Indian Subcontinent to construct MCMV with Technologically Advanced GRP Hull



PROJECT 1135.6



- Construction of 02 Advanced Missile Frigates under ToT from Russia – significant indigenous content
- Production expected to commence by Mid 2020
- Highly weapon intensive platforms



INDIGENIZATION EFFORTS

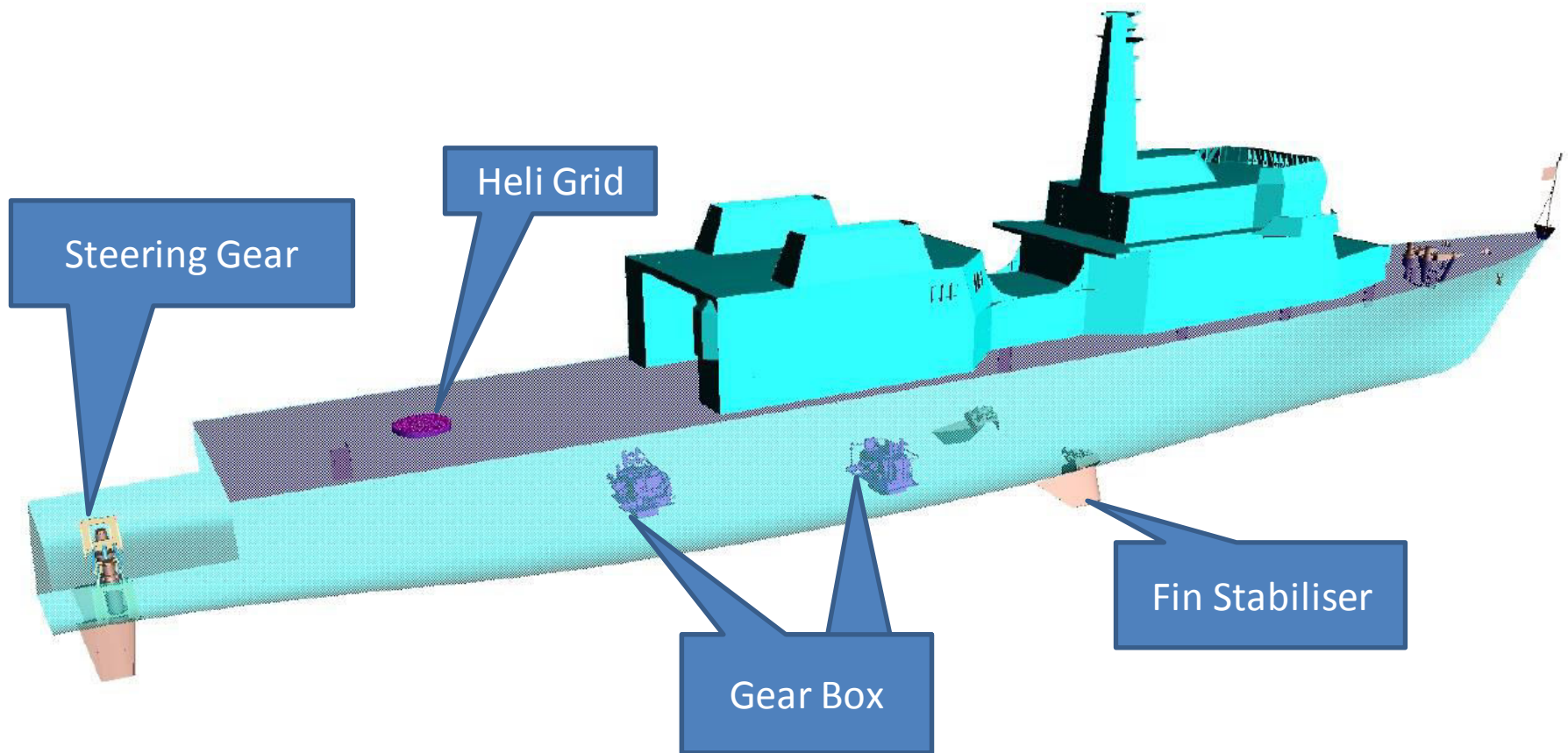
Make in India

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GSL'S INDIGENIZATION EFFORTS ONGOING 05 CG OPV PROJECT



...and many more

GSL'S INDIGENIZATION EFFORTS (10 YEARS)

Float

- Steel Plates (Essar Steel)
- Doors (Water tight & Weather tight)
- Boat
- Helo landing Grid
- Scuttles
- Modular Accommodation
- Accommodation Ladder
- Anchor Chain

Move

- Gear Box
- Steering Gear system
- Fin Stabilizer
- Winch for Bulwark
- Stern Gear
- Mooring Capstan
- Anchor Windlass
- Window wiper
- Anchor

Fire

- SRGM Gun- BHEL
- Kavach Launcher- GCF
- CRN91 Gun – OFB
- SOP MKII – BEL
- EON 51 - BEL
- HMG & MMG Gun - OFB
- AK 630 Guns – GSF
- ESM Sanket –BEL
- Weapon Transformer -
- CTD –BEL
- Frequency Convertor – KEC

GSL will make efforts to improve indigenisation inline with MoD directives promulgated on 02nd Aug 2018

INDIGENIZATION

www.goashipyard.co.in/make-in-india/nodal-officers-to-promote-make-in-india

Goa Shipyard Limited Celebrating 60th Anniversary

CRISIL Long-Term "AAA" Short-Term "A1"

Home About Us HRD Services Products Clients Facilities Annual Reports Vigilance Vendor CSR Gallery Tender Careers

Nodal Officers to Promote Make In India

nation's needs".

