

The Shipping Corporation of India Ltd., Mumbai

Bulk Carrier and Tanker Division

17.03.2025

Sub.: M.T. Desh Abhimaan - Requirement of Dry-dock Paints

Captioned vessel is scheduled to dry-dock at one of the dry dock in Gulf Area by 3rd week of June'2025. Requirements of paints for the forthcoming dry-docking of the vessel and areas mentioned hereunder. It may be noted that last dry dock of the vessel was completed at Asyad Drydock, Duqm, Oman on 28.02.2023 and paint used from maker - **Hempel's Antifouling Atlantic** [(Copper(1)oxide (CAS No. 1317-39-1), Zinc ethylene-1, 2-bis-dithiocarbamate (CAS No. 12122-67-7)]. Nominated paints must be fully compatible with the existing system.

1. **TOP SIDE:**

Total area - 4686 M2
Area to be blasted - 1500 m2

Painting Scheme:-

- A. One coat T/up epoxy primer 100 Mic. DFT
- B. One coat T/up pure epoxy primer 100 Mic. DFT
- C. One coat T/up with epoxy mastic top coat black 75 Mic. DFT
- D. One full coat epoxy mastic finish black 100 Mic. DFT

2. **Boot Topping:**

Total area - 4400 m2
Area to be blasted - 2640 m2

Painting Scheme:-

- A. One coat T/up pure epoxy primer 125 Mic. DFT
- B. One coat T/up tar free epoxy 125 Mic. DFT
- C. One coat T/up epoxy tie coat 125 Mic. DFT
- D. One full coat TBT free SPC antifouling A/F - 125 Mic. DFT – Pink shade
- E. One full coat TBT free SPC antifouling A/F - 125 Mic. DFT – Red Brown shade

3. **Vertical Bottom: (Low friction paints)**

Total area - 4431 m2
Area to be blasted - 4431 m2

Painting Scheme (Low friction paints):-

- A. One coat T/up pure epoxy primer 125 Mic. DFT
- B. One coat T/up tar free epoxy 125 Mic. DFT
- C. One coat T/up epoxy tie coat 125 Mic. DFT
- D. One full coat TBT free SPC antifouling A/F - 125 Mic. DFT – Pink shade
- E. One full coat TBT free SPC antifouling A/F - 125 Mic. DFT – Red Brown shade

4. **Flat Bottom: (Low friction paints)**

Total area - 10029 m2
Area to be blasted - 10029 m2

Painting Scheme (Low friction paints):-

- A. One coat T/up pure epoxy primer 125 Mic. DFT
- B. One coat T/up tar free epoxy 125 Mic. DFT
- C. One coat T/up epoxy tie coat 125 Mic. DFT
- D. One full coat TBT free SPC antifouling A/F - 125 Mic. DFT
- E. One full coat TBT free SPC antifouling A/F - 125 Mic. DFT

NOTE:

- 1) 250 m² full blasted area on each vertical side (i.e. fender area on port & starboard side and mechanical damage area caused by anchor chain in Bow Area) will be coated with one coat of anti abrasive paint of 200 Mic. DFT, instead of one coat touch up.
- 2) Final coat of SPC anti fouling (TBT free) on flat and vertical bottom should be red brown in shade.

5. **Markings:**

- A. All shipside markings i.e. draft marks, name, free board, plimsol marks, bow emblem etc. Coat to be epoxy white – require 200 Ltrs.
- B. Helicopter winching zone, tug marks etc. final coat to be painted with epoxy yellow – require 40 Liters.
- C. **Anchor chains /Chain lockers** to be painted after Std 3 power tooling – tar free epoxy shade brown – require 200 liters.(Approximate area -350 m²)
- D. **Both Gangways** to be painted with Aluminum paints. - 60 Liters.
- E. Metallic parts of both the Life Boats to chip to STD 3 – Paint with 2 coats of epoxy primer and two coats of t/up -10 m² areas. One full coat of both the LBs of International Orange to paint with 75 Mic. DFT (externally).
- F. Solvent free epoxy filler – require 30 kg in 1 Kg packs for pit filling in cargo and ballast tanks.

