

TMB SHIPPING PVT LTD

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Various Repair Works done on Pacific International Lines (KOTA Fleet).

TECHNICAL REPORT

2025-2026

Comprehensive documentation of critical marine engineering repairs and maintenance operations across the Kota fleet. This presentation details pipeline renewals, structural repairs, engine overhauls, and system recommissioning work performed by skilled marine engineers.





Auxiliary Engine Seawater Pipeline Renewal

Critical infrastructure work performed on m.v. Kota Dahlia from January 12-13, 2026. Four damaged auxiliary engine seawater pipelines required complete renewal using MS seamless schedule-80 pipe in 4" and 3" diameters.

01

Removal & Assessment

Damaged pipelines removed in sections and transported to deck for analysis

02

Jig Fabrication

Custom jig constructed on deck to replicate exact pipeline configurations

03

New Pipeline Fabrication

Four new pipelines fabricated using bends, flanges, reducers, and HT bolts

04

Installation & Testing

Pipelines fitted, welded, ground smooth, and pressure tested successfully

Four Critical Pipeline Replacements

Each pipeline required precise fabrication to match original specifications while improving durability and performance. All work completed using MS seamless schedule-80 pipe with appropriate fittings.

1

AE Outlet to Overboard

4" diameter × 1650mm with reducer (4" × 5"), 1 bend, 3 flanges

2

AE Outlet with Branch

4" diameter × 1300mm with 430mm branch, 1 bend, 2 fabricated 45° bends, 3 flanges

3

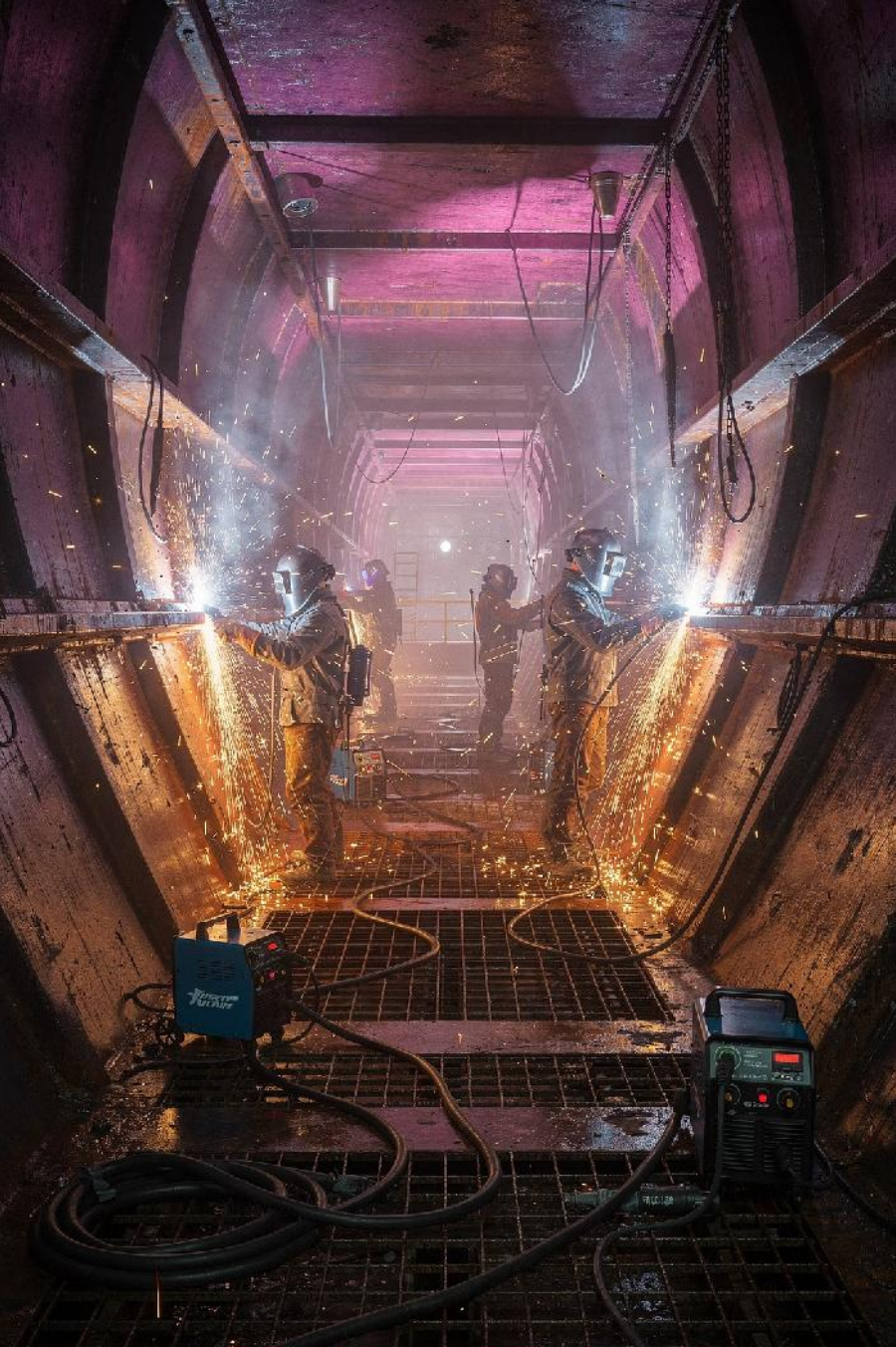
Aux Boiler Drain Cooler

3" diameter × 1500mm with 1 bend, 2 flanges for SW outlet pipe

4

Gray Water Drain

3" diameter × 2800mm with 2 branch lines (200mm each), 4 flanges, 2 fabricated 45° bends



Ballast Tank Structural Repair

Emergency structural repair performed on m.v. Kota Dahlia, May 20-21, 2025. Ballast tank-top leaking at Bay 21, Row 01 Port required immediate attention to prevent further deterioration and maintain vessel integrity.

Repair Methodology

Damaged sections removed by gas-cutting and gouging using DA/O₂ gas. New steel doubler plate cut to precise dimensions with V-weld preparations. Multi-run electric welding using low hydrogen electrodes ensured structural integrity.

Base cone (10mm thick × 1000mm × 1000mm) fitted and welded at Bay 20, Row 01 Port Aft. All weld deposits cleaned, ground smooth, and inspected by ship staff.

1

Doubler Plate

1000mm × 1000mm × 10mm
thick steel

2

Days

Complete repair duration

Main Engine Seawater Cooling System Renewal

Complex pipeline renewal project on m.v. Kota Dahlia, December 2-4, 2025. Three damaged main engine seawater cooling pipelines required complete replacement in confined under-floor spaces with limited access.



Sequential Removal

Damaged 6" diameter pipelines removed in sections. One 1000mm in-way pipeline removed for access



Deck Fabrication

Custom jig constructed on deck. New MS seamless schedule-80 pipelines fabricated to exact specifications



Installation Complete

Three new pipelines fitted with bends, flanges, bolts/nuts. All joints vulcanized and pressure tested



ME Seawater Pipeline Specifications

All three pipelines fabricated using MS seamless schedule-80 pipe, 6" diameter, with various configurations to match the main engine cooling system requirements.

Pipeline A

MS seamless pipe with 1 schedule-80 90° bend and 2 MS flanges for primary cooling circuit

Pipeline B

T-section with branch line, 1 schedule-80 90° bend, and 2 MS flanges for distribution

Pipeline C

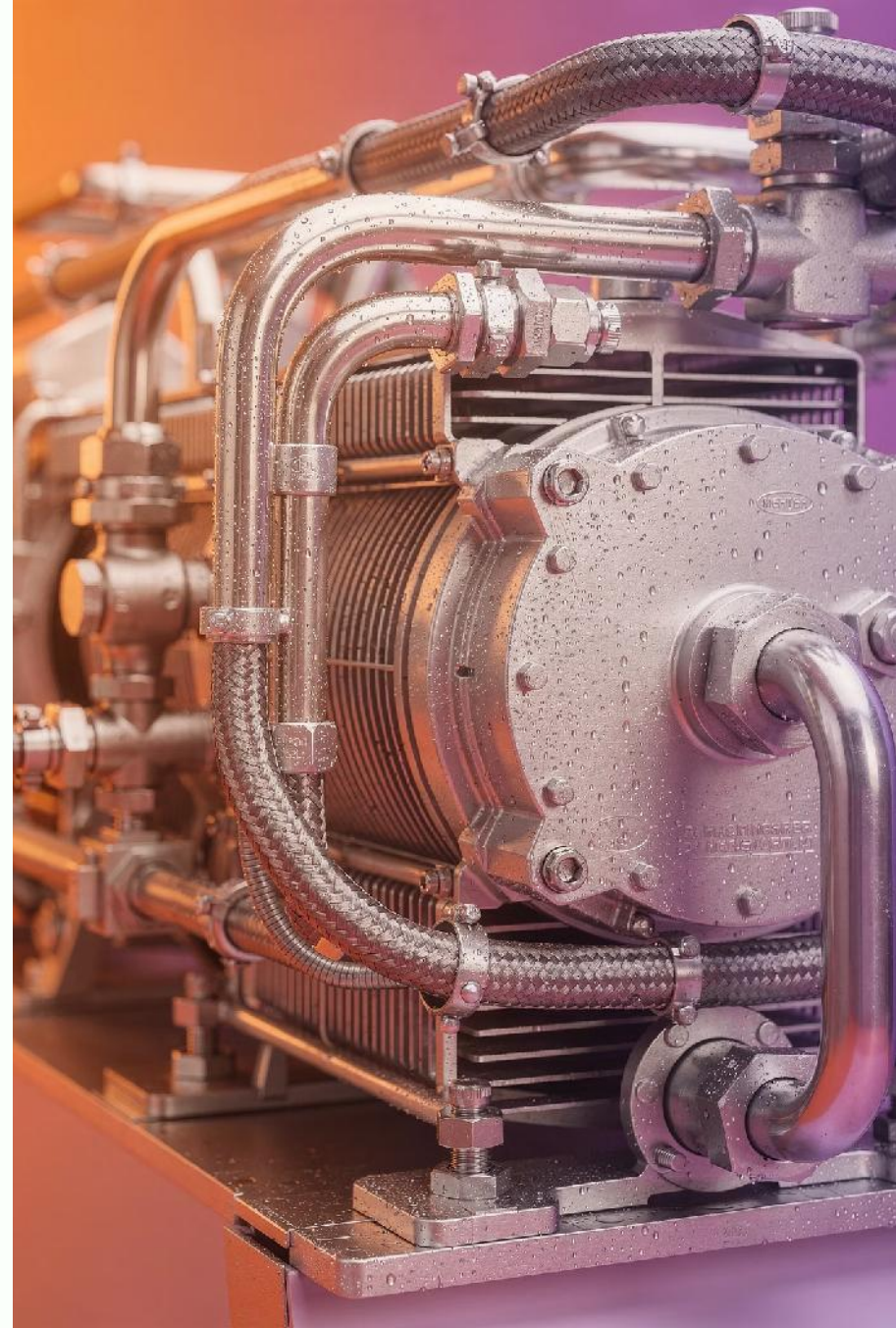
MS seamless pipe with 2 schedule-80 90° bends and 2 MS flanges for return circuit

