

Hatch-Cover Hydraulic Cylinder Replacement Services

TMB's comprehensive hydraulic cylinder replacement and maintenance services for X-Press vessels at Kolkata Port. Delivering precision engineering and reliable maritime solutions.



Standard Replacement Procedure

01

Preparation & Disconnection

Erect staging, disconnect pipeline connections, and remove defective hydraulic cylinder from top and bottom pins.

03

Installation & Securing

Fit top and bottom pins, secure with locking and spacer rings.

02

Cylinder Removal & Positioning

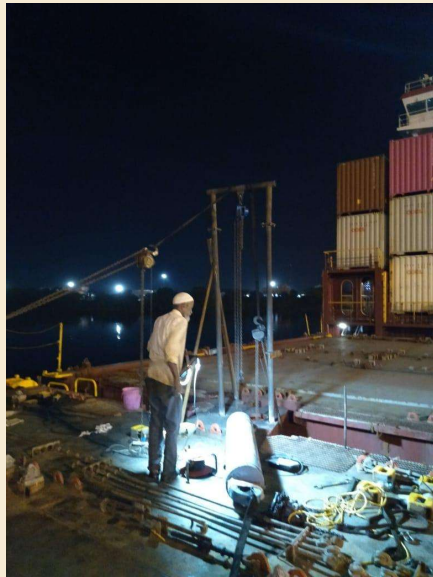
Shift the defective hydraulic cylinder and position ship-supplied replacement cylinder OR overhauled / repaired cylinder by TMB.

04

Connection & Testing

Connect pipeline connections and conduct comprehensive try-out procedures.

X-Press Meghna Operations



Hatch No. 3 Port Outer Aft Bay 23

Date: July 12-13, 2022

P.O. Number: XPMEG-2022-RM0023-O(01)

Scope: Removed old defective hydraulic cylinder and fitted ship-supplied replacement with successful trial completion.

Extra Work: New bottom pin supplied and installed as additional service.



X-Press Hoogly: Multiple Cylinder Replacements

TMB completed extensive hydraulic cylinder replacement work on X-Press Hoogly across multiple service periods, demonstrating our capacity for complex, multi-unit operations.



X-Press Hoogly Service Record

April 2021 - Hatch Cover No. 4

Port & Starboard Inner & Outer hatch covers' hydraulic cylinders (2 units). Completed April 14-16, 2021. P.O.: XPHOO-2021-RM0008-O(01)

1

2

July 2021 - Hatch Cover No. 3

Bay 14 Port Outer & Starboard Inner hydraulic cylinders (2 units). Completed July 18-19, 2021. P.O.: XPHOO-2021-RM0012-O(01)

February 2022 - Bay 24

Port Inner & Outer hatch covers' hydraulic cylinders (2 units). Completed February 13-15, 2022. P.O.: XPHOO-2021-RM0008-B(01)

3

4

December 2019 - Multiple Units

Four hydraulic cylinders replaced across multiple bays. Completed December 13-15, 2019 and January 1-2, 2020. P.O.: XPHOO-2019-RM0005-O(01)

X-Press Ganges Service History

September 2021

Bay 14 Port Inner

1 hydraulic cylinder replaced

September 21-22, 2021

P.O.: XPGAN-2022-RM0005-O(01)

