



# GRSE

## P17A ADVANCED FRIGATE

BUILDERS OF 100+ WARSHIPS



INFINITE PASSION  
MEETS UNWAVERING COMMITMENT



The prestigious contract for construction of three Advanced Frigates under Project 17A was signed by GRSE on 20 Feb 2015 and is the largest ever order won by the company. P17A Frigates are state-of-the-art Guided Missile Frigates, built with latest Integrated Construction Methodology with enhanced pre-outfitting, to improve quality and reduce build periods. M/s Fincantieri, Italy, is the Knowhow Provider for Technology Upgrade and Capability Enhancement of the Frigates.

GRSE's maiden foray into the outfitting and installation of Brahmos SSM, MFSTAR antenna and LRSAM SAM during execution of Project 17 A, bestows new capabilities on the shipyard and catapults it to the higher league of shipyards capable of building potent stealth frigates for the nation. With P 17A, the shipyard has migrated to the digital realm and is successfully implementing AVEVA for the 3D modelling across multiple locations using a secured data network. Moreover, the vessel's workflow has adopted the Siemens 'TEAMCENTRE' for Product Data Model and Product Life Cycle Management (PDM/PLM).

### Main Particulars of the Vessel

Length (LBP)	138 M
Length (LOA)	149 M
Beam Max (On weather deck)	17.7 M
Breadth (BWL at Design Waterline)	15.9 M
Depth (at Centre)	9.9 M
Deep Draft	5.1 M
Design Deep Displacement	6670 T (approx.)
Speed	Max 28 Knots
Complement	Total : 225
Endurance	5500 NM at economical speed and 1000 NM at max speed
Propulsion Machinery	2 x CODOG propulsion plants

# GRSE AT A GLANCE

## Genesis

The genesis of Garden Reach Shipbuilders & Engineers Ltd (GRSE) dates back to 1884 when it started its journey as a small workshop to repair vessels of River Steam Navigation Company. In 1934, the Company was registered under the Indian Companies Act, 1913 and started its new journey as Garden Reach Workshops (GRW) Limited. The Shipyard played an active role during the 2<sup>nd</sup> World War wherein over 4000 vessels were repaired here. The Company was taken over by the Government of India in 1960. GRSE has the distinction of becoming the first shipyard of independent India to build a warship for Indian Navy, the Seaward Defence Boat (SDB) INS Ajay way back in 1961. GRSE also built the first ever Indian Export Warship "CGS Barracuda". The shipyard was conferred the status of a Miniratna Category I Company in 2006. GRSE has built 790 platforms including 108 warships for Indian Navy, Indian Coast Guard and Government of Mauritius & Seychelles Coast Guard - the highest number of warships built & delivered by any Indian shipyard till date.

The primary role of this ISO 9001, 14001, 18001, 50001 & PCMM Level 2 certified shipyard has always been building warships and other vessels for the Indian Navy and Indian Coast Guard. With its modern shipbuilding infrastructure, state-of-the-art Virtual Reality Lab and a 100+ strong design team drawing on over 60 years of shipbuilding expertise, GRSE can certainly lay claim to being the 'Master Builder' for Amphibious & Survey ships, Corvettes and Fast Attack Crafts in India. Apart from Ship Building & Ship Repairs, GRSE has also diversified into engineering business with a product profile of pre-fabricated steel bridges, various deck machinery items and assembly, as well as testing & overhauling of marine diesel engines.

GRSE is playing a key role in defence preparedness of India to produce the most modern warships through indigenization for the country aimed at self-reliance. Post modernization and revitalization, the shipyard has the capacity to build 20 ships (08 large & 12 small) concurrently.

## Recent Achievements

- ✦ Only Indian Shipyard to deliver 100 Warships since 1960 (108 Warships delivered till 31 Mar 23)
- ✦ Only PSU Shipyard to receive Raksha Mantri's Award 2022 for Excellence in Defence & Aerospace Sector : Design of Most Silent Ship for IN, for ASW Operations
- ✦ Defence Minister's Award of Excellence for in-house Design Effort for OPV built for Government of Mauritius
- ✦ Design and R&D Unit of GRSE has been recognized by DSIR, Ministry of Science and Technology, Govt
- ✦ A Profit Making and Dividend Paying company for the past 29 years
- ✦ 1st Defence Shipyard to get listed with Stock Exchanges
- ✦ Approximately 90% Indigenous Content on ASW Corvettes & LCUs
- ✦ Bagged an Order to build Next Generation Electric Ferry for Government of West Bengal
- ✦ Only Shipyard to receive Green Channel Certification by DGQA for supply of Bailey Type Portable Steel Bridges to Indian Army
- ✦ Developed Double Lane Portable Steel Bridge and Portable Assault Bridge for the 1<sup>st</sup> time in India
- ✦ Delivered Export Warship, SCG PS Zoroaster, FPV to Seychelles Coast Guard
- ✦ Delivered Export Vessel, MV 'Ma Lisha', an Ocean Going Passenger & Cargo Ferry to Cooperative Republic of Guyana
- ✦ Best Performing Defence Shipyard of India for Four Years in a Row
- ✦ Bagged Prestigious Awards for R&D, CSR, Corporate Governance, HR Practices, Communication Outreach, Digital Transformation, Best Organisational Efforts, Outstanding Initiatives in Promoting Medical and Health etc.
- ✦ Launched GRSE Accelerated Innovation Nurturing Scheme (GAINS) for Indian Startups



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**गार्डन रीच शिपबिल्डर्स एण्ड इंजीनियर्स लिमिटेड**  
**Garden Reach Shipbuilders & Engineers Ltd.**