❏ **Challenge:** All work performed in under-floor plate area with severe space constraints and limited access, requiring precise planning and execution.

m.v. Kota Dunia Pipeline Works

Multiple critical pipeline renewals completed September 22-24, 2025. Three essential cooling system pipelines required fabrication and installation to restore full operational capacity.

- 1 — ME F.W. Cooler SW Outlet**
Main engine freshwater cooler seawater outlet pipe renewed with new fittings
- 2 — Gearbox Cooler SW Inlet**
Gearbox cooler seawater inlet pipeline fabricated and installed
- 3 — Gearbox Complex Assembly**
Gearbox cooler SW inlet with branch line, flanges, and reducer - complete system renewal





m.v. Kota Duta Cooling System Overhaul

Dual pipeline renewal project completed November 26-27, 2025. Both main engine seawater cooling outlet pipelines and auxiliary engine seawater cooling inlet pipelines showed critical damage requiring immediate replacement.

Main Engine SW Outlet

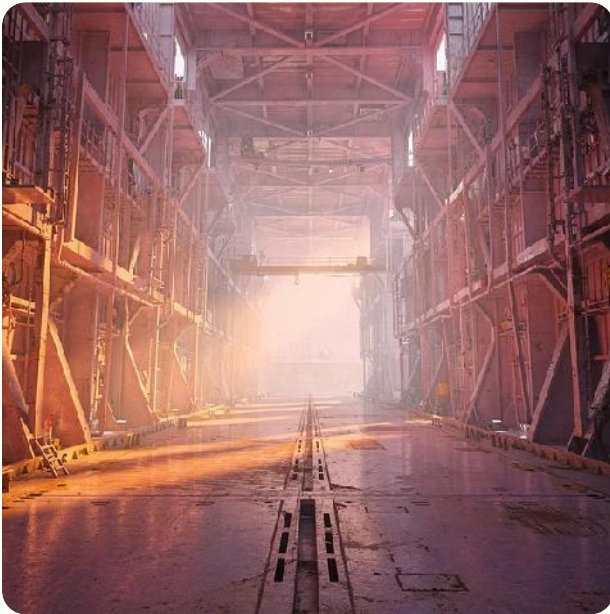
Complete renewal of ME seawater cooling outlet pipelines using schedule-80 seamless pipe. Fabricated with precision bends and flanges to ensure optimal flow characteristics and system pressure integrity.

Auxiliary Engine SW Inlet

AE seawater cooling inlet pipelines replaced with new materials. All connections fitted with HT bolts/nuts and new gaskets to prevent future leakage and ensure reliable operation.

Container Cell Guide Repairs

Critical cargo handling infrastructure repairs across multiple vessels. Cell guides ensure proper container stacking and prevent cargo damage during sea transit. Damaged guides pose serious safety and operational risks.



m.v. Kota Rakyat

Bay 06 and Bay 14 cell damaged guides renewed - 7 meters total.
March 21-23, 2025.



m.v. Kota Ratna

Cell guide repair and renewal at Bay 23 Row 02. August 24-25, 2025.

m.v. Kota Ria Cell Guide Renewal

Extensive cell guide repairs in Bay 18 Row 03 forward and aft sections, October 19-20, 2025. Total of four damaged sections required complete renewal to restore cargo handling safety.



Bay 18 FWD Port

2,600mm section renewed



Bay 18 FWD STBD

4,700mm in 3 sections



Bay 18 AFT STBD

2,000mm section renewed



Bay 18 AFT Port

5,200mm in 3 sections

14.5

Total Meters

Cell guide renewed

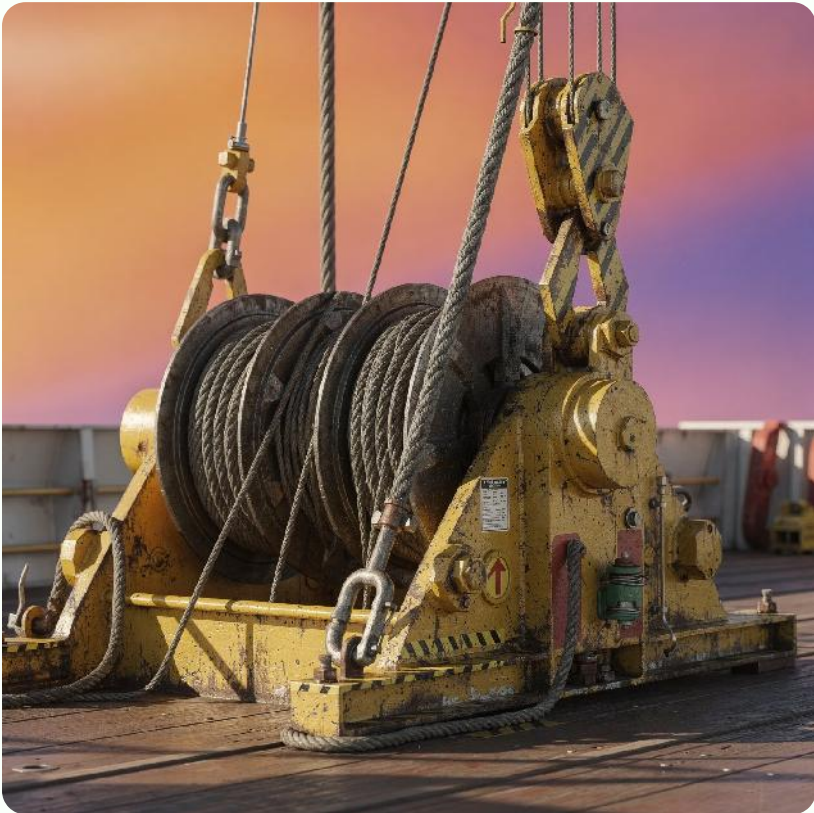
10

Sections

Fabricated and installed

Deck Crane Runner Wire Sheave Replacement

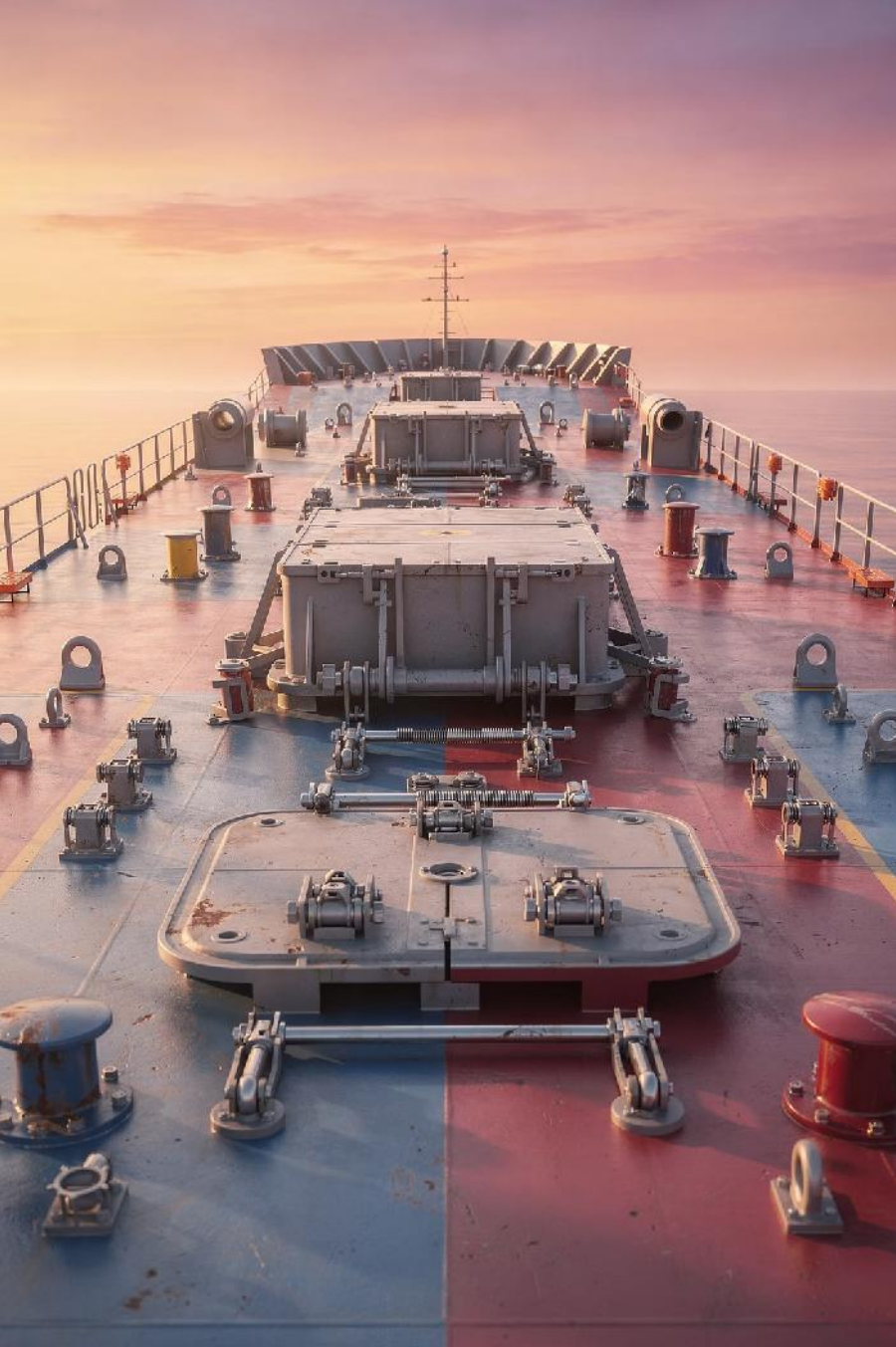
Emergency repair of No. 2 deck crane runner wire sheave, August 15-16, 2025. Damaged sheave posed significant safety risk to cargo operations and required immediate replacement to restore crane functionality.



