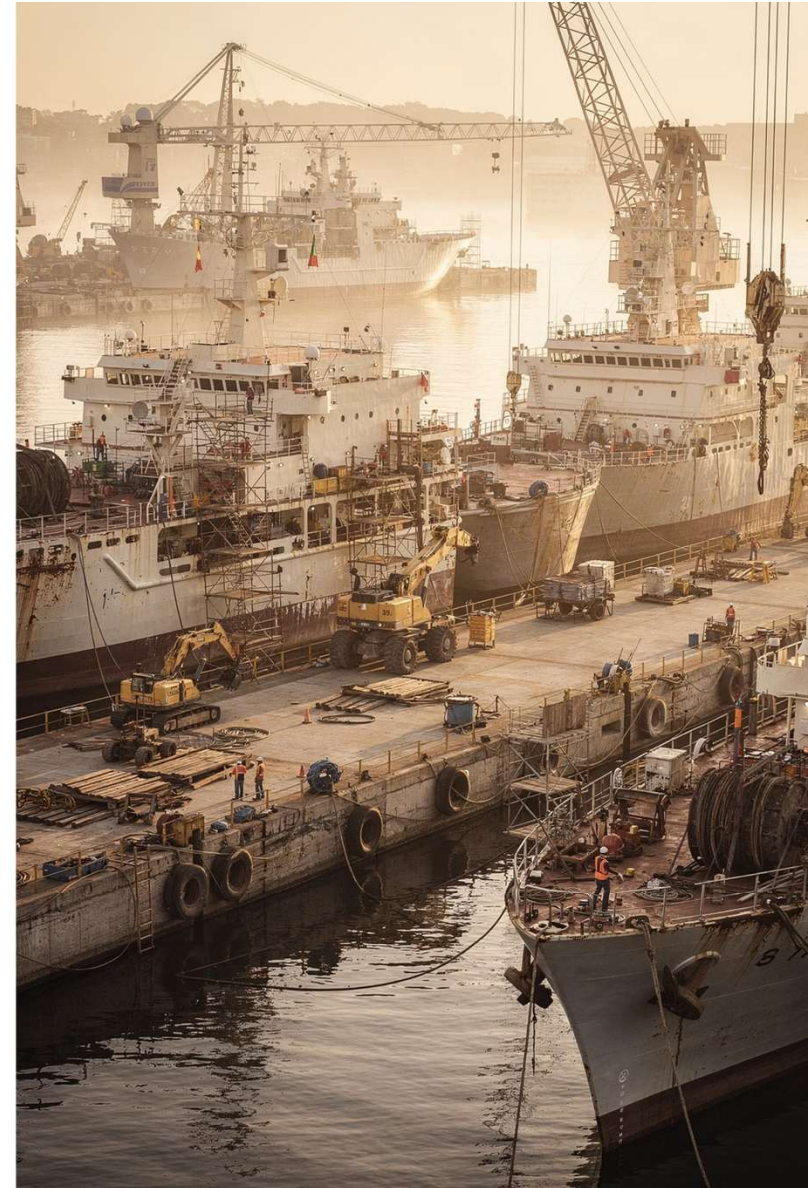


Ship Repair Operations Report

2025-26 Period

Comprehensive overview of vessel maintenance and repair activities undertaken at GRSE Ltd., Kolkata shipyard, excluding ship-building operations.



MV YANG GUANG

Main Engine Air Cooler Repair



Scope of Work

Comprehensive repair of main engine air cooler system starting January 30, 2026. Individual pressure testing of 820 tubes to detect and plug all leaky tubes, ensuring optimal cooling performance.

Custom Fabrication

Manufactured cast steel pulley (max OD 115mm, 2 grooves) and stainless steel shaft (395mm length with multiple stepped diameters and keyways). Supplied neoprene rubber cord in various sizes: 4mm, 5mm, and 6mm outer diameters.

MV X-PRESS MEGHNA



McGregor Hatch-Cover Pin Fabrication

Fabrication of critical pins for McGregor hatch-cover system using high-grade 42CrMo4 steel with test certificates. Work commenced January 21, 2026 for SAF Global Maritime-Mumbai.