RAdm. Shekhar Mital NM, IN (Retd.)
CMD, GSL

Make In India

- > Policy Initiatives (Indiginization, Outsourcing and Vendor development)
- > Make In India Policy
- > Item Identified for Indiginization with Volume and Cost
- > MCMV Kick Off Meet
- > Nodal Officers to Promote Make In India

Manufacturing the equipment indigenously for Import Substitute in Ship Building Industry.

Equipments/Items	Name and designation	Contact Information
HULL	Mr. Thomas Verghese, AGM (Desgn/Hull)	0832-2513827 Email: thomasverghese@goashipyard.com
Engineering	Mr. Mahesh Malkarnekar, GM (Design/Engg)	0832- 2514194 Email: mahesh@goashipyard.com
Electrical	Mr.G.G.Shanbhag, AGM (Design/Electrical)	0832-2514183 Email: ggshanbhag@goashipyard.com
OutSourcing	Mr L V Raykar AGM(Out Sourcing)	0832-2517295 Email: lvraykar@goashipyard.com
MCMV		

6:26 PM 1/5/2018

Nodal Officer's details

INDIGENIZATION POLICIES

- Items identified for indigenization as part of “ Make in India”
 - List of 37 items published on GSL website www.goashipyard.co.in/make-in-india/
- Implemented Purchase preference policy in line with Public Procurement Order (Preference to Make in India) 2017 dated 15 June 2017 giving preference to Indian Manufacturers over Foreign Vendors by way of incentive to promote Indigenization.
- Assuring Orders to vendors successfully developing import substitute.
- Promulgated Start-up Policy in line with GoI guidelines.



INDIGENIZATION POLICIES

- MoD notified two separate lists of 30 items and 4 items reserved for indigenization for surface ships in line with preference to Make in India Policy. The same will be implemented by GSL progressively.
- Payment terms to Domestic firms including MSEs relaxed for
 - Enhanced liquidity
 - Level playing field vis-à-vis Foreign vendors





INITIATIVES TO ENCOURAGE MSES

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Design Effort Own Initiative Project 14-15



Best Performance in Exports 14-15



Best Performing Shipyard of MoD 15-16



Scope Award Turnaround 14-15



INITIATIVES TO ENCOURAGE MSES

- Provisions of M/o of MSME Order, PPP-2012 implemented
- Additionally following initiatives taken to promote MSES
 - SD Exemption for MSES registered with NSIC for supply of goods.
 - Liberalised Payment Terms.
 - Advance Payment.
 - Payment through Trade Receivable Electronic Discounting System (TReDS).
 - Mechanism to track and monitor timely payment to MSES.
 - Reserved 18 Shipbuilding items for exclusive procurement from MSES over and above list of 358 items.

Visit GSL website: www.goashipyard.co.in.



GSL'S EFFORTS TO ENCOURAGE MSEs

- Purchase Preference over non MSEs
- Published tentative annual demand for procurement from MSEs on GSL website.
- Collaborative arrangement with NSIC for enhanced procurement from MSEs.
- 10 % discount for “ Type Approval” Certification by IRS to MSEs owned by SC/ST entrepreneurs.
- Procurement of commonly used Goods & Services through GeM platform.



PROCUREMENT THROUGH MSEs

Year	2016-17	2017-18	2018-19	Rolling Average for 2015-18
% increase	33.39	30.41	45.8*	39.38

** As on. Sept. 2018*

Progressive increase of procurement from MSE vendors during last 3 years (in %)

In pursuance of MSME order 2012, GSL persistently procuring Goods and Services from MSE vendors, exceeding minimum mandatory procurement target of 20%





MAKE IN INDIA

VENDOR DEVELOPMENT



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Best Performance in Exports 14-15



Best Performing Shipyard of MoD 15-16



Scope Award Turnaround 14-15

VENDOR DEVELOPMENT

- Regular conduct of vendor meets.
- Active participation in vendor meet at Regional as well as National level.
- Facilitating yard visit for vendors for interaction with stakeholders at GSL and understand requirement.
- Association with MSME Goa, NSIC and nearby industrial cluster.
- Imparting training on TReDS to MSEs.



VENDOR DEVELOPMENT

- Instituted inland LC for domestic vendors.
- Provision of advance payment to MSEs against security.
- Outsourcing Policy for core and non-core activities.
- Handholding of local firms.
- Unleashed incentive of exemption from Security Deposit to MSEs registered under NSIC for supply of goods.