Critical Safety Component

Runner wire sheaves are essential for crane operation, guiding wire rope and distributing load forces. Damage can lead to wire rope failure, dropped cargo, and serious accidents.

Replacement completed with precision alignment and thorough testing to ensure safe load-bearing capacity restored.



CHAPTER 7

Hatch Cover & Pontoon Repairs

Comprehensive structural repairs completed June 14-16, 2025. Multiple components of hatch covers and pontoons required renewal to maintain watertight integrity and cargo security.

Fashion Plates

Damaged fashion plates cropped and renewed on hatch covers and pontoons to restore structural integrity

Lashing Bars & I-Pads

Worn lashing bar I-pads replaced to ensure secure container fastening during transit

ISO Sockets

Damaged ISO sockets cropped and renewed for proper container twist-lock engagement

m.v. Kota Rukun Cargo Hold Cleaning

Major cargo hold cleaning operation in Hold No. 2, Bays 05, 06, and 07, May 3-4, 2025. Heavy fuel oil and sludge contamination required complete removal to prepare cargo spaces for next voyage.

01

Contamination Assessment

Heavy F.O. and sludge identified throughout cargo hold tank tops and well-mouths

02

Removal Operations

Systematic removal of all fuel oil and sludge using workshop-supplied consumables

03

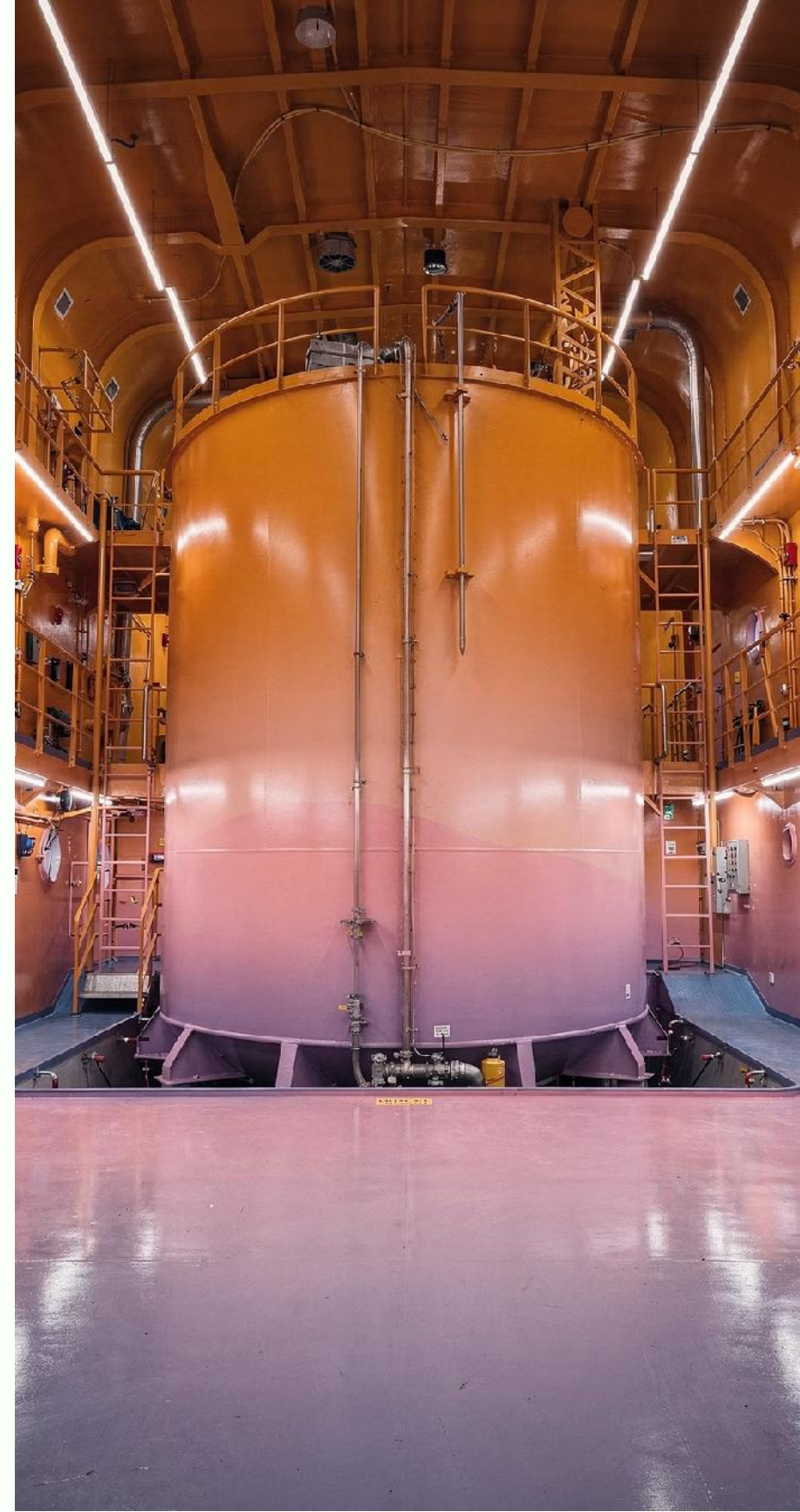
Tank Top Cleaning

Cargo hold tank tops thoroughly cleaned in all affected bays

04

Well-Mouth Cleaning

All well-mouths (aft, forward, port, and starboard) cleaned and inspected



Main Engine Unit #5 Complete Overhaul

Comprehensive overhaul of m.v. Kota Hakim main engine Unit #5, July 11-12, 2024. Mitsubishi 6UEC52LS engine required complete disassembly, inspection, and reassembly with new components.

Disassembly Phase

All pipelines disconnected, 8 tie rod nuts opened using ship-supplied jacks, cylinder head lifted with exhaust valve assembly

1

2

Component Removal

Piston and stuffing box positions marked, stuffing box nuts opened, piston lifted and secured with all safety precautions

Inspection & Cleaning

All components decarbonized - piston, liner, cylinder head landing seat. Liner lubrication checked, calibrations taken by ship staff

3

4

Renewal & Reassembly

All piston rings renewed, gaskets and O-rings replaced, cylinder head refitted, tie rods tightened per specifications



Engine Overhaul Technical Details

Precision measurements and systematic procedures ensured complete restoration of engine performance and reliability.

Inspection Procedures

- Liner inspection and calibration by ship staff
- Piston axial and butt clearances measured
- Manual liner lubrication check using lubricators
- Cylinder head bottom gasket groove cleaned

Component Renewal

- All piston rings renewed (ship-supplied)
- All gaskets and O-rings replaced (ship-supplied)
- Piston boxed back with proper clearances
- Stuffing box nuts tightened per specifications

📋 **Post-Overhaul Testing:** All pipelines and mountings refitted. Engine prepared for starting, checked for leakages - found satisfactory. Engine started and running satisfactory.

Main A.C. System Repair & Recommissioning

Critical air conditioning system repair on m.v. Kota Dunia, May 27-28, 2025. Frosting and icing on evaporator tube with suction line flooding indicated expansion valve malfunction requiring complete system overhaul.

Problem Diagnosis

Frosting/icing on evaporator tube, suction line flooding back, expansion valve malfunctioning

System Flushing

Entire system flushed with dry nitrogen gas to remove dirt, moisture, and oil

Component Service

Filter drier opened, cleaned, filter cartridges renewed and boxed back



A.C. System Pressure Testing Protocol

Rigorous pressure testing procedures ensured complete system integrity before refrigerant charging and recommissioning.

Initial Nitrogen Charge

System charged with nitrogen gas (high side and low side including compressor) to check for leakage

Leak Detection & Repair

Leak detected at condenser sight-glass, repaired and rectified. System rechecked - no leaks detected

Pressure Test Verification

Low side (including both evaporators) tested at 10 Bar. High side (including condenser) tested at 21.5 Bar

System Vacuumizing & Gas Charging

Final phase of A.C. system restoration involved complete vacuumizing and precise refrigerant charging to restore optimal cooling performance.

