Diadem Ship Repair Pvt. Ltd.
Registered Address: Sharad Wadi Room No. 2, Near Basant Cinema, Dr. C.G. Road, Chembur, Mumbai. 400074
Office Address: 18, ground Floor, Daulat Udyog Bhavan, Wadhavali Village, Dr. C.G. Road, Chembur, Mumbai. 400074

WORK DONE REPORT

MAIN ENGINE COOLING SEA WATER PUMP – OVERHAULING & REPAIR

Client / Vessel	MT AVYAAN	**Report Date**	12/09/2026
Equipment	Main Engine Cooling Sea Water Pump	**Job Status**	Completed
Workshop	Diadem Ship Repair Pvt. Ltd.	**Test Status**	Physically Tested – OK
Reference	Pump received at workshop for overhauling & repair	**Remarks**	Ready for dispatch / installation

1. Scope of Work

Overhauling, inspection, repair and reconditioning of the Main Engine Cooling Sea Water Pump after receipt of the complete pump at our workshop, including replacement/fabrication of damaged components, machining, assembly, alignment and physical testing.

2. Inspection & Findings

- Pump was completely dismantled at our workshop for detailed inspection.
- Pump shaft was found damaged/worn and required replacement.
- Wearing ring was found damaged/worn and required replacement.
- Mechanical seal was renewed.
- O-rings were found due for replacement and a new O-ring set was provided.
- Impeller required build-up and machining to restore the required profile/dimensions.
- Impeller key was found requiring renewal and a new key was fabricated.
- Shaft bush was required and was fabricated and installed.

3. Work Carried Out

1. Complete dismantling and cleaning of pump components.
2. Inspection of shaft, impeller, casing, wearing arrangement and sealing components.
3. New Shaft fabricated and installed.
4. Impeller metal build-up followed by precision machining.
5. New impeller key fabricated as required.
6. New shaft bush fabricated and installed.
7. Wearing ring replaced.
8. Mechanical seal replaced.
9. Complete O-ring set replaced.
10. Pump components reassembled and boxed-up with proper alignment.
11. Pump manually/physically checked after assembly; rotation and assembly condition found satisfactory.

4. Spares Supplied Along With the Repaired Pump

Sr. No.	Description	Quantity
1	Mechanical Seal	1 Set
2	Wearing Ring	1 No.
3	Shaft Bush	1 No.
4	O-Ring Set	1 Set

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5. Final Inspection & Test

After completion of the repair and assembly, the pump was boxed-up with proper alignment and physically *checked. The pump was found satisfactory and OK during the physical/manual trial. The repaired pump is* ready for dispatch and installation.

6. Remarks

The above work was carried out at our workshop based on the condition of the pump received. Damaged/worn components identified during dismantling were repaired, machined, fabricated or replaced as applicable. *Photographs of the dismantling, damaged components, machining, new/fabricated components and final* condition are attached for reference.

For Diadem Ship Repair Pvt. Ltd.	Client / Vessel Representative
Name: Santosh Vithal Shinde	Name: AYUSH CHANDRA
Signature:	Signature: ayushchandra

SAMSHIP MARINE SERVICES LLP * Kolkata

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PHOTO ANNEXURE



Photo 1: Pump internals and casing condition during dismantling.



Photo 2: Dismantled pump components, shaft and sealing components.



Photo 3: Pump shaft showing wear/damage before repair.



Photo 4: Impeller condition and wearing surface before reconditioning.



Photo 5: Pump casing / shaft bush housing inspection



Photo 6: Reconditioned and machined shaft.



Photo 7: New/fabricated components and sealing parts.



Photo 8: New/fabricated shaft and sealing arrangement during assembly.



Photo 9: New wearing component / impeller reconditioning work



Photo 10: Machining of component to restore required dimensions



Photo 11: Fabricated bush / wearing components and O-ring set for Supply Extra as Spares