August 2021

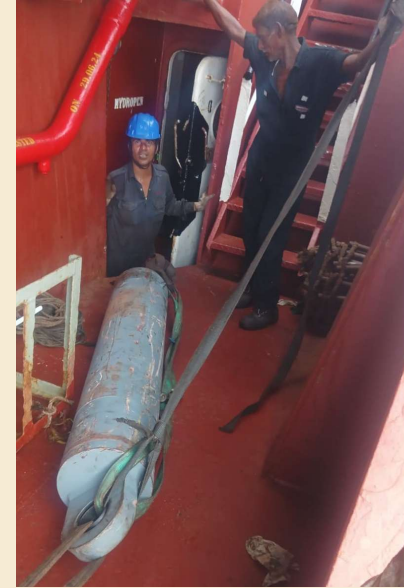
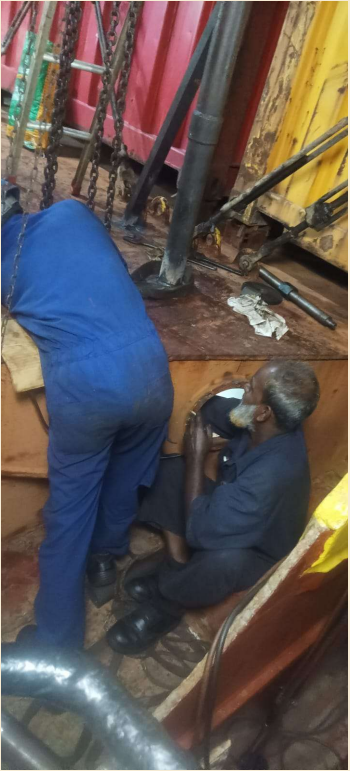
Bay 28 Port Inner

1 hydraulic cylinder replaced

August 9-10, 2021

P.O.: XPGAN-2021-RM0021-B(01)





X-Press Godavari: Comprehensive Service Portfolio

X-Press Godavari received extensive hydraulic cylinder replacement services across multiple bays and configurations, showcasing TMB's expertise in handling complex multi-cylinder operations.

X-Press Godavari Operations Detail

Bay 20 Starboard Forward Outer

October 11-13, 2021

1 hydraulic cylinder replaced

P.O.: XPGVI-2021-RM0055-B(01)

Bay 10 Starboard Forward Port Inner

September 27-29, 2021

1 hydraulic cylinder replaced

P.O.: XPGVI-2021-RM0046-B(01)

Extra: Bottom pin & spacer rings supplied

Bay 24 Multiple Positions

May 24-25, June 13-16, July 3-5, 2021

3 hydraulic cylinders: Inner & Outer Port & Starboard Aft No. 3 hatch cover

P.O.: XPGVI-2021-RM0046-B(01)

Extras: 3 sets spacer rings, 2 bottom pins

X-Press Meghna: 2019 Service Operations

No. 4 Starboard Hatch Cover

Period: September 21-23, 2019

Scope: 1 hydraulic cylinder - removed old defective unit and fitted ship-supplied replacement with successful trial.

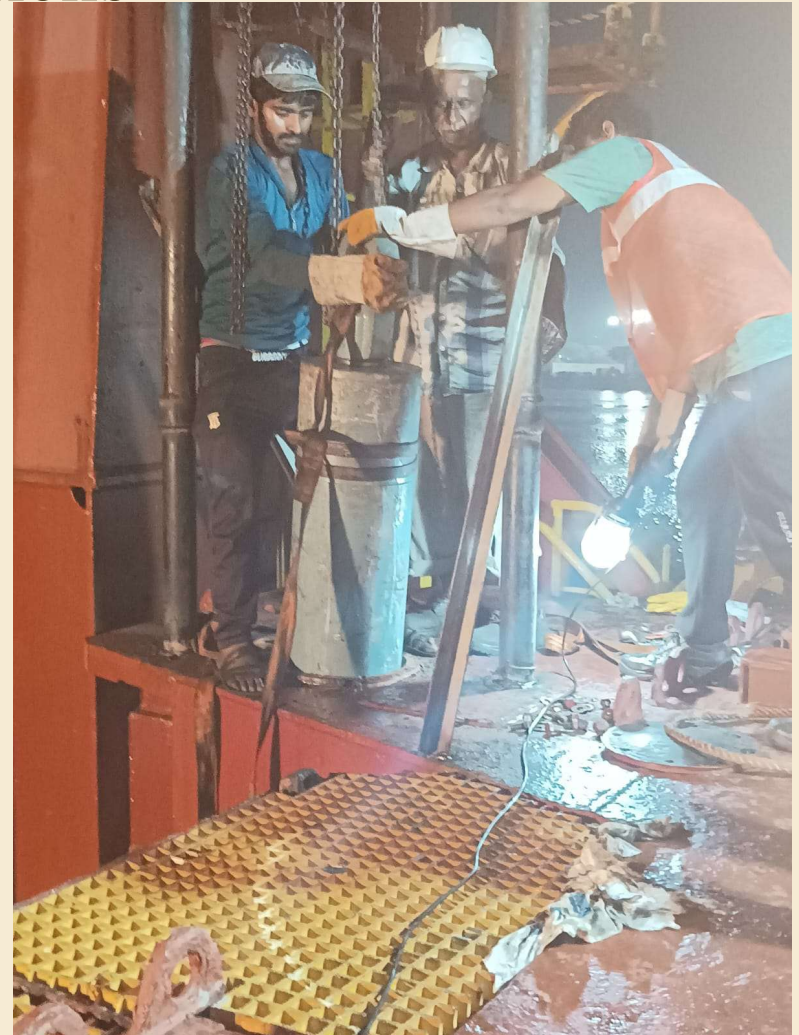
P.O. Number: XMEGI-2019-RM0019-B(01)