Vacuumizing Process

After nitrogen release, system vacuumized using workshop-supplied vacuum pump to -30. Vacuum held satisfactorily for hours, confirming complete system integrity and absence of leaks.

-30

Vacuum Level

Deep vacuum achieved

Refrigerant Charging

Fresh R404A refrigerant (ship-supplied) charged into system. Main A.C. system recommissioned successfully. Cooling found in order with no frosting or icing noted.

100%

System Integrity

All tests passed

Fleet-Wide Engineering Excellence

Comprehensive marine engineering services delivered across the Kota fleet demonstrate technical expertise, safety commitment, and operational excellence in challenging maritime environments.



Vessels Serviced

Across Kota fleet



Major Projects

Completed successfully



Safety Record

Zero incidents

Technical Capabilities Demonstrated

Our comprehensive marine engineering services span critical systems and structures, ensuring vessel reliability, safety, and operational readiness across diverse technical challenges.



Pipeline Systems

Complete renewal of seawater cooling, drainage, and auxiliary systems with precision fabrication



Structural Repairs

Ballast tank, cell guide, and hatch cover repairs maintaining vessel integrity



Engine Overhauls

Complete main engine unit overhauls with component renewal and precision reassembly



HVAC Systems

Air conditioning system diagnostics, repair, and recommissioning with refrigerant charging



Cargo Hold Services

Heavy contamination removal and cargo space preparation for operational readiness



Deck Equipment

Crane component replacement and cargo handling equipment maintenance

WORK DONE CERTIFICATE

Vessel : m.v. Kota Dahlia

Port : NSD Kolkata

Commenced : 20/05/2025

Completed : 21/05/2025

Work Order No. :

A/C : Deck

WDC No. :

Job No : 2505 / 1076

(BA-21)

Ballast Tank-Top leaking at location Bay 20, Row 01 Port – to repair :

API vide confirmatory email dated 19/05/2025 from H.O. PIL Kolkata, sent technicians / manpower onboard along-with necessary new base materials, tools, gears, welding machines, electrodes, DA/ O2 after clearing all gate, port, customs, etc. formalities at NSD Kolkata on 20/05/2025

Discussed with ship-staff on 19/05/2025 after vessel's berthing. Instructed by ship-staff to commence work on 20/05/2025 after cargo discharge.

Workscope onboard:

Removed the damaged sections, as shown by ship-staff, along-with cone by gas-cutting / gouging using workshop supplied DA / O2 gas.

Cleaned the surface by grinding. The hole from which the water was coming out from Ballast Tank repaired by welding.

Gas-cut workshop supplied new Steel Doubler Plate as per dimensions.

Prepared weld preparations (V) on surface & doubler plates. Fitted the workshop supplied new steel doubler plate in position, welded the joints by multi-run electric welding using workshop supplied low hydrogen welding electrodes. After completion of fitment / welding, the weld deposits cleaned by grinding and smoothen the surface. Fitted / welded the ship-supplied new Cone on the base plate / Ballast Tank-Top Doubler. The weld deposits cleaned by grinding and smoothened the surface.

Work carried out using Workshop Supplied Steel Plate / doubler at location as under-noted:

1) Bay 20, Row 01 Port Aft with base cone 10mm thick x 1000mm x 1000mm – 1no.

All operations carried out in the presence of ship-staff. After completion of work, shown to ship-staff. Checked by ship-staff and the work found satisfactory.

Working Hours : Normal + Overtime basis.

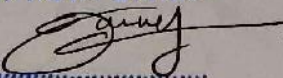
Workshop tools, gears, cylinders etc removed from work area /cleaned and landed ashore on 21/05/2025.

Workshop supplied materials / consumables used:

- 1) Steel Plate : 10mm x 1000mm x 1000mm – 1 no.
- 2) Welding Electrodes Low Hydrogen 4mm – 2 pkts.
- 3) DA + Oxygen gas
- 4) Grinding wheels

Base Cone – ship-supplied

M.V. KOTA DAHLIA


CHIEF OFFICER

21. 05. 2025

WORK DONE CERTIFICATE

Vessel : m.v. Kota Dahlia

Port : NSD Kolkata

Commenced : 02/05/2025

Completed : 03/05/2025

Work Order No. :

A/C : Deck

WDC No. :

Job No : 2505 / 1071 / 1

Ballast Tank-Top leaking at location Bay 03 & Bay 21 – to repair :

API vide confirmatory email dated 30/04/2025 from H.O. PIL Kolkata, sent technicians / manpower onboard along-with necessary new base materials, tools, gears, welding machines, electrodes, DA/ O2 after clearing all gate, port, customs, etc. formalities at NSD Kolkata on 02/05/2025
Discussed with ship-staff, work commenced.

Workscope onboard:

Removed the thinned down sections, as shown by ship-staff, along-with cones by gas-cutting / gouging using workshop supplied DA / O2 gas. Clean the surface by grinding. Gas-cut workshop supplied new Steel Doubler Plates as per dimensions. Prepared weld preparations (V) on surface & doubler plates. Fitted the workshop supplied new steel doubler plates in position, welded the joints by multi-run electric welding using workshop supplied low hydrogen welding electrodes.

After completion of fitment / welding, The weld deposits by grinding and smoothen the surface. Fitted / welded the ship-supplied new Cones on the base plates / Ballast Tank-Top. The weld deposits cleaned by grinding and smoothened the surface.

Work carried out using Workshop Supplied Steel Plates / doublers at location as under-noted:

Locations for doubler plates: Total: 02 nos. locations inside Cargo Hold Nos. 1 & 3 :

- 1) Bay 21, Row 01 Aft (with base cone) 10mm thick x 700mm x 1000mm – 1no.
- 2) Bay 03, Row 04 Fwd (with base cone) 10mm thick x 700mm x 1000mm – 1no.

All operations carried out in presence of ship-staff. After completion of work, all shown to ship-staff.

Working Hours : Normal + Overtime basis.

Checked by ship-staff - found satisfactory.

Workshop tools, gears, cylinders, etc. removed from work area / cleaned and landed ashore.

Workshop supplied consumables used:

- 1) Steel Plate (Gr. B) : 10mm x 700 mm x 1000 mm – 2 nos.
- 2) Welding Electrodes Low Hydrogen 4mm – 2 pkts.
- 3) DA + Oxygen gas
- 4) Grinding wheels

Base Cones – ship-supplied

M.V. KOTA DAHLIA



CHIEF OFFICER

03.05.2025

S. A. JAYASINGHE

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WORK DONE CERTIFICATE

Vessel : m.v. Kota Dahlia
Commenced : 02/12/2025
Work Order No. :
WDC No. : H.O. PIL, Kolkata

Port : NSD Kolkata
Completed : 04/12/2025
A/C :
Job No. : Deck / Engine

2512 / 1126

ME SEA WATER COOLING PIPELINES & AE SEA WATER INLET PIPELINES DAMAGED – TO RENEW API

As per instructions of the local office on 01/12/2025, attended the vessel on boarding at waiting berth on 02/12/2025 at NSD. Discussed the job with Ship staff on 02/12/2025 & all dimensions taken.. Work to commence from 03/12/2025
03/12/2025: Necessary new materials i.e. ms seamless pipes, bends, flanges, workshop tools, gears, DA/Oxygen cylinders, welding electrodes, welding machine etc. transported to NSD and placed onboard after clearing all necessary gate, port, etc. formalities. Work commenced.

1) ME SEA WATER COOLING PIPELINES RENEWAL: 3nos. using workshop supplied new materials & consumables

Pipe: ms seamless sch-80; size 6" dia x 3 nos.

The damaged ME SW pipelines x 3nos. removed in sections / sequence. The damaged pipelines in sections removed from position and taken to Deck. 1no. pipeline in-way (1000mm long) had to be removed to gain access / remove the damaged pipeline. Jig made on deck and the old damaged pipelines placed / fixed on jig. New pipelines fabricated as per sample / on jig using bends & flanges. After completion the new pipelines taken to position and fitted using bolts/ nuts & joints. The jig removed from deck and the work area cleaned. All shown to ship-staff.

Following 3 nos. pipelines fabricated onboard & fitted :

- a) ms seamless sch-80 pipe with 1no. s/l sch-80 Bend x 90deg. + 2 nos. ms Flanges
- b) ms seamless ch-80 pipe T-section with Branch Line with 1 no. s/l sch-80 Bend x 90deg. + 2nos. ms Flanges
- c) ms seamless sch-80 pipe with 2nos. s/l sch-80 Bend x 90deg. + 2 nos. ms Flanges

Note: Extra / Re- Work done api Ship-Staff:

i) After fitment of all pipelines, instructed by ship-staff to remove the new T-section pipelines & fit ship-supplied Butterfly Valve x 1no. in between. The T-section pipeline removed, modified and re-fitted with 1no. Butterfly Valve (extra work)

ii) After fitment of all new pipelines (w/s fabricated) in position, instructed by ship-staff to remove the new pipelines, weld ship-supplied anodes (for protection from corrosion) & fit back the pipelines. New anodes welded in the pipelines and fitted back api ship-staff.

iii) After completion of all pipelines' fitment using HT Bolts/ Nuts (ship-supplied), it was instructed by ship-staff to remove HT Bolts/ Nuts & use SS Bolts/ Nuts. New SS Bolts/ Nuts / Washers procured by workshop, delivered onboard after clearing all gate, port, etc. formalities. The workshop supplied SS Bolts/ Nuts/ washers fitted to connect the new pipelines after removing the HT Bolts/ Nuts. The HT Bolts / Nuts handed over to ship-staff.

After completion / fitment of above mentioned new fabricated pipelines, all system valves connected to the pipelines opened and the Pumps started. No leakage found from new pipelines or flanges' joints. All shown to ship-staff, found satisfactory.