GLIMPSE OF VENDOR DEVELOPMENT PROGRAM

**Defence
Expo
Goa, Mar
2016**



**Vendor meet
Belgaum,
July 2018**



**MSME
Vendor
meet,
Goa
Aug 2017**



**Expo &
Seminar by
NSIC
Coimbatore,
Aug 2016**



GLIMPSE OF VENDOR DEVELOPMENT PROGRAM

**MSME Expo,
Thrissur, Feb,
2018**



**Vendor meet
by DPSU,
Chennai, Apr
2018**



**MSME meet,
Margaon, Jul
2017**



**MSME meet,
Margaon, Aug
2017**



GLIMPSE OF VENDOR DEVELOPMENT PROGRAM



GSL participated at Special Vendor Development Program arranged by National SC-ST Hub at Kolhapur ; 28 July 2018

GLIMPSE OF VENDOR DEVELOPMENT PROGRAM



National Vendor Development Program for MSEs owned by SC/ST Entrepreneurs at GSL, Goa; 16 June 2017

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GLIMPSE OF VENDOR DEVELOPMENT PROGRAM



Training on TReDS , GSL , May 2018

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GLIMPSE OF VENDOR DEVELOPMENT PROGRAM



Vendor Development Program, GSL , 1st Nov. 2018

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Design Effort Own Initiative Project 14-15



Best Performance in Exports 14-15



Best Performing Shipyard of MoD 15-16



Scope Award Turnaround 14-15





ONLINE VENDOR REGISTRATION PROCESS

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Design Effort Own Initiative Project 14-15



Best Performance in Exports 14-15



Best Performing Shipyard of MoD 15-16



Scope Award Turnaround 14-15



ONLINE VENDOR REGISTRATION PROCEDURE

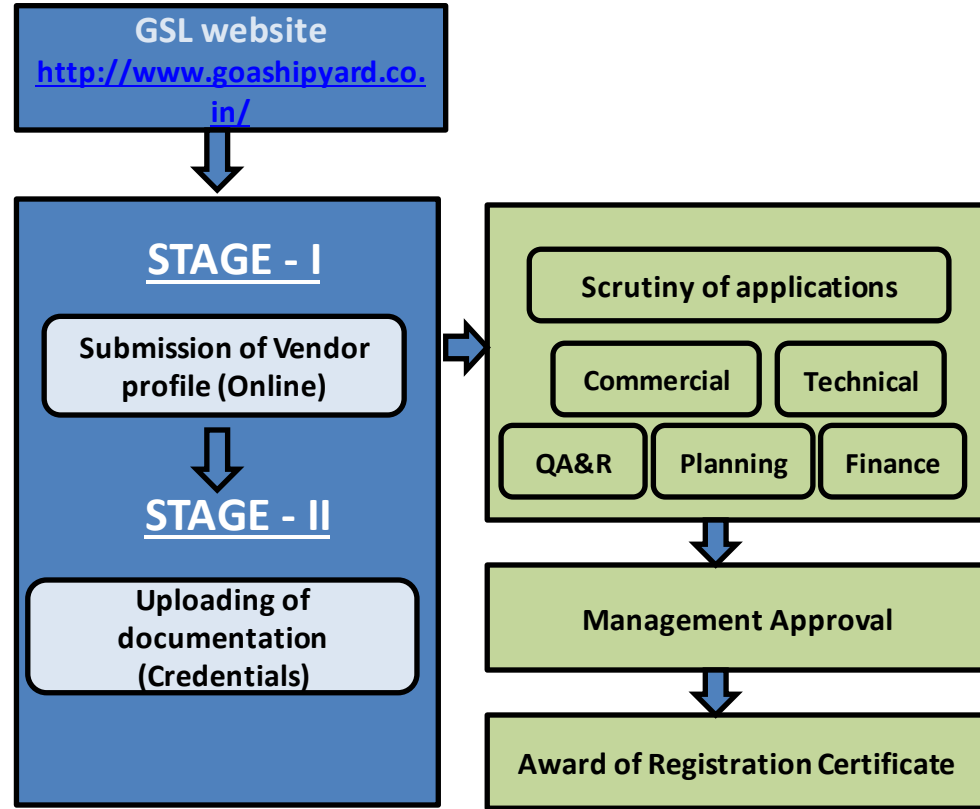


- Company particulars
- Confirmation regarding registration with DPSU

- Uploading of Scan documents
- Catalogue, Financials, QAP Process, Experience etc

- Evaluation by GSL

- Approval by GSL
- Issue of registration certificate



Contact : Ms. Asmita Prabhu Dessai, Manager (Commercial)

Email : asmitaprabhudessai@goashipyard.com **Phone :** 0832- 2500456

ONLINE VENDOR REGISTRATION PORTAL

www.goashipyard.co.in

The screenshot shows the website's header with contact information (91-832-2512152 / 2513954 / 2512359, contactus@goashipyard.com) and navigation links (National Portal, Home, GST, Contact Us, Sitemap, Feedback). The main banner features the Goa Shipyard Limited logo, a 60th anniversary celebration (1957-2017), and various logos including Dofexpo DEFEXPO 18 India, Make in India, and the Ministry of Defence. A navigation menu includes Home, About Us, HRD, Services, Products, Clients, Facilities, Annual Reports, and Vigilance. A dropdown menu is open under 'Vendor', listing: Vendor Status, Vendor Registration Policy, **GSL Online Vendor Registration System** (highlighted), Vendor Holiday Policy, Requirement of New Vendors, Vendor Rating Process, Vendor Registration Form, Application for Enrollment as Civil Contractor, ECS/RTGS Mandate Form for Suppliers, and Terms and Conditions. A red arrow points from a callout box to the highlighted link.