No. 4 Hatch Cover (2nd Set)

Period: October 26-28, 2019

Scope: 1 hydraulic cylinder replacement with additional jobscope included.

P.O. Number: XMEG-2019-RM0010-O(01)



 RECENT OPERATIONS

2025 Service Operations Overview

TMB conducted comprehensive hydraulic cylinder replacement, testing, and overhauling services across multiple operational periods in 2025, demonstrating continued excellence in maritime maintenance.



September 11-15, 2025

Bay 34 and Bay 30 cylinder replacements, leak testing, and overhauling services completed.



October 7-11, 2025

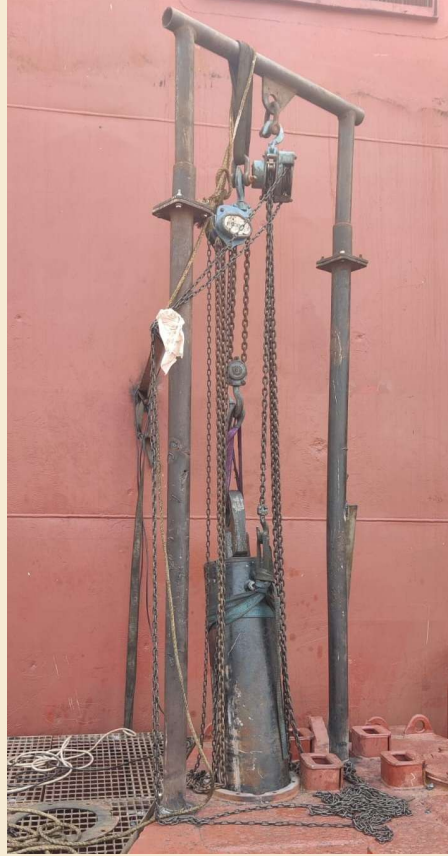
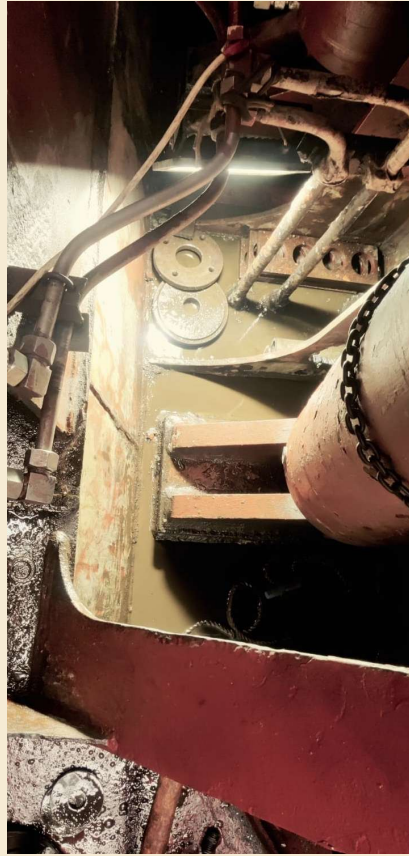
Hydraulic pressure Leak testing onboard in position using workshop Hyd. Powerpack for leaks done across 16 cylinders in Bays 24, 20, 12, and 16, plus replacements in Bays 30 and 12.