Location of above pipelines : Under-floor plate with space constraints and limited access.

New Materials used (Workshop supplied) for ME SW Inlet Pipelines:

- 1) ms seamless sch-80 pipe: 6" dia x 3000mm long
- 2) ms seamless sch-80 Bend : size 6" x 90 degree – 3 nos.
- 3) S.S. Bolts/ Nuts/ washers: M20 x 40mm long – 40 nos.
- 4) S.S. Bolts/ Nuts/ washers: M20 x 65mm long – 25 nos.

Ship-supplied materials: 1no. Short Bend 90deg x 6" (s/l sch-80); ms Flanges, Joints

contd.... 2

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M.V. KOTA DAHLIA
04 Dec 2025
SW pipe repair.

WORK DONE CERTIFICATE

Vessel : m.v. Kota Dahlia
Commenced : 02/12/2025
Work Order No. :
WDC No. : H.O. PIL, Kolkata

Port : NSD Kolkata
Completed : 04/12/2025
A/C :
Job No. : Deck / Engine
2512 / 1126

Page 2

2) AE SEA WATER COOLING INLET PIPELINE RENEWAL using ship-supplied materials:

Pipe: ms seamless sch-80; size 2 1/2" dia & 3" dia" dia x 3 nos. (total)

The damaged AE SW Cooling Inlet pipeline opened from position. The damaged pipeline removed by gas cutting from place in 2 sections as the pipeline was penetrating through the deck plate i.e. from 3" dia with 2 1/2" pipelines interconnected. Fresh jig made in 2 sections and the old pipeline placed / fitted on jig. New pipelines fabricated as per samples on jig. After completion the new pipelines taken to position and fitted using bolts/ nuts & joints. The jig removed from deck and the work area cleaned. All shown to ship-staff.

Following 3 nos. pipelines fabricated onboard & fitted using ship-supplied materials:

- a) ms seamless sch-80 pipe 3" dia interconnecting with 2 1/2" dia pipeline using ms flanges:
3" dia pipe x 3100mm long with 2 nos. flanges & 1no. Short Piece: 3" x 1000mm L with 2 nos. flanges
- b) ms seamless ch-80 pipe 2 1/2" dia x 2500mm long + 45deg short bend x 2 nos. & 2nos. ms flanges

Note: Extra / Re- Work done api Ship-Staff:

- i) After fitment of all pipelines, instructed by ship-staff to remove the 1no. w/s fabricated new pipeline (3" dia Bottom side) & fit ship-supplied Butterfly Valve x 1no. in between. The pipeline removed, modified and re-fitted with 1no. Butterfly Valve (extra work)
- ii) After completion of all pipelines' fitment using HT Bolts/ Nuts (ship-supplied), it was instructed by ship-staff to remove HT Bolts/ Nuts & use SS Bolts/ Nuts in place. New SS Bolts/ Nuts / Washers procured by workshop, delivered onboard after clearing all gate, port, etc. formalities. The workshop supplied SS Bolts/ Nuts/ washers fitted to connect the new pipelines after removing the HT Bolts/ Nuts. The HT Bolts / Nuts handed over to ship-staff.

After completion / fitment of above mentioned new fabricated pipelines, all system valves connected to the pipelines opened and the Pumps started. No leakage found from new pipelines or flanges' joints. All shown to ship-staff, found satisfactory.

Above work carried out on urgent basis working round the clock 03/12/2025 to 04/12/2025 (Normal + O.T.) using double set of workshop teams

All workshop tools, gears, etc. removed from work area and landed ashore. Work area cleaned.
All work carried out in presence of ship-staff. After completion checked by ship-staff, found satisfactory.

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TMB SHIPPING PVT LTD

WORK DONE CERTIFICATE

Vessel : m.v. Kota DAHLIA
Commenced 04/12/2025
Work Order No. :
WDC No. : PIL,Kolkata

Port : NSD Kolkata
Completed : 23/12/2025
A/C :
Job No. : Engine
2512 / 1127

1) Main Engine Sea Water inlet defective / damaged pipelines removed from place & Fabrication with Rubber Vulcanisation & supplied – 3 nos.

As per instructions from H.O. PIL, Kolkata, sent Technicians onboard. Joint inspection done with ship-staff. Upon confirmation from ship-staff, the corroded / damaged pipelines landed and transported to workshop for new fabrication after clearing all necessary gate, port, etc. formalities on 04/12/2025.

At workshop: Fabricated 03 nos new pipes as per old landed 3 nos samples pipes. All new materials workshop supplied.

RUBBER VULCANISATION: After fabrication above pipes, sent for Rubber Vulcanization.

Onboard: The workshop fabricated new rubber Vulcanized pipelines transported and delivered onboard after clearing all necessary gate, port, etc. formalities on 23/12/2025. *03 NOS OLD PIPES RETURNED BACK ON BOARD AFTER CLEARING ALL NECESSARY GATE, PORT, ETC. FORMALITIES ON 23/12/25*
Following pipelines fabricated at workshop & Vulcanised as per samples using Workshop Supplied New Material:

1) ms seamless Sch-80 Pipes: 150 mm NB x 930 mm long with 1 no 90 deg. sch-80 Bends & 2 nos. ms flanges for 150 NB pipe.

2) ms seamless Sch-80 Pipes: 150 mm NB x 1170 mm long and 1 Branch of 150 long with 01 no 90 deg sch-80 bend and 3 nos Flanges for 150 mm NB pipe.

3) ms seamless Sch-80 Pipes: 150 mm NB x 700 mm long with 02 nos 90 deg sch-80 bends and 2 nos Flanges for 150 mm NB pipe.

All checked by ship-staff, found satisfactory. Working Hours : Normal + Overtime

Signature
M.V. KOTA DAHLIA
23/12/2025

TMB SHIPPING PVT LTD

WORK DONE CERTIFICATE

Vessel : m.v. Kota Dahlia

Port : NSD Kolkata

Commenced : 12/01/2026

Completed : 13/01/2026

Work Order No. :

A/C : Deck / Engine

WDC No. :

Job No. : 2601/1140

A.E. SEA WATER PIPELINES DAMAGED x 4 nos. – TO RENEW API

As per instructions vide email dated 11/01/2026 from Kolkata Office, attended the vessel at NSD. Inspection done jointly with ship-staff. Discussed the job with Ship staff & all dimensions taken.

Necessary workshop tools, gears, DA/Oxygen cylinders, welding electrodes, welding machine etc. transported to NSD and placed onboard after clearing all necessary gate, port, etc. formalities. Work commenced on 12/01/2026.

1) AE SEA WATER PIPELINES RENEWAL: 4nos. using ship-supplied new materials (pipes, bends, flanges, reducer, bolts/nuts)

Pipe: ms seamless sch-80; size 4" dia & 3" dia.

The damaged AE S.W. pipelines x 4nos. removed in sections / sequence. The damaged pipelines in sections were removed from position and taken to Deck. Jig made on deck and the old, damaged pipelines placed / fixed on jig. New pipelines fabricated as per sample / on jig using bends & flanges. After completion the new pipelines' weld joints smoothened by grinding, taken to position and fitted using bolts/ nuts & joints. The jig removed from deck and the work area ground, cleaned. All shown to ship-staff.

Following 4 nos. pipelines fabricated onboard & fitted :

- ms Seamless Sch-80 Pipe 4" dia x 1650mm long (with 1no. Reducer 4" x 5") with 1no. Bend & 3nos. Flanges (AEs outlet to Overboard pipe)
 - ms Seamless Sch-80 Pipe 4" dia x 1300mm long with 1no. Branch 430mm L & 1no. Bend + 2nos. fabricated bends (45deg) made by w/s + 3nos. Flanges (AEs outlet to Overboard pipe)
 - ms Seamless Sch-80 Pipe 3" dia x 1500mm L with 1no. Bend & 2nos. Flanges (Aux. Boiler drain cooler outlet SW pipe)
 - ms Seamless Sch-80 Pipe 3" dia x 2800mm L with 2nos. Branch Lines 200mm L each with 4nos. Flanges + 2nos. fabricated bends (45deg ea) made by w/s (Accommodation gray water drain pipe)
- Fitment of all new pipelines done using HT Bolts/ Nuts, new joints.

After completion / fitment of above mentioned new fabricated pipelines, all system valves connected to the pipelines opened. No leakage found from new pipelines or flanges' joints. All shown to ship-staff, found satisfactory.

Working Hours : Normal + Overtime (round the clock 12/01/2026 till 13/01/2026 morning)

All workshop tools, gears, cylinders, etc. landed ashore on 13/01/2026

Work carried out taking all procedural & safety precautions.

Location of above pipelines : Under-floor plate with space constraints and limited access.

New Materials used (Workshop supplied):

- DA + Oxygen Gas cylinders – 2: 4
- Welding Electrodes.
- Grinding Wheels

Note: All old damaged pipelines, etc. handed over to vessel.

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WORK DONE CERTIFICATE

Vessel : m.v. Kota Dunia Port : NSD Kolkata
Commenced : 14/10/2025 Completed : 16/10/2025
Work Order No. : A/C :
WDC No. : H.O. PIL, Kolkata email Job No. : Deck / Engine
2510 / 1106

A) Engine Room Bunker / D.O. Filling Pipelines (Stbd.) defective – To renew:

As per instructions vide email dt. 13/10/2025 from Kolkata office, attended the vessel waiting berth / NSD Buoy on 14/10/2025. Joint inspection done with ship-staff. Instructed by ship-staff to commence work after vessel's shifting to cargo berth on 15/10/2025 AM. Manpower with necessary tools, gears, new materials, flanges, butterfly valve, welding machines, DA/ Oxygen cylinders & other consumables sent onboard after clearing all necessary gate, port, etc. formalities at NSD on 15/10/2025 morning.