6. **Weather Deck & Pipelines and fittings:**

- 6.1 Total area (Deck) - 11400 m²
Area to be blasted - 1300 m²

Painting Scheme:-

- A. One coat T/up pure epoxy primer 75 Mic. DFT
- B. One coat T/up Epoxy MIACOAT 100 Mic. DFT
- C. One full coat Epoxy mastic deck orange - 100 Mic. DFT

- 6.2 Total area (Pipelines & Flanges) - 5500 m²
Area to be blasted - 600 m²

Painting Scheme:-

- A. One coat T/up pure epoxy primer 75 Mic. DFT
- B. One coat T/up Epoxy MIACOAT 100 Mic. DFT
- C. One full coat Epoxy mastic deck orange - 100 Mic. DFT

- 6.3 HR Aluminum paint - 100 Liters for Steam lines on deck. Area 300 m²

7. **Superstructure:**

- a. Front and both sides of superstructure including underside of bridge wing (approximate area 2000 m²) to be coated with one coat of epoxy white finishing 100 Mic. DFT after two t/ups of epoxy primer.
- b. Accommodation deck areas – 1000 m² (Epoxy orange after spot power tooling to ST 3 and two t/ups of epoxy primer)
- c. Blasted / power tooled area considered for above to be 300 m²

8. **Funnel, Masts and Crane jibs:**

- a. Funnel to paint with HR Epoxy black paint after spot power tooling to ST 3. T/up – 02 coats primer, One full coat HR epoxy black (Total area 350 m²)
- b. Masts & Crane jibs to paint with Epoxy Buff after spot power tooling to ST 3. T/up -02 coats primer, One full coat epoxy Buff (Total area 300 m²)

9. **Pump room bilges / lines painting:** - Approximately 1000 m² area below the floor plate to be coated with two coat (100 Mic. DFT each) of epoxy paint grey.

10. **Ballast tanks / FW tanks & Cargo tanks:**

- 10.1 Total area (Ballast tanks) - 136200 m2
Area to be blasted - 2800 m2

Painting Scheme:-

- A. Two t/up coats of Epoxy primer 75 Mic. DFT each
B. Two t/up coats of pitch Epoxy paints 125 Mic. DFT each

- 10.2 Total area (FW tanks) - 990 m2
Area to be power tooled - 50 m2

Painting Scheme:-

- Two t/up coats of pitch Urethane paints 125 Mic. DFT each

- 10.3 Total area (Cargo tanks) - 59700 m2
Area to be blasted - 300 m2

Painting Scheme:-

- A. Two t/up coats of Epoxy primer 75 Mic. DFT each
B. Two t/up coats of Epoxy paints 125 Mic. DFT each

11. Thinner for all above paints to be arranged as required.

12. In addition to the paint requirement as above, arrange sea stock paints as under:

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|---------------------|-------------|----------------------|--------------|
| 1. Epoxy Thinner | -200 liters | 5. Epoxy Orange | -500 liters |
| 2. Epoxy Primer | -400 liters | 6. Epoxy White | -500 Liters |
| 3. Epoxy Light Buff | -200 Liters | 7. Epoxy Filler | -20kg |
| 4. Epoxy HR Black | -300 Liters | 8. HR Aluminum paint | - 140 Liters |

Nominated paint supply may please be instructed that:

- Supplier shall make arrangements to collect all unused paint;
- Supplier shall ensure that duly qualified technical supervisor of the paint supplier is in attendance during the vessel's surface preparation and painting operations; during the entire period. Supervisor preferred to be Indian in order to avoid communication gap. Adequate drying time as per requirements is to be ensured and the surface preparation / painting will be done as per the guidance of paint inspector in consultation with attending superintendent.
- Pneumatic stirrers are to be used and paint wastage / left over paints in drums if any will be on suppliers account.
- All paint shall be applied by airless spray, free of sags and runs;
- Tin free SPC anti fouling should be of best quality so as to provide protection for at least 36 months in service;
- Hull roughness measurement (AHR) before blasting and after final painting shall be arranged by supplier and certificate is given to attending superintendent. Suppliers should ensure proper drying of paints strictly as per the specified drying period.
- Supplier shall provide Attending Superintendent and Master with a copy of Technical Data Sheet for all product / paint supplied for use, at the commencement of the dry-docking period.
- Thinners to be provided as required for mixing with the paints as stated in the scheme.
- Paints supplied to be of class approved in order to comply with MARPOL Requirement.

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