Click here for Vendor Registration

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ONLINE VENDOR REGISTRATION PORTAL

Goa Shipyard Limited | ProcureTiger

Secure | <https://gslvrs.procuretiger.com/EPROC/>

Goa Shipyard Limited Vendor Registration System
A Govt. of India Undertaking- Ministry of Defence

Home | About us | Contact Us | FAQ

09/03/2018 17:35:57 IST | Contact: +91-79-40270592/64/55/66/69/91/07/93/59/79 | Support@abcProcure.com

[Login or Register](#)

Our Products

- ProcureTiger
- TenderTiger
- AuctionTiger
- SupplierTiger

Download

- SSL root certificate
- Winzip
- PDF reader
- Signer component
- SSL Trust Chain
- Manual to Install SSL Trust Chain
- SSL patch for Windows XP
- SSL Patch for Windows

Advertisements

Dear Sir/Madam,

This has reference to your request through Ministry of Defence on vendor registration for supplies and services to Goa Shipyard Ltd [GSL]. This is to inform that Goa Shipyard Ltd is a leading Public Sector Unit [PSU] & Govt. Of India Undertaking, working under Department of Defence production, Ministry of Defence engaged in construction of sophisticated warships for Indian Navy and India Coast Guard. GSL is a Miniratna Company & looking forward for registration of vendors.

Manufacturers/suppliers/Business Associates who are interested in business association with GSL are requested to fill-in the preliminary registration details as per given below format to the undersigned by return mail alongwith online registration in our portal.

For New Registration please use "sign-up /register"

For knowing Updation / renewal/ completion of registration please use "login"

Registration process is in 2 stage :

STAGE 1: Preliminary submission

STAGE 2: Submission of credentials

For grievance please email us on : raviprakash@goashipyard.com

Please give us your valuable feedback.

Call us on 0832-2514081

Also email us at vivekksail@goashipyard.com & raviprakash@goashipyard.com

Vendor has to enrol with valid email ID

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ONLINE VENDOR REGISTRATION

✓ Stage- I

Secure | https://gslvrs.procuretiger.com/EPROC/bidderregistration

PROCURE TIGER **Goa Shipyard Limited Vendor Registration System**
A Govt. of India Undertaking- Ministry of Defence

Home About us Contact Us FAQ
09/03/2018 17:38:34 IST Contact: +91-79-40270592/64/55/66/69/91/07/93/59/79 Support@abcProcure.com Login

Bidder registration [Go back](#)

Note: Company name could not be changed once profile details are submitted.

(*) Mandatory fields

Email ID*

Password*

Confirm password*

Hint question*
- Select your hint question -

Hint answer*

Person name*

Company/Individual name*

Country*
India

State*
Goa

City*

Phone no.

Mobile no.*

Website

Time zone*
(GMT+05:30) Bombay, Calcutta, Madras, New Delhi

Business category keywords *

Registered In

<input type="checkbox"/> DGQA	<input type="text"/>	Choose File	Browse	Upload
<input type="checkbox"/> MDL	<input type="text"/>	Choose File	Browse	Upload
<input type="checkbox"/> GRSE	<input type="text"/>	Choose File	Browse	Upload

Firm has to fill complete details

Basic Details of Firm

Registration details , if registered with any other DPSUs or DGQA, CGHQ,IHQ

Contd..



ONLINE VENDOR REGISTRATION


CGHQ


IHQ

DPSU

Industry Type*

Industry Classification*

Verification code*


(If you cannot read the text, you may get new Verification Code by clicking )

I agree to the terms & conditions and privacy policy of this website.

✓ **Stage- I**

Registration details registered with any other DPSUs or DGQA, CGHQ, IHQ

Micro, Small, Medium or Large

Upload MSE certificate if applicable

Submit

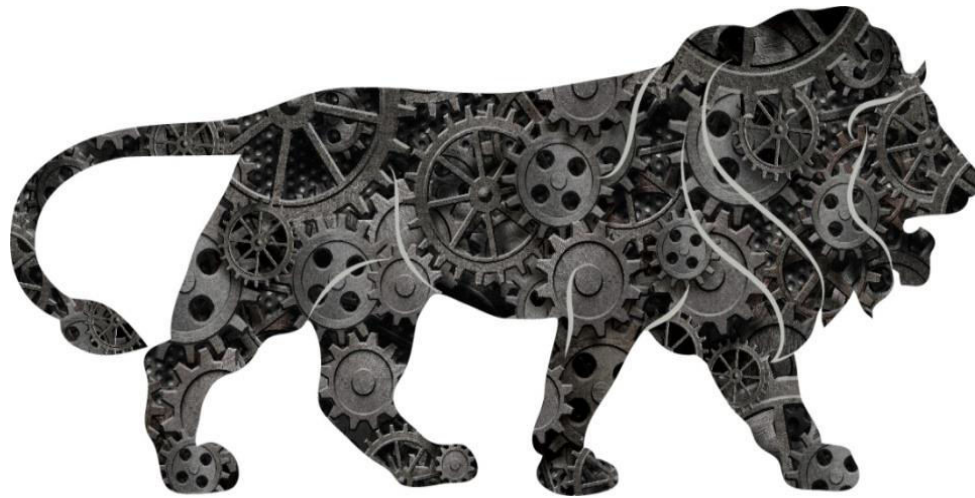
Note:

1. Foreign vendors willing to do registration with local authorized channel partners have to send authorization and contact details for pursuance.
2. Vendors already registered are requested to refer vendor code & DSC registration details for vendor augmentation and updation of categories

DEEMED REGISTRATION & RENEWAL

- Firm registered with any other DPSUs, DGQA, IHQ , CGHQ, NSIC will be Deemed to be registered with GSL for respective category.
- The registration fee will not be applicable to such vendors for direct deemed registration
- Renewal on self certification