Main Base Pins

OD 130mm × 435mm long - 3 pieces with jacking threads and lock slots

Centre Hinge Pins

OD 90mm × 275mm long - 3 pieces for hatch cover center mechanism

Hydraulic Cylinder Pins

Top pins (455mm) and bottom pins (235mm), OD 90mm - 3 pieces each

MV FENG HAI 66

Comprehensive Engine Room Repairs

Multi-faceted repair project from January 24-26, 2026, addressing critical engine room systems. Work included turbocharger maintenance, windlass repairs, and pipeline renewals.

Project Status

All jobs completed successfully by January 26, 2026, ensuring vessel operational readiness.

01

Turbocharger & Inspection

Bellow measurements, shaft generator inspection, oil mist detector check

02

Pipeline Renewals

Main seawater outlet and diesel oil pipelines using MS seamless sch-80

03

Equipment Repairs

Sea water pump coupling, RPM sensor, boiler contactor, and lathe machine

LPG/C SAHYADRI

Steel Pipeline Components Supply

Comprehensive supply of JIS STS370S seamless steel components completed January 14, 2026. Order included schedule 160 pipes, elbows, flanges, and specialty tubing.

A50 Schedule 160

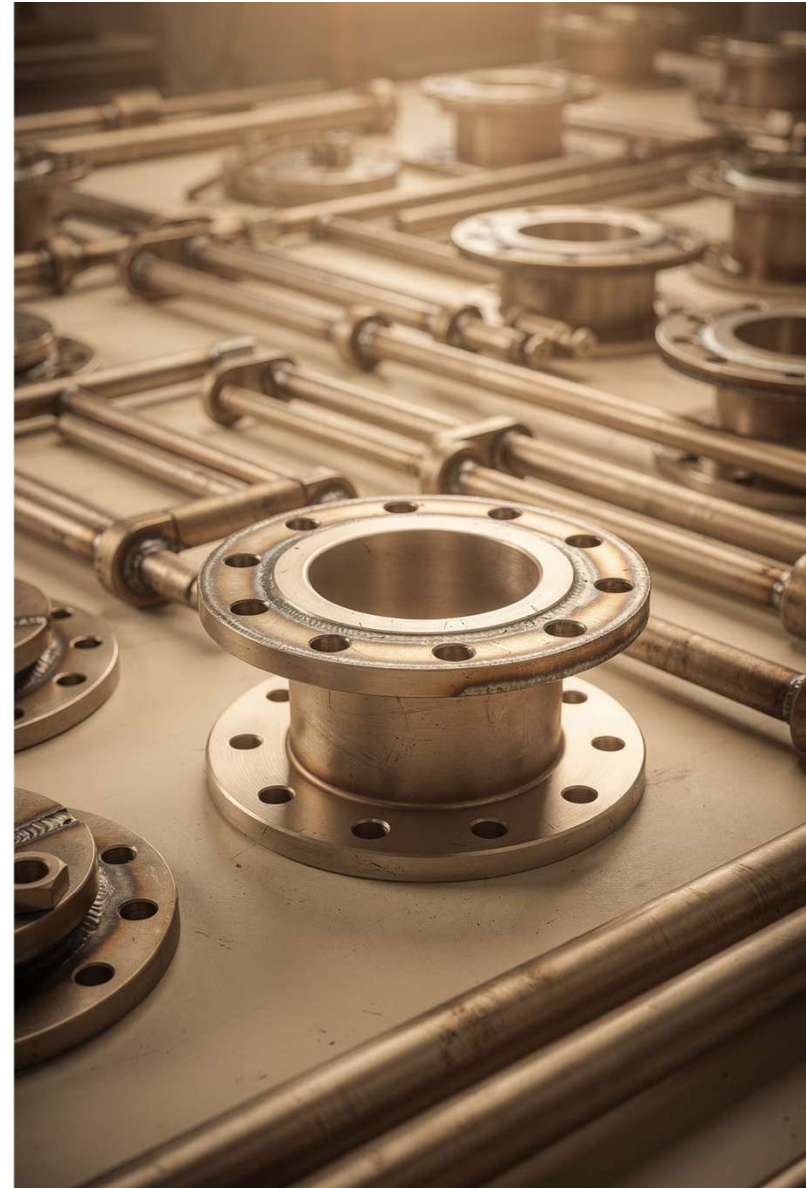
10 pipes (5.5m length), 16 short bend elbows, 8 long bend elbows

A40 Schedule 160

4 pipes (5.5m length), 8 short bend elbows, 5 long bend elbows

Flanges & Tubing

48 slip-on flanges (various IMPA codes), copper and stainless steel tubes, flareless fittings



MV KOTA DAHLIA

Auxiliary Engine Seawater Pipeline Renewal



Rapid Turnaround

Emergency pipeline replacement completed in just two days, January 12-13, 2026. Four damaged auxiliary engine seawater pipelines renewed using MS seamless schedule-80 pipe.