15/10/2025 onwards at NSD Cargo-Berth :

Access : Manhole tunnel from mid-ship cross-deck to Stbd. Void space (extreme Aft).

Defective pipelines: 2 nos. pipelines with joining sleeve passing through bulkhead connected with 1no. defective Butterfly valve after bend pipe leading to D.O. Tank. Instructed by ship-staff, not to disturb the distance piece / pipe connected to D.O. Tank. As instructed by ship-staff, the system's Butterfly valves x 2nos. blanked using w/s supplied blanks – 1 no. in E.R. & 1no. inside Void space.

As advised by ship-staff, the defective pipelines with bend removed from position, before the distance piece / pipe along-with the defective Butterfly Valve by cutting using w/s grinding machine (using cutting wheels). The pipeline & joining sleeve in bulkhead removed by gas-cutting using w/s DA/ Oxygen gas. With space constraint, the removed defective pipelines with butterfly valve cut in sections & shifted to open area / on deck.

New pipelines fabricated in sections for easy access to confined space. The pipe sections shifted inside Void space, taken to position and connected / welded using ms seamless sch-80 sleeves / sockets (ID 90mm) inside bulkhead with extra overlapping 125mm nb sockets. ~~The w/s supplied new gear operated Butterfly Valve connected / fitted with the pipeline in position.~~ All weld slags cleaned / smoothened by grinding. Fitment of the new pipelines with butterfly valve completed and shown to ship-staff. Trial taken by ship-staff, found satisfactory. API from ship-staff, the tunnel pipelines from Engine Room to Void space leak tested with air-pressure, no leak detected / found satisfactory. The work carried out in presence of ship-staff.

All checked by ship-staff, found satisfactory. Working Hours : Normal + Overtime (round the clock)

All workshop tools, gears, cylinders, etc. removed from work area and landed ashore. The work area cleaned.
Work carried out inside confined space taking all safety & procedural precautions

1) Workshop supplied new materials:

- a) ms Flange OD 185mm x PCD 150mm x 18mm thick x 8 nos. holes – ~~5 nos.~~ 4 nos
- b) ms Blank OD 185mm x PCD 150mm x 1no. ✓ x 2 nos
- c) ms Flange OD 225mm x PCD 180mm x 20mm thick x 8 nos. holes – 1no. ✓
- d) ms Blank OD 225mm x PCD 180mm x 20mm thick – 1 no. ✓
- e) ms seamless sch-80 Socket / Sleeve OD 120mm x ID 90mm x 100 long x 8 nos. X
- f) Butterfly Valve – Gear operated 3" nb x 65mm thick x 1no. X
- g) G.I. Bolts / Nuts M16 x 125mm long x 16 nos. ✓
- h) G.I. U-Clamps with nuts for 88mm OD Pipe – 2nos. ✓

2) Ship-supplied new materials: ms Seamless Sch-80 pipes 88mm OD & 2nos. seamless Bends & ms seamless Sockets 125mmnb x 14 nos.

Total Pipelines renewed with bends : 8 mtrs.

M. V. KOTA DUNIA

B) Additional Supply made api / aps :

High Tensile Bolts (Grade 10.9) with Spring Washers
& extra Plain Washers aps – 20 sets

Checked by ship-staff, found satisfactory

M. V. KOTA DUNIA

17-005-2025

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WORK DONE CERTIFICATE

Vessel :	m.v. Kota Dunia	Port :	NSD Kolkata
Commenced :	27/05/2025	Completed :	28/05/2025
Work Order No. :		A/C :	Engine
WDC No. :	Email dt. 27/05/25 from PIL, Kolkata	Job No. :	2505 / 1077

Main A.C. System - Frosting / icing found on Evaporator tube & Suction Line flooding back. Expansion valve malfunctioning – To Repair / Re-commission system

As per instructions vide email dated 27/05/2025 from PIL, Kolkata sent Technicians onboard to inspect the Main A.C. System. Joint inspection done by ship-staff.

Workscope onboard:

API from ship-staff, the job commenced. The system refrigerant collected / transferred in ship-supplied empty cylinders after cooling them in provision room. The collected refrigerant in cylinder stored / secured onboard ap ship-staff.

The defective Expansion Valve opened after removing the top/ power assy. The stuck nut inside the expansior valve removed. 2 nos. new top / Orifices No. 7 aps procured aps.

System Pressure Testing & Vacuumising:

The entire system then flushed with workshop supplied dry nitrogen gas repeatedly and thoroughly to remove dirt moisture & oil from system. Both Cooling Coils / Evaporators, Condenser, Receiver etc. flushed with nitrogen gas. Filter Drier opened cleaned, renewed the Filter Cartridges (workshop supplied). Boxed back the drier unit. The Main A.C. system then charged with nitrogen gas (high side & low side including compressor) to check for leakage. System kept under nitrogen pressure. Leak detected at Condenser's sight-glass, same repaired / rectified. System again checked with nitrogen pressure, no leak detected. API ship-staff, the low side including both evaporator: pressure tested at 10 Bar & High side including Condenser etc. at 21.5Bar. All found in order. All shown to ship-staff. Upon confirmation from ship-staff, nitrogen gas released from the system.

System Gas-Charging & Re-Commissioning:

API from ship-staff, the Main A.C. system vacuumised using workshop supplied vacuum pump upto -30. Shown to ship-staff. Vacuum kept on hold satisfactorily for hours. API from ship-staff, fresh refrigerant (ship-supplier R404A) charged into the system and the Main A.C. system re-commissioned. Cooling found in order. No frosting / icing noted. Expansion Valves and other cut-out devices found working satisfactorily. The Main A.C. system handed over to vessel for further use.

All checked by ship-staff, found satisfactory. Working Hours : Normal + Overtime
All workshop tools, gears, nitrogen cylinders, vacuum pump etc. removed from work area and landed ashore.

New materials Used (Workshop Supplied):

- 1) Expansion Valves' Top assy. / Orifice No. 07 aps (Danfoss, for Type: TE 12) – 2 nos.
- 2) Danfoss Filter Drier Core / Cartridges – 2 nos.
- 3) Nitrogen Gas – 4 cylinders.
- 4) Brazing Stick – 4 nos. supplied api ship-staff
- 5) Copper pipe – 7/8" – 1 feet.

M. V. KOTA DUNIA

[Signature]
28/05/25
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TMB SHIPPING PVT LTD

WORK DONE CERTIFICATE

Vessel : m.v. Kota Dunia

Commenced : 22/09/2025

Work Order No. :

WDC No. :

Port :

Completed :

A/C :

Job No. :

NSD Kolkata

24/09/2025

Deck / Engine

2509 / 1102

VARIOUS PIPELINES TO RENEW :

API from H.O. Kolkata sent manpower onboard and carried out the renewals of various pipelines with branch lines using Workshop supplied New SCH-80 pipelines, new m.s. Flanges, new Nuts + Bolts, Oxygen & Acetylene, Electrodes etc.

1. M.E F.W. COOLER S.W OUTLET PIPE

2. GEAR BOX COOLER S.W. INLET PIPE

EXTRA JOB :

3. GEAR BOX COOLER S.W. INLET PIPE WITH BRANCH LINE / FLANGES & REDUCER

4. SUPPLIED 06 NOS M.S. FLANGES PCD : 200 X ID 125MM X 8 HOLES OF 18MM DIA

Work carried out on Normal + Overtime basis.

Checked by ship-staff, found satisfactory

M. V. KOTA DUNIA


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25-SEP-2025

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WORK DONE CERTIFICATE

Vessel : m.v. Kota Duta
Commenced : 26/11/2025
Work Order No. :
WDC No. : H.O. PIL, Kolkata

Port : NSD Kolkata (Buoy)
Completed : 27/11/2025
A/C :
Job No. : Deck / Engine
2511 / 1121

ME SEA WATER COOLING OUTLET PIPELINES & AE SEA WATER COOLING INLET PIPELINES DAMAGED – TO RENEW API

As per instructions of the local office, attended the vessel on boarding at waiting berth on 25/11/2025 at NSD Buoys using workshop arranged Boat service. Discussed the job with Ship staff on 25/11/2025. Work to commence from 26/11/2025

26/11/2025: Necessary new materials i.e. ms seamless pipes, bends, flanges, workshop tools, gears, DA/Oxygen cylinders, welding electrodes, welding machine etc. transported to NSD, same transferred to workshop arranged Boat and all items placed onboard at NSD Buoys after clearing all necessary gate, port, etc. formalities. Work commenced.

A) ME SEA WATER COOLING OUTLET PIPELINES RENEWAL:

The damaged ME SW outlet pipeline found cement boxed. API from ship-staff, the cement box broken by w/s team to access the pipeline. After breaking the cement box, found the said pipelines in 2 sections with 5 nos. flanges & 1no. Sch-80 Bend 90degree. The length of the pipe 800mm (ms seamless sch-80 x 5" dia). The damaged pipelines in sections removed from position and taken to Deck. Jig made on deck and the old damaged pipelines placed / fixed on jig. New pipeline fabricated as per sample / on jig using bends & flanges. After completion the new pipelines taken to position and fitted using bolts/ nuts & joints. The jig removed from deck and the work area cleaned. All shown to ship-staff.

B) AE SEA WATER COOLING INLET PIPELINE RENEWAL:

The damaged AE SW Cooling Inlet pipeline opened from position (one end from flange and other end gas-cut). The damaged pipeline removed from place in 2 sections as the pipeline was penetrating through the deck plate. Fresh jig made in 2 sections and the old pipeline placed / fitted on jig. New pipeline fabricated as per samples on jig. After fabrication, the new pipeline taken to position and welded in one section and balance fitment completed.