OPPORTUNITY FOR DOMESTIC VENDORS

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KEY AREAS OF PROCUREMENT

Goods	Core Equipment <ul style="list-style-type: none">• Hull• Engineering• Electrical• Weapons & Sensors
	Non-Core items <p>Outfitting items, Yard material, Spares & Consumables , P&M</p>
Services	Outsourcing of Core activities <p>Block Fabrication, Hull Construction etc.</p>
	Outsourcing of Non-Core activities <p>AMC, BRC, Housekeeping, Security etc.</p>

ITEM IDENTIFIED FOR INDIGENIZATION

Steel & Aluminium Ships

Hull	Engineering	Electrical
A-60 Class Window	Main Propulsion Engine	Multi Cable Transit
Electro Hydraulic Articulated Folded Crane	Gearbox	Long Range Acoustic Device
8 Men Capacity Inflatable Boat	CPP Stern Gear System	Binoculars Night Vision
Rigid Inflatable Boat	Integrated Machinery Control System	Optical Binocular
Probe receiver system	External Fire Fighting Pump	Haandheld Uncooled Thermal Imager
	Tunnel Thruster	Emergency Position Indicating Radio Beacon
	Oily Water Separator	Search And Rescue Transponder
	Incinerator	Infra Red Internal Communication System
	Air Whistle	GPS Compass

Celebrating

1957 - 2017



Glorious Years



INCINERATOR



Sr No.	Technical Description
1	Marine incinerator should have following characteristics:
1.1	Having a thermal capacity of minimum 1,80,000 KCAL/HR.
1.2	Capable of burning all shipboard waste, including galley garbage.
1.3	Capable of burning solid waste and sludge simultaneously. Incinerator will be batch loaded for solid waste; however sludge will be fed continuously.
1.4	The incinerator should have IMO certificate and should satisfy the requirements from the major classification societies, IMO and other Maritime Authorities.
1.5	Incinerator should be of sturdy, compact design and high performance. Incinerator should be of automatic control type with PLC controller and should be supplied as a complete "package" consisting of all the components mounted on a common base frame.
2	Scope of supply generally consists of
2.1	Sludge circulating pump and heater.
2.2	Main combustion chamber.
2.3	Spark arrestor, flue gas fan and flue gas damper.
2.4	Diesel oil tank, (having approx. capacity of 400 lit.).
2.5	Electrical control panel with all necessary safety systems, alarms, instrumentation.

Annual requirement:
Approx 2 nos. per year

The use / application of the product:

To burn all shipboard waste including galley garbage, solid waste and sludge within the vessel meeting Annex V of MARPOL 73/78 regulations.

AIR WHISTLE



Annual requirement:
Approx 2 nos. per year

Sr No.	Technical Description
1	Air whistle should meet SOLAS 1974 regulation and its amendments and international regulations of prevention of collisions at sea (IMCO) 1972.
2	Air whistle complete with solenoid electric operation for 24V DC and 230V AC input voltage.
3	Suitable to operate on compressed air at inlet pressure of 30 kgs/cm ²
4	Robust construction to withstand tropical climatic conditions.
5	Type approved by Class Viz. ABS/LRS
6	Air whistle should be equipped with a lever for manual operation.
7	Scope of supply generally consists of
7.1	Air whistle unit consisting of 1. Horn with main body, 2. Diaphragm (stainless steel), 3. Solenoid valves one each for 230 V.A.C. and 24 V.D.C supply. 4. Heater
7.2	Heavy duty air filter with moisture separator.

The use / application of the product:

Used for signalling purpose during navigation of vessel

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QUICK CLOSING VALVE



Annual requirement:
Approx 25 nos. per year

Sr No.	Technical Description
1	Quick closing valve (QCV) and Cabinet for Pneumatic Control should have following characteristics:
1.1	Quick closing valve should be suitable for fuel oil, Lub oil and Avcat oil tanks with pneumatic release system. The system shall be type approved by ABS
1.2	QCV Material : Body : Cast steel to GGG-40, Disc, seat ring, spindle, piston rod: S.S. to AISI 304, hand wheel: Cast steel to GG25 End connections (Flange) : OD, PCD, No. of bolt holes and Dia. of holes conforming to DIN ND10 STD. The valves will be of different sizes like 15 NB to 80 NB
1.3	Cabinet for Pneumatic Control / Release system complete with adequate capacity air bottles (capacity to be indicated in the offer) sufficient to close all connected valves twice, actuating levers, pressure gauges, low air pressure alarm alongwith buzzer, non return valve adjacent to the air receiver in the supply line and other associated fittings required for proper functioning of the system shall be supplied.

The use / application of the product:

Used for signalling purpose during navigation of vessel

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A-60 CLASS WINDOW



Annual requirement:
Approx 2 nos. per year

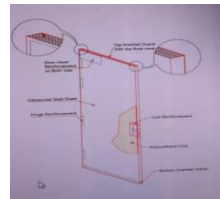
Sr No.	Technical Description
1	A-60 class Window (with bolted deadlight) type approved by Classification Society.
2.	A-60 windows are to be fitted on Mild steel watertight sub division bulkhead below freeboard deck between engine rooms & MCR and MCR aft bulkhead. The frame of the window should be suitable for welding on to MS bulkhead conforming to Class Rule.
3	<u>RULES & REGULATION, MATERIAL & CERTIFICATION:</u> as applicable as per Rules & Regulations of Classification Society