Technical Specifications

- 100mm NB × 1650mm with reducer and flange
- 100mm NB × 1300mm with branch line and bends
- 3" diameter × 1500mm and 2800mm lengths
- Multiple flanges and branch connections



MV CHS COLOMBO

Cargo Hold Maintenance & Painting

Multi-phase repair project from January 13-14, 2026, addressing cargo hold structural issues and Certificate of Compliance rectifications.

Hatch Coaming Repairs

Drain channel flat bar renewal for cargo holds 3 and 4 (approximately 30 meters). Wasted stiffeners renewal on starboard side (8 pieces).

Work partially completed, balance scheduled for next call.

De-rusting & Painting

Upper deck forward area, hatch coamings, pedestals, and cross deck de-rusted and painted. Free-fall lifeboat davit completed. Ship's name painting on port side finished.

MV FENG HAI 66

Air Cooler & Turbocharger Service

Quick Service

Completed January 7-8, 2026

Comprehensive air cooler cleaning and turbocharger cartridge replacement using ship-supplied parts.

Scope of Work

- Complete air cooler cleaning for optimal heat exchange
- Turbocharger cartridge replacement
- Bellow insulation renewal (2 pieces)

All jobs completed within 48-hour window, minimizing vessel downtime.

MV MAA GANGA

Major Equipment Overhaul

Extensive repair project for Cochin Shipyard Ltd. at NS Dry-Dock, Kolkata, commenced January 5, 2026. Work currently in progress on critical vessel systems.

Blower Systems

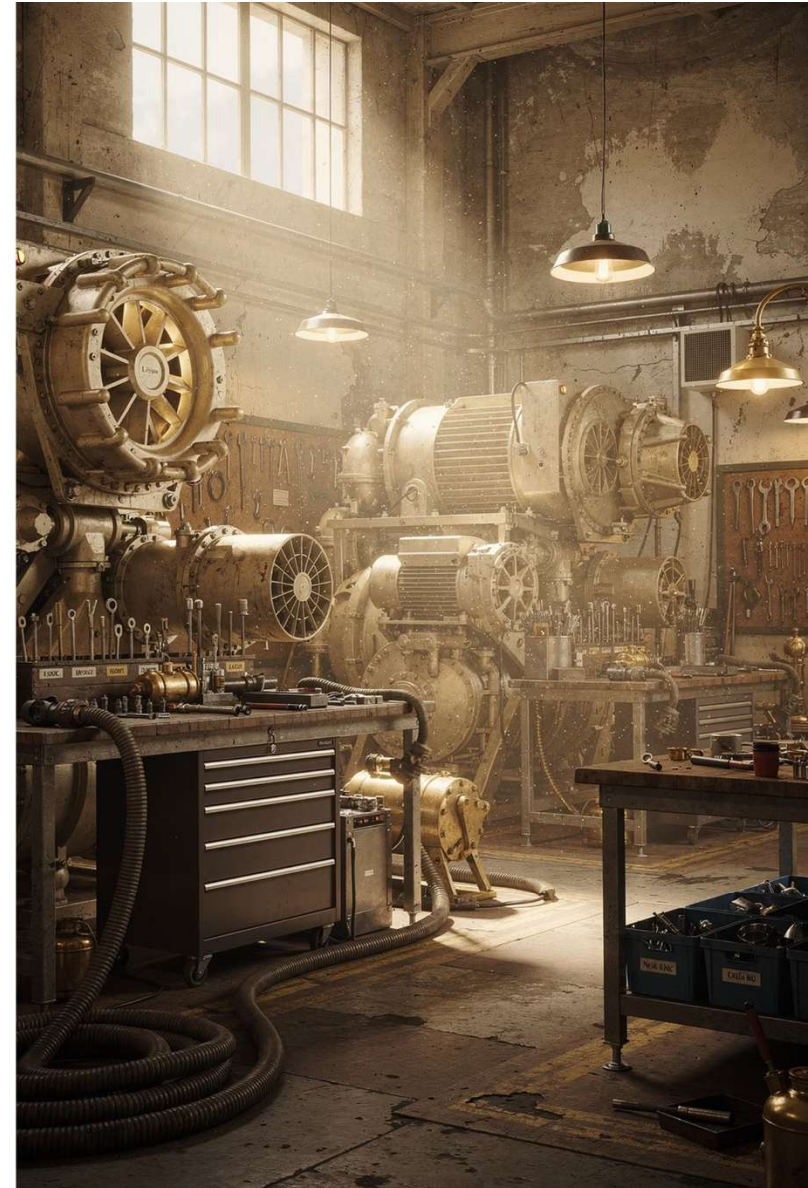
Complete overhaul and repair of 5 blower sets including motor repairs