November 1-3, 2025

Pressure testing of 8 cylinders in Bays 06 and 02, plus Bay 12 Port Outer cylinder replacement.

September 2025: Bay 34 & Bay 30 Operations



Cylinder Replacement Work

P.O.: RHSCH-2025-RM0055-B

- Bay 34: 3 cylinders replaced
- Bay 30: 1 cylinder replaced

Leak Testing Services

P.O.: RHSCH-2025-RM0056-B

- Bay 34: 4 cylinders tested
- Bay 30: 4 cylinders tested
- Spare cylinders: 2 units shifted and tested

Overhauling Services: September 2025



Comprehensive Overhauling

P.O.: RHSCH-2025-RM0058-B

Complete overhauling of 4 hydraulic cylinders performed by TMB specialists.



Reconditioned Units

Reconditioned hatch cover hydraulic cylinders supplied as part of comprehensive service package.

Quality-tested and ready for installation.



m.v. Shui Yun ex X-press Irrawaddy - October 2025: Extensive Pressure Testing for Leaks

Comprehensive hydraulic pressure testing program conducted across multiple bays using workshop-supplied power pack, ensuring leak-free operation and system integrity.

October 2025: Testing & Replacement Details

1

Bay 24 Testing

4 hydraulic cylinders pressure tested for leaks

2

Bay 20 Testing

4 hydraulic cylinders pressure tested for leaks

3

Bay 12 Testing & Replacement

4 cylinders tested, plus Starboard Inner leaky cylinder replaced

4

Bay 16 Testing

4 hydraulic cylinders pressure tested for leaks

5

Bay 30 Replacement

Starboard Inner leaky hydraulic cylinder replaced

November 2025: Final Operations Phase

Pressure Testing Program

Bays 06 & 02: 8 hatch-cover hydraulic cylinders underwent comprehensive hydraulic pressure testing.

All units tested to API standards ensuring optimal performance and leak-free operation.

Cylinder Replacement

Bay 12 Port Outer: Leaky hydraulic cylinder successfully replaced with ship-supplied unit and tested.



🔧 EXTENDED SERVICES

Overhauling & Seal Replacement Program

Service Period: October 9 - November 1, 2025

Bay 30 Port Outer

Complete overhauling, seal changing, and pressure testing of leaky hydraulic cylinder

Bay 12 Starboard Inner

Complete overhauling, seal changing, and pressure testing of leaky hydraulic cylinder

Total units serviced: 2 hydraulic cylinders restored to full operational capacity.



TMB's Service Excellence

TMB has established itself as the premier provider of hydraulic cylinder replacement and maintenance services for X-Press vessels at Kolkata Port, delivering consistent quality across dozens of operations.

Service Capabilities & Expertise



Complete Replacement Services

Full hydraulic cylinder removal, installation, and commissioning with comprehensive trial procedures.



Pressure Testing

Hydraulic pressure testing using workshop-supplied power packs to ensure leak-free operation.



Overhauling & Reconditioning

Expert overhauling services including seal replacement and complete cylinder reconditioning.



Parts Supply

Supply of critical components including Top + Bottom pins, spacer rings, locking rings, Tedo Ring etc.

Track Record by the Numbers

12+

Vessels Serviced

Multiple X-Press vessels including Meghna, Hoogly, Ganges, and Godavari

40+

Cylinders Replaced

Successful replacement operations across multiple bays and configurations

5+

Years of Service

Continuous operations from 2019 through 2025 demonstrating reliability

100%

Success Rate

All installations completed with successful trials and operational verification

Your Trusted Maritime Maintenance Partner

TMB continues to deliver world-class hydraulic cylinder replacement and maintenance services at Kolkata Port. Our proven track record, technical expertise, and commitment to quality make us the preferred choice for X-Press vessels and maritime operators.

Contact TMB

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