A, B & C FIRE CLASS DOORS



Sr No.	Technical Description
1	A-0, A-60, B-0 and C-Class Fire Class Doors complete with Frame and Accessories for fitment onboard ship
2.	Fire class Doors are provided on board ships to achieve fire class integrity as per class requirement as required between fire pro zone and other compartments. Frames are Doors should suitable for welding/bolting on the Mild steel & Fire Class Panels
3.	RULES & REGULATION, MATERIAL & CERTIFICATION: as applicable as per Rules & Regulations of Classification Society
4.	Brief Specification
4.1	Door frames should be suitable for welding/bolting on the steel bulkheads/25mmthick B-O Class panels/Aluminum plane panel 4.0mm thick as indicated in the Drawing (Drawing will be attached). In case of bolting, necessary neoprene rubber packing, stainless steel fasteners with 10% extra, and any other fittings required for fixing the doors are to be supplied with each door.
4.2	The doors should be water resistant and resistant of harboring of vermine
4.3	All the doors are to be provided with decorative laminate fixed to the door blade on both sides. The colour of decorative laminate should be of pure white suede finish
4.4	Doors should be capable of being opened from either side. Suitable locking arrangement, key, handles etc. are to be provided for each door
4.5	All the doors should be provided with Master Keys
4.6	All doors are to be provided with Hydraulic Door Closers, Retaining Hooks and Cylindrical Mortise (CM) lock and handle.
4.7	Doors to be fitted on the 25mm thick B-0 panels should be supplied with counter frame suitable for B-0 panel with fasteners.
4.8	All B-0 and some C-class doors are to be provided with Kickout Panels with Ventilation Louvers.
4.8	Class type approval certificates for the A-0, A-60, B-0, and C-class shall be provided as per requirement of Regulations



Annual requirement:

**Approx 120 nos.
per year**



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A, B & C FIRE CLASS PANELS



Annual requirement:
Approx 500 Sqm.
per year

Sr No.	Technical Description
1	25mm thk. B-0 class self-standing partition Bulkhead of 600x2400mm with all necessary-joining profiles
2.	Fire class panels are provided on board ships to achieve fire class integrity as per class requirement between fire prone zone and other compartments. Panels are sandwich type construction with fire class insulation at centre clad with mild sheet or aluminium sheet as per the requirement fire integrity.
3.	RULES & REGULATION, MATERIAL & CERTIFICATION: as applicable as per Rules & Regulations of Classification Society
4.	Brief Specification
4.1	The B-0 Class panels are to be supplied with suede finish pure white colour decorative laminates on both sides .
4.2	The surface finish of all the profiles except Top & Bottom Profiles and Spline profiles should be PVC coated or vinyl coated or powder coated to pure white colour.
4.3	All profiles are to be supplied at a length of 2400mm each.
4.4	The thickness of panel should be 25mm and panel should be suitable to be used as self-standing bulkhead panel.
4.5	The panel should be suitable to hold the weight of normal bulkhead mountings such as cabin fan, switch, sockets, book shelves (weighting approx. 25 kgs.) etc.
4.6	Details/ information's are to be provided like Type approval certificate of B-Class panels from ABS. Drawings/sketches of all the Documentary evidence/ proof of whether the firm is having ISO 9000 certification

Celebrating

1957 - 2017



Glorious Years



WATER TIGHT HYDRAULIC SLIDING DOOR



Annual requirement:
Approx 2 nos. per year

Sr No.	Technical Description
1	Electro-Hydraulic watertight horizontal sliding door with local operation and remote control operation from wheel house .The doors should be complete with all accessories, installation material and control panel meeting latest SOLAS rules Clear opening of the doors should be 1500mm (height) X 600mm (width).
2.	Provided between Machinery compartment and other compartments below water line to achieve water tight integrity as per Class requirement. Provision shall be made to operate Doors remotely from Wheel house as per class requirement
3.	RULES & REGULATION, MATERIAL & CERTIFICATION: Electro Hydraulic water Tight sliding doors should be complying SOLAS regulation and should be type approved by Classification society.
4.	Brief Specification
4.1	The item should essentially consist of doors, cleats, wheels, rollers, track way, cylinder, hand pumps, tanks, tanks piping bhd./deck/tee connections manoeuvring valves, clamps to suit pipes etc.
4.2	W.T sliding doors should be operable from both the sides of bulkhead on which it is fitted as well as from the remote station. Remote operation station for both doors will be in the wheelhouse, hand pump, oiltank and visual alarm for remote operation of both doors will be fitted in the wheelhouse.
4.3	The maneuvering valve for choosing between opening and closing motion is to be capable of being controlled from all three places i.e....from either side of the door and from remote station.
4.4	Doors frame should be suitable for welding on 7.0 thk. ABS GR'B' mild steel bulkhead. Clear opening of the doors should be 1500mm (height) x 600mm (width).
4.5	The door should be capable of being closed and opened by means of each double acting pump and should conform to latest SOLAS & Class rule requirement. The time necessary for complete closure of the door should be as required by latest SOLAS & Class rule requirement
4.6	The required hydraulic piping and connections for the remote operation per ship shall be provided along with door.