After completion / fitment of above mentioned new fabricated pipelines, all system valves connected to the pipelines opened and the Pumps started. No leakage found from new pipelines or flanges' joints. All shown to ship-staff, found satisfactory.

Location of above pipelines : Under-floor plate with space constraints and limited access.

Above work carried out at NSD Buoys using Workshop arranged Boat service on 25/11/2025, 26/11/2025 & 27/11/2025.

Above work carried out on urgent basis working round the clock 26/11/2025 to 27/11/2025 (Normal + O.T.)

All workshop tools, gears, etc. removed from work area and landed ashore. Work area cleaned.

All work carried out in presence of ship-staff. After completion checked by ship-staff, found satisfactory.

New Materials used [Workshop supplied] for AE SW Inlet Pipelines:

- 1) ms seamless sch-80 pipe: 4" dia x 4000mm long
- 2) ms seamless sch-80 pipe: 1 ½" dia x 200mm long (branch Line)
- 3) ms seamless sch-80 Long Bend : size 4" x 90 degree – 1 no.
- 4) ms seamless sch-80 Short Bend : size 4" x 90 degree – 3 nos.
- 5) ms Flanges for above pipelines (for 4" & 1 ½" pipes) – 3 nos.
- 6) ms seamless sch-80 Socket (for 4" dia pipe) – 3 nos.
- 7) H.T. Bolts/ Nuts/ washers: M20 x 65mm long – 40 nos.
- 8) H.T. Bolts / Nuts: M12 x 60mm long – 4 nos.
- 9) Rubber Joint for flanges

M.V. KOTA DUTA


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WORK DONE CERTIFICATE

Vessel :	m.v. Kota Rakyat	Port :	NSD Kolkata
Commenced :	21/03/2025	Completed :	23/03/ 2025
Work Order No. :		A/C :	
WDC No. :		Job No :	Deck / Engine
			2503 / 1063

Bay 06 & Bay 14 Cell Guides damaged – to repair / renew

API from PIL, Kolkata vide email dated 20/03/2025, sent manpower onboard with necessary tools, gears, DA / O2 gas, electrodes, etc. after clearing all gate, port, etc. formalities upon vessel's arrival at NSD Kolkata.

21/03/2025 Workshop team boarded vessel evening. Discussed with ship-staff about commencement of the cell guide renewal. Instructed by ship-staff to start work after completion of cargo discharge. Manpower kept idle onboard throughout 21/03/2025 night.

After completion of cargo-discharge, cell guides' renewal work carried out on following locations.

1) Bay 14 : Row 04 / Fwd. – Work commenced around 0500 Hours of 22/03/2025 after cargo-discharge.

2 nos. / layered staging made around the work area / height using workshop supplied staging materials. The damaged cell guide section gas-cut & removed. New ms angle (ship-supplied) transferred from Aft. stored area to work position. Same lowered inside cargo-hold taking all safety precautions. The new ms angle guide set/ aligned in position and fitted / welded by multi-run electric welding. All weld deposits cleaned and smoothened by grinding. Ship-supplied ms angle guide 4.5 mtrs. long renewed. After completion, staging removed and the work area cleaned. Balance / leftover angle handed over to vessel.

2) Bay 06 : Row 03 & Row 05 / Aft. - Work commenced 22/03/2025 afternoon after cargo-discharge.

4 nos. / layered staging made (from bottom to 4th Container's top height inside cargo-hold) around the work area using workshop supplied staging materials. The damaged cell guide sections gas-cut & removed. New ms angle (ship-supplied) transferred from Aft. stored area to work position. Same lowered inside cargo-hold taking all safety precautions. The new ms angle guide set/ aligned in position and fitted / welded by multi-run electric welding. All weld deposits cleaned and smoothened by grinding. Ship-supplied ms angle guide 4.5 mtrs. Long renewed. After completion, staging removed and the work area cleaned.

a) Row 03 – 3.5 mtrs. long Cell guide angle renewed

b) Row 05 – 2.5 mtrs. Long Cell Guide angle renewed

All work carried out in presence of ship-staff. After completion of work, same checked by ship-staff, all found in order / satisfactory. All workshop staging materials, tools, gears, gas cylinders (DA + O2), etc. removed and landed ashore on 23/03/2025 Sunday.

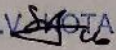
Checked by ship-staff, found satisfactory.

Working Hours : Normal + Overtime (Round the clock 21/03/2025 & 22/03/2025)

New materials used (workshop supplied):

- 1) DA & Oxygen Gas
- 2) Welding Electrodes 4mm
- 3) Grinding wheels
- 4) Staging materials : ms angles, wooden planks

Ship-supplied material: ms angle 150mm x 150mm x 2 lengths (6m each)

M.V.  RAKYAT

23-03-2025

CHIEF OFFICER

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WORK DONE CERTIFICATE

Vessel :
Commenced :
Work Order No. :
WDC No. : 24 / 08 / 2025

Port :
Completed :
A/C : NSD Kolkata
Job No. : 25 / 08 / 2025
Deck / Engine
2508 / 1095

Cell Guide Repair at Bay 23 Row 02 :

After confirmation of Cell Guide job from the local office, manpower boarded the vessel (1 Supervisor, 1 Fitter, 1 Welder, 1 Gas cutter & 3 Riggers) and inspected the job along with the Ship staff.

The staging which was already erected by the crew members of the vessel was not till the point of work. Thus, it had to be further set up to increase the height to another 04 mtrs to reach the working area.

03 nos. of Cell Guide Stiffeners were welded to the bulkhead & a Flat Bar was joined to the Stiffeners & Cell Guide. On the top of the Cell Guide Crown, 01 no. Flat Bar was used.

Materials Used (Ship Supplied) :

Size - Stiffener - 03 nos. = 12 x 600 x 220 mm
Support Flat Bar - 05 nos. = 14 x 200 x 100 mm
Cell Guide Top Crown - Flat Bar = 12 x 80 x 270 (01 no.)
Location = Bay 23, Row 02 FWD Port

After completion of the job, it was shown to the Ship staff, found satisfactory. All the stiffeners were painted and the staging was removed from the Cargo Hold and kept in the location given by the Ship staff.

The job commenced on 24 / 08 / 2025 & completed on 25 / 08 / 2025 working on round the clock basis.

Job COMMENCE 1720 LT / 24th

Job COMPLETED 1254 LT / 25th

M.V. KOTA RATNA


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WORK DONE CERTIFICATE

Vessel : m.v. Kota Ria
Commenced :
Work Order No. : 11/09/2025
WDC No. : PIL, Kolkata email dt. 10/09/2025

Port : NSD Kolkata
Completed :
A/C : 12/09/2025
Job No. : Deck / Engine
2509 / 1100

Bay 17 & Bay 06 Cell Guides damaged – to renew

API from H.O. PIL, Kolkata vide email dated 10/09/2025, sent Supervisor & Technician onboard for inspection upon vessel's berthing at NSD Kolkata on 10/09/2025 evening. Job shown by ship-staff. Instructed by ship-staff & Kolkata Office to commence work from 11/09/2025 upon availability of the cargo-hold.

Manpower sent onboard with staging angles, planks, necessary tools, gears, DA / O2 gas, electrodes, etc. after clearing all gate, port, etc. formalities at NSD Kolkata on 11/09/2025.

Upon availability of the cargo-hold, the cell guide renewal work commenced. Cell guides' renewal work carried out on following locations:

Bay 17 Fwd. Row 05 P + S ; Row 03 P ; Bay 02 P & Row 04 S – Total 5 nos. Cell Guides renewed using ship-supplied cell guide ms angles 14mm x 150mm x 150mm x 3000mm each x 5 nos.

Bay 06, Row 06 Aft P + S - Total 1 no. Cell Guides renewed using ship-supplied cell guide ms angles 14mm x 150mm x 150mm x 2600mm each x 2 nos. + Elephant Ears / Top Part 20mm x 450mm x 500mm x 2 nos. repaired & fitted / welded 01 Nos.

~ Total : 7 nos. Cell Guides (in Bay 17 & Bay 06 as above) cropped & renewed & 2 nos. Elephant Ears / Top Part repaired & fitted 01 Nos.

Workscope: Work commenced on 11/09/2025 afternoon after cargo-discharge / availability of the cargo-hold. Multi layered staging made around the work area using workshop supplied staging materials. The damaged cell guide section gas-cut & removed. Clean the surface by grinding. New ms cell guide angles (ship-supplied) transferred to work position. Same lowered inside cargo-hold taking all procedural & safety precautions. The new ms angles cell guide set/ aligned in position and fitted / welded by multi-run electric welding. All weld deposits cleaned and smoothened by grinding.

API from ship-staff, the cell guide's cracked top part / elephant's ear in Bay 06, Row 06 gas-cut, removed, cleaned and fitted with the new cell guide. After completion, staging removed and the work area cleaned. All work carried out in presence of ship-staff.

After completion of work, same checked by ship-staff, all found in order / satisfactory. All workshop staging materials, tools, gears, gas cylinders (DA + O2), etc. removed and landed ashore on 12/09/2025 evening.

Checked by ship-staff, found satisfactory.

Working Hours : Normal + Overtime (Round the clock 11/09/2025)

New materials used (workshop supplied):

- 1) DA & Oxygen Gas
- 2) Welding Electrodes 4mm
- 3) Grinding wheels
- 4) Staging materials : ms angles, wooden planks

Ship-supplied: Cell Guide ms Angles – 7 nos.

TOTAL 7 x Cell guides
1 x Elephant Ear
Renewed by ship Repair Team.