Fire Pump

Emergency fire pump repair and testing - 1 unit

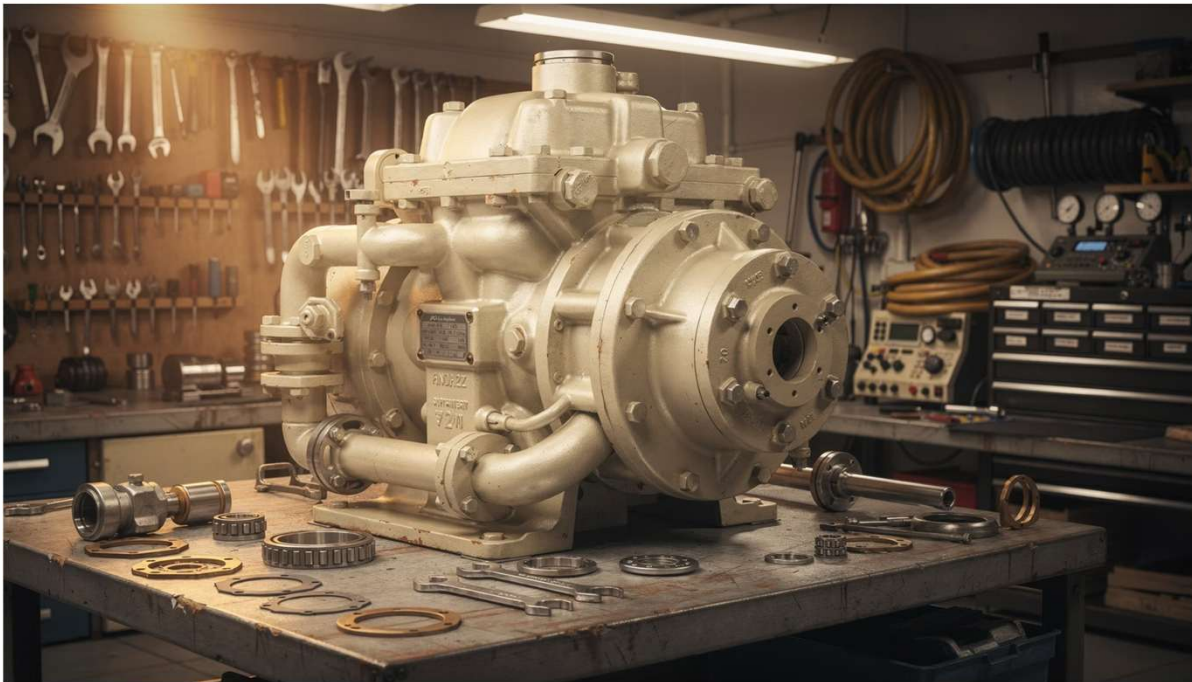
Air Compressors

Main air compressor repair and reconditioning - 2 units



DV RABINDRA

Fire & General Service Pump Repair



Project Details

Fire and general service pump landed for comprehensive repair on behalf of Cochin Shipyard Ltd. at NS Dry-Dock, Kolkata. Work commenced December 20, 2025.

Current Status

Repair work in progress, awaiting further instructions from CSL for completion and delivery schedule. Pump being overhauled according to surveyor specifications.



MV CHS COLOMBO

New Year Maintenance Blitz

Comprehensive maintenance package completed January 1-3, 2026, per Singapore head office instructions dated December 28, 2025.

Structural Repairs

Cargo hold hatch coaming drain channel flat bar renewal for holds 2 and 4. Bridge wing starboard drain pipe repair using onboard materials.

Surface Treatment

De-rusting and painting of upper deck forward and accommodation block. Professional ship name painting completed.