1957 - 2017



Glorious Years



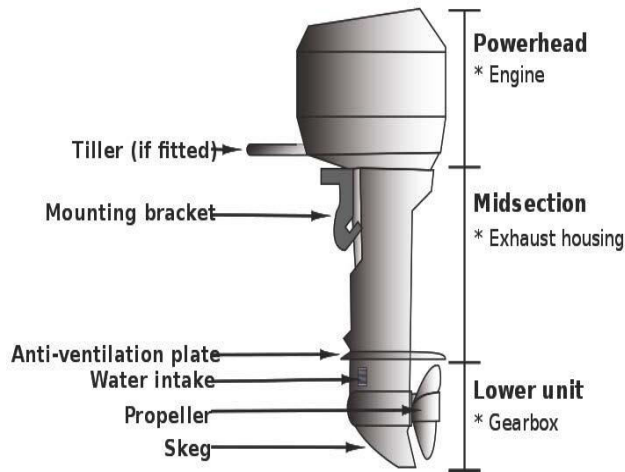
ELECTRO HYDRAULIC ARTICULATED FOLDED CRANE (KNUCKLE BOOM TYPE)



Annual requirement:
Approx 2 nos. per year

Sr No.	Technical Description
1	Electro Hydraulic Articulated folded crane (Knuckle boom type)
2	<p><u>CAPACITY:</u></p> <p>SWL of 2.0 tonnes at 4.0 m steplessly increasing to tonnes at 9.0 m. Minimum outreach should be 2.0 metre. Maximum outreach should be 9 metre</p> <p>Hoisting Speed (any load) = 0-16 m/min Luffing time = 24 sec Slew factor (without limitation) = 400deg Slewing speed = 0 to 1.4 rpm Lowering speed (stepless) = Hydraulically equal to Hoisting speed (ie 0-16 m/min)</p>
3	<p><u>RULES & REGULATIONS & CERTIFICATION</u> : Classification Society as per Code of Lifting appliances in Marine Environment.</p> <p>TECHNICAL SPECIFICATION: Electro Hydraulic Articulated (knuckle boom) Crane with following operational parameters:</p> <ul style="list-style-type: none"> • Power pack ,Motor starter ,Slewing machinery • Hoisting machinery with eyes and hooks • J/B cylinder ,Hydraulic pipes ,Hoses • Foundation/Seat - with two sets of bolts • stant tensioning arrangement. • Starter Panel

OUTBOARD MOTOR (OBM)



Sr No.	Technical Description
1	To be fitted on Rescue Boat/Life Boat & work Boats as propulsion device as per speed and capacity requirement
2	<p><u>TECHNICAL SPECIFICATION</u> :</p> <p><u>Engine.</u> Outboard motor should of power 65 to 75 HP and shall be controlled from the helmsman position. Both remote and local manual starting arrangements should be provided.</p> <p><u>Fuel System.</u> The engine shall draw fuel from fixed fuel tank of sufficient capacity to meet the endurance requirements. The fuel tank shall be constructed of stainless steel and of the size to meet endurance specified. The tank shall be provided with cover plate for cleaning. A calibrated dipstick shall also be provided which shall be stowed on top of this tank.</p>

Annual requirement:
Approx 2 nos. per year

OPTICAL BINOCULAR



Annual requirement:
Approx 10 nos. per year

Sr No.	Technical Description	
	7 x 50 Optical Binocular complete with carrying case and strap	
1	Magnification	7x
2	Field of View	120m @ 1000m
3	Diopter adjustment	-5 dptr to +7 dptr
4	Objective Dia	50 mm
5	Focus Method	Centre Focussing i.e. Adjust both lenses at the same time
6	Lens of Optical Binocular to be multi-coated	
7	Optical Binocular to be water proof and fog proof	

BINOCULARS (NIGHT VISION)



Annual requirement:
Approx 2 nos. per year

Sr No.	Technical Description	
1	Night Vision Binocular with accessories comprising of Night Vision Binocular with Image Intensifier tube of third generation, Lens cap, Eye cup (2 pieces), Eye piece cap and Neck strap, Demist shield for eyepiece, Day light filter, Rechargeable alkaline battery 1.5 Volts, Rechargeable lithium battery 2.8 Volts, Dummy battery, Transport case, pouch with accessories consisting of lens tissue and lens brush with tube, Battery charger for alkaline battery 1.5 Volts, Battery charger for lithium battery 2.8 Volts.	
2.1	Magnification	3x
2.2	Field of View	=/> 12.5°
2.3	Focusing Range	10m to infinity
2.4	Eye relief	25 mm
2.5	Eyepiece (Binocular)	f=25.4 mm
2.6	Eye base	56mm to 72 mm
2.7	Diopter adjustment	-6 dptr to +2 dptr

HANDHELD UNCOOLED THERMAL IMAGER



Annual requirement:
Approx 1 nos. per year

Sr No.	Technical Description	
1	Type:	Uncooled Microbolometer
2	Material:	Amorphous Silicon (ASi)
3	Frame rate:	Min 9 Hz
4	Resolution:	160x120 pixel
5	Continuous Operation:	Min 2 hours.
6	Battery Type:	Lithium Ion
7	Spectral Range:	8 ~14 μm
8	Field Of View :	3.5° (H)
9	Type of Viewfinder:	OLED Microdisplay
10	Thermal Sensitivity:	0.50mK
11	Pixel Size(Pitch):	Approx 25 μ
12	Recognition Range (Approx):	Approx 650m
13	Operating Temperature	-20°C To +60°C (-4°F To 140°F)
14	Long Term Storage	-20°C To +60°C (Camera) -10°C To +50°C (Battery)
15	Sealing	Waterproof (IP65)*
16	RoHS	Compliant
17	Safety	IEC 60950-1 and related national standards