M.V. KOTA RIA

[Signature]
CHIEF OFFICER
12/09/2025

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WORK DONE CERTIFICATE

Vessel : m.v. Kota Ria
Commenced :
Work Order No. : 14/06/2025
WDC No. :
Port : NSD Kolkata
Completed : 16/06/2025
A/C :
Job No : Deck / Engine

2506 / 1083

Hatch-Covers / Pontoons damaged / wasted Fashion Plates, Lashing Bar I-Bars & ISO Sockets to crop & renew
API from H.O. Kolkata vide email dt. 14/06/2025, sent Technicians onboard to inspect the jobs. Joint inspection done onboard with ship-staff. Basis workscope shown by ship-staff following new materials along-with workshop tools, gears, welding machines, DA / Oxygen gas cylinders & other consumables etc. after clearing all necessary gate, port, etc. formalities on 14/06/2025.

Api ship-staff, to renew following:

- ~ Pontoon Fashion Plates – 130 nos. (workshop fabricated / supplied Fashion Plates)
- ~ Lashing Bar's I-Pad – 50 nos. at various location (ship-supplied I-Pads)
- ~ ISO Sockets on various locations (additional job)

For this port call / voyage – 50 nos. steel Fashion Plates fabricated & delivered for fitment onboard.
With hot-work permission allowed only till daylight hours, renewal of fashion plates & Lashing Bars' I-Pads work carried out till daylight hours.

1) Hatch-Covers / Pontoons' Fashion Plates to crop & renew:

The damaged / wasted / corroded Fashion Plates on Hatch-Covers / Pontoons removed by workshop supplied DA/Oxygen gas. The surface cleaned. Weld preparation made and workshop supplied new ms Fashion Plates set in position, fitted / welded by electric welding using workshop supplied welding electrodes, welding machine. Post fitment by welding, all weld slacks cleaned and the new fashion plates painted with ship-supplied red- oxide paint.

Above workscope i.e. renewal of Fashion Plates carried out at following locations:

- a) On Cargo Hold No. 1 Fwd. Pontoon - ms Fashion Plates renewed 8mm thick x 320mm x 250mm – 8 nos.
 - b) On Cargo Hold No. 1 Aft. Pontoon - ms Fashion Plates renewed 8mm thick x 320mm x 250mm – 8 nos.
 - c) On Cargo Hold No. 2 Fwd. Pontoon - ms Fashion Plates renewed 8mm thick x 320mm x 250mm – 10 nos.
- Total 26 nos.**

2) Hatch-Covers / Pontoons Lashing Bars' I-Pads & ISO Sockets to crop & renew:

The damaged I-Pads for Lashing Bars on Hatch-Covers / Pontoons removed by gas-cutting using workshop DA/Oxygen gas. The surface cleaned. Ship-supplied new I-Pads set in position, fitted / welded by electric welding using workshop supplied welding electrodes. Post fitment by welding, all weld slacks cleaned and the new fashion plates painted with ship-supplied red- oxide paint.

Above workscope carried out at following locations:

a) On Cargo Hold No. 1 Fwd. Pontoon:

- ~ Lashing Bars' I-Pads renewed – 7 nos. (5 nos. with 3 holes + 2 nos. with 2 holes)
- ~ ISO Socket renewed – 1no. (additional workscope)

b) On Cargo Hold No. 2 Fwd. Pontoon:

- ~ ISO Socket renewed – 5nos. { (4 nos. double socket & 1 no. single socket types). Additional workscope }

All operations shown to ship-staff. Checked by ship-staff, found satisfactory. Working Hours : Normal + Overtime
Contd... 2

M.V. KOTA RIA

CHIEF OFFICER

[Signature]
16/06/2025

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16 June 2025 at 7:10 pm

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WORK DONE CERTIFICATE

Vessel :	m.v. Kota Ria	Port :	NSD Kolkata
Commenced :		Completed :	
Work Order No.	14/06/2025	A/C :	16/06/2025
WDC No. :	H.O. PIL, Kolkata email 14/06/2025	Job No :	Deck / Engine
			2506 / 1083

Page 2

All workshop tools, gears, cylinders etc. removed from work area and landed ashore. Shown to ship-staff.

Note:

1) ms Fashion Plates – Total 130 nos. to crop & renew

Out of 50 nos. Fashion Plates delivered this call, total 26 nos. of Fashion Plates renewed this call (15/06/25 to 16/06/25).

Balance kept onboard for fitment next call.

Pending 80 nos. Fashion Plates will be delivered onboard on vessel's next port call.

2) Ship-supplied Lashing Bars' I-Pads to crop & renew – 50 nos.

Total 7 nos. renewed this call. Balance to renew on vessel's next port call/s

3) ISO Sockets to renew – to crop & renew as per vessel's instructions in forthcoming call/s

New Materials used (workshop supplied):

- i) ms Fashion Plates : 8mm thick x 320mm x 250mm – 50 nos. (26 nos. fitted, balance to fit next call)
- ii) DA / Oxygen Gas
- iii) Welding Electrodes

Ship-Supplied materials

- ~ Lashing Bars' I-Pads – 7 nos.
- ~ ISO Sockets – 6 nos.
- ~ Red Oxide paint

M.V. KOTA RIA

[Signature]
CHIEF OFFICER
16/06/2025

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OPPO A59 5G

16 June 2025 at 7:10 pm

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WORK DONE CERTIFICATE

Vessel :	m.v. Kota Rukun	Port :	NSD Kolkata
Commenced :	03/05/2025	Completed :	04/05/2025
Work Order No. :		A/C :	Deck
WDC No. :	H.O. Kolkata email dated 03/05/2025	Job No :	2505 / 1073

Inside Cargo-Hold No. 02 , Bay 05, 06 & 07 to oil spill & sludge to clean

API from H.O. Kolkata & confirmatory email dt. 03/05/2025, sent manpower with necessary consumables, gears, empty drums, etc. onboard after clearing all necessary gate, port, etc. formalities.
(inspection done on 02/05/2025 late evening upon vessel's arrival at NSD).

Cleaning Locations: Cargo Hold No. 2 – Bay 05, 06 & 07

Cargo-Hold Tank Top
Well Mouth
Aft, Port & Stbd

Workscope :

Manpower entered cargo-hold with necessary tools, consumables taking all safety precautions.
Removed / collected the spilled heavy fuel and sludge. Removed the rust & sawdust. Cleaned & manually stored the oily waste using workshop supplied buckets in empty Drums (200 ltrs capacity each) on main deck.

After removing the sludge & heavy oil all places / locations thoroughly cleaned / scraping done. Washed with workshop supplied diesel oil and the surfaces made dry with cotton rags. Thoroughly scraped and cleaned / washed with diesel, dried the cargo-hold with workshop supplied cotton rags.

Removed the oily rags & sawdust in workshop supplied garbage bags from vessel and landed ashore / disposed off at shore.

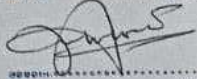
Above job carried out using workshop supplied numerous labourers / manpower.
Workshop tools, gears, etc. removed from place and landed ashore. All shown to ship-staff.

Checked by ship-staff, found satisfactory
Working Hours: Normal + Overtime (round the clock).

New materials used (workshop supplied):

- 1) Cotton Rags – 150 kg
- 2) Garbage Jumbo Bags – 100 nos.
- 3) Bucket – 10 nos.
- 4) Scraper – 10 nos.
- 5) Empty Drums / barrels (200 ltrs capacity each) – 10 nos.
- 6) Diesel – 50 ltrs.

M.V KOTA RUKUN


MASTER

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OPPO A59 5G Haldia ★ BujBuj ★ Paradip ★ Diamond Harbour

WORK DONE CERTIFICATE

Vessel :	m.v. Kota Hakim	Port :	Kolkata Port NSD
Commenced :	11/07/2024	Completed :	12/07/2024
Work Order No. :	PIL Kolkata email dt. 11/07/2024	A/C :	Engine
WDC No. :		Job No :	2407 / 1032

URGENT BASIS JOB

M.E. UNIT # 5 OVERHAULING (Engine type: Mitsubishi - Engine model: 6UEC52LS) :

API vide email dated 11/07/2024 from PIL Kolkata office, sent technicians / manpower onboard along-with necessary tools, gears, lifting block after clearing all gate, port, customs, etc. formalities.

Discussed with ship-staff, work commenced 11/07/2024 night after cooling of M.E.

Following jobs undertaken:-

- 1) Disconnected all pipelines from cylinder head and mountings.
- 2) Opened all 08 nos. tie rod nuts using ships supplied jacks.
- 3) Lifted cylinder head along with exhaust valve assembly and kept on engine room platform.
- 4) Marked piston and stuffing box position.
- 5) Opened stuffing box nuts and marked.
- 6) Lifted the Piston and secured in place taking all procedural precautions.
- 7) All items Cleaned/ decarbonized piston, liner, cylinder head landing seat etc.
- 8) Liner lubrication checked manually using lubricators
- 9) Inspected liner and calibration taken by ship staff. Piston axial, butt clearances taken.
- 10) All piston rings renewed (ship-supplied piston rings)
- 11) Piston boxed back, Stuffing box nuts tightened as instructed by ship-staff
- 12) Cylinder head bottom gasket groove cleaned.
- 13) Renewed all gasket and "O" rings. Cylinder head fitted back, all tie rod nuts tightened as per instruction of ship staff using jacks. (Gasket & O-Rings ship-supplied)
- 14) All pipelines and mounting fitted back. Main engine prepared for starting. Check for leakages, found satisfactory.
- 15) The engine started, found running satisfactory.

All operations carried out in presence of ship-staff.

Working Hours : Normal + Overtime basis (round the clock)

Checked by ship-staff - found satisfactory.

Workshop tools, gears, etc. removed from work area and landed ashore.

M.V. KOTA HAKIM

Chief Engineer