MV YANG GUANG

Holiday Season Parts Supply

Rapid Response

Emergency parts supplied December 24-25, 2025, ensuring vessel operational during holiday period.

Components Delivered

- Aluminum fan blade: OD 450mm with 4 blades - 1 piece
- SKF bearings 6308 ZZ/C3 - 2 pieces

Job completed December 25, 2025, with same-day delivery service.



MV HAI FENG

Hydraulic Cylinder Complete Overhaul

Extensive repair of hatch-cover hydraulic cylinder from Bay 20 Port Inner. Cylinder landed December 19, 2025, for complete workshop overhaul.

1

Dismantle

Complete disassembly and inspection

2

Repair

Overhaul and seal renewal

3

Test

Pressure test 240-250 kg/cm²

4

Deliver

Completed January 10, 2026

MV HAI FENG

Emergency Cylinder Replacement

Critical Repair

Bay 20 Port Inner hydraulic cylinder for hatch-cover system failed and required immediate replacement. Defective unit removed and ship-supplied spare cylinder installed in position.

Timeline

Work completed December 18-19, 2025, within 24-hour window to minimize operational impact and ensure cargo handling capability.



MV SHUI YUN

Hydraulic Controller Box Doors

Repair and renewal of damaged hydraulic controller box doors for hatch-cover system, December 12-13, 2025.

1

Door Repairs

2 doors repaired:
4mm thick × 950mm
× 320mm and 950mm
× 295mm

2

Door Renewals

2 new doors
fabricated to match
original specifications

3

Pipeline Renewal

Bay 16 midship
hydraulic pipeline
renewed using SS
pipes and Ermato
couplings, OD 30mm
× 2100mm



MV YANG GUANG

Complex Hydraulic Cylinder Reconditioning



Comprehensive Overhaul

Bay 28 Port Inner hatch-cover hydraulic cylinder underwent extensive reconditioning from December 11-24, 2025. Work included dismantling, seal renewal, top thimble repair, non-return valve reconditioning, and inner tube honing.

Quality Assurance

Cylinder hydraulically pressure tested with power pack between 240-250 kg/cm² to ensure reliability. Successfully delivered onboard at next port call.

MV YANG GUANG

Bay 28 Cylinder Replacement

Swift Action

December 9-10, 2025

Defective Bay 28 Port Inner hydraulic cylinder removed and ship-supplied spare (XPH) installed in position.

Operational Impact

Quick replacement ensured minimal disruption to cargo operations. Defective cylinder sent for workshop reconditioning while vessel continued operations with spare unit.

MV CHS COLOMBO

Comprehensive Deck Equipment Supply

Multi-faceted supply and repair project completed December 6-10, 2025, addressing electrical, mechanical, and structural needs.



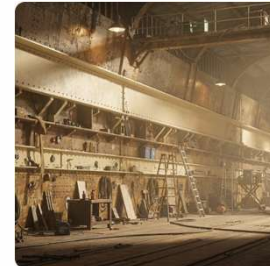
Electrical Components

Siemens contactors with aux blocks (2 NO + 2 NC) - 2 sets



Hardware Supply

M-Seal, brass CSK screws/nuts M8×50 and M8×55, windlass spindle brake brass nuts



Structural Repairs

Deck painting, cargo hold stiffener renewal, hatch seal coaming plate replacement



MV KOTA DAHLIA

Main Engine Seawater Pipeline Fabrication

Complex pipeline fabrication project from December 4-23, 2025. Old pipelines landed, transported to workshop for measurements, and new pipelines fabricated with rubber molding and vulcanization.

Pipeline 1

MS seamless sch-80,
6" diameter, 930mm
long with 1 bend and
2 flanges (150mm NB)

Pipeline 2

1170mm long with
branch line, 1 bend,
and 3 flanges for
complex routing

Pipeline 3

700mm long with 2
bends and 2 flanges
for tight space
installation



SUMMARY

Operational Excellence in Ship Repair

GRSE Ltd., Kolkata demonstrated exceptional capability in handling diverse ship repair operations throughout 2025-26. From emergency cylinder replacements to complex pipeline fabrication, the facility delivered quality workmanship across multiple vessel types.

15+

Vessels Serviced

Multiple vessel types including cargo ships, LPG carriers, and specialized vessels

100+

Jobs Completed

Comprehensive repairs ranging from emergency fixes to planned maintenance

24-48

Hour Turnarounds

Rapid response times minimizing vessel downtime and operational impact