INFRA RED INTERNAL COMMUNICATION SYSTEM



Sr No.	Technical Description
	The infra-red communication shall provide communication in both directions between the mobile operator unit and a fixed base station by digitally encoded data. Two way wire-free communication shall be achieved between the mobile units and the fixed antennae by digitally encoded infra red. The mobile units shall be small, light weight, noise attenuating and battery powered, while the fixed base unit shall employ several infra red antennae located throughout the area covered for communication.
1	Infra Red Antenna
2	Base station
3	Mobile unit noise attenuating
4	Mobile unit Aural Type
5	Battery pack for noise attenuating mobile & Aural Type
6	Battery charger 230vac 50/60 Hz.
7	Auto Change-Over Power Supply Unit
8	Auxiliary Power Supply
9	Audio, Data and Power Supply cables

Annual requirement:
Approx 1 nos. per year

GPS COMPASS



Annual requirement:
Approx 1 nos. per year

Sr No.	Technical Description	
1	GPS Receiver Type	GNSS L1 Compass
2	Channels	Two 270- channel, parallel tracking
3	SBAS tracking	2-channel, parallel tracking
4	Update rate	1-20 Hz (position and heading)
5	Horizontal accuracy	<1.0 m 95% confidence (DGPS) <4.0 m 95% confidence (autonomous)
6	Heading accuracy	<0.5 deg RMS Normal operation: GPS Coasting (no GPS) : Gyro
7	Heave accuracy	< 30 deg RMS Normal operation: GPS Coasting (no GPS) : None
8	Pitch accuracy	< 1 deg RMS Normal operation: GPS Coasting (no GPS) : Inertial sensor
9	Roll Accuracy	< 1 deg RMS using accelerometer Normal operation: Inertial sensor Coasting (no GPS) : Inertial sensor
10	Timing (1 PPS) accuracy	50 ns
11	Rate of turn	90 deg/s maximum

LONG RANGE ACOUSTIC DEVICE (LRAD)



Sr No.	Technical Description		
1	LRAD shall provide long range communication and a highly effective hailing and warning capability .The superior voice intelligibility and clarity of LRAD shall provide a directional audio beam so that it can communicate with high intelligibility over 88 dB of background noise beyond 650 meters and shall be capable of communicating over 1500/2000 metres away in a benign environment. LRAD operator shall have the ability to issue clear, authoritative verbal commands, followed with powerful deterrent tones to enhance response capabilities.		
2	ACOUSTIC PERFORMANCE:-		
2.1	Maximum Continuous Output	145 dB SPL at 1 meter	148 dB SPL at 1 meter
2.2	Beam Width	+/-15° @ 1 kHz/-3dB	+/-15° @ 1 kHz/-3dB
2.3	Communications Range	Highly intelligible speech transmissions over 1500 metres.	Highly intelligible speech transmissions over 2000 metres.

Annual requirement:
Approx 1 nos. per year

SEARCH AND RESCUE TRANSPONDER (SART)



Sl. no.	Technical Description	
1	Frequency	9.2 GHz to 9.5 GHz
2	Antenna Characteristics	Vertical beamwidth at least +/- 12.5 degree relative to the horizontal plane of the radar transponder. Azimuthal beamwidth omni-directional to +/- 2dB
3	Sweep Rate	5 usec per 200 MHz nominal
4	Response Signal	12 forward and return sweeps through the range 9.2-9.5GHz
5	Form of sweep	Forward → 7 usec Reverse → 0.4 usec
6	Minimum recovery time	less than 10µs
7	Pulse emission	100 usec nominal
8	Rx Sensitivity	Better than - 50 dBm
9	Operating Temp	- 20°C to +55°C
10	Radiated Power (ERP)	Not less than 400mW (+26dBm)
11	Effective Antenna Height	1 metre or greater
12	Duration of Operation	96 hours in standby condition followed by a minimum 8 hours of transmission while being continually interrogated with a pulse repetition frequency of 1kHz

Annual requirement:
Approx 4 nos. per year

EMERGENCY POSITION INDICATING RADIO BEACON



Annual requirement:
Approx 2 nos. per year

Sl. No.	Technical Description		
	EPIRB (Emergency Position Indicating Radio Beacon) shall be used to alert search and rescue services in the event of an emergency. It shall transmit a coded message on the 406MHz distress frequency. This message shall be relayed via satellite and earth station to the nearest rescue co-ordination centre.		
	EPIRB shall be fully compatible with the Cospas-Sarsat and Global Maritime Distress and Safety System(GMDSS) regulations and meet the requirements A810 (19) of the International Maritime Organisation (IMO).		
	The EPIRB shall also have a secondary distress transmitter. This shall transmit on 121.5MHz and shall be used for "homing" purposes. When the rescue services get close, this shall allow them to direction find on the signal. To cater for searches at night, the EPIRB shall have a bright flashing light that aids final visual location.		
1	406 MHz Tx	Operating Freq. Power Output Modulation	406.5MHz +/- 1 KHz 5 W Phase
2	121.5 MHz Homing Tx	Operating Freq. Power Output Modulation	121.5MHz +/- 3.5KHz 50 mW ERP AM swept tone
3	Strobe Light	Type	high intensity LEDs
4	Battery	Operating Life Shelf Life	48 Hrs 5 yrs



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