



**BASIC CONDITIONS of "COMPACT Seal" BONDING REPAIR (Afloat)**  
**(FWD Seal only)**

**1. Scope of Service**

- 1) Overhauling seals and inspection.
- 2) Bonding sealing ring(s) by using KEMEL's special compound 'A + B' and the device.
- 3) Assembling seals and witness oil pressure test.

**2. Ship/Shipyard Assist – to be arranged by the order party**

**FWD Seal**

- 1) Work permission by port authorities and related organizations, if required.
- 2) Removal gratings & large pipes around the work site if the room not sufficient.
- 3) Set-up proper stage below the seal if found necessary.
- 4) Furnish power supply (220V/1KW AC) for the bonding device at the working site.
- 5) Supply of general tools, cleaning oil, rags (5 kg), lighting etc. at the work site.
- 6) Full time labor assists. (1 – 2 persons)

**3. Draining stern tube oil**

- 1) Drain out stern tube oil completely by the ship before overhauling FWD seals.
- 2) Confirm no continuous seawater drained from the stern tube before overhauling FWD seal.

**4. Working hours, 8 - 12 hours/FWD for our scope of services, without interruption.**

**5. Safety Work – to be organized by the order party**

- 1) Prohibit turning tail shaft while bonding work in progress.
- 2) Establish communication methods for notifying turning shaft in case necessary.
- 3) Establish electrical grounding for bonding device and for other electrical equipment.
- 4) Provide sufficient numbers of safety/working lights.
- 5) Maintain communication methods for emergency situation.
- 6) Instruct ship's safety rules/regulations for service engineer and labors.

**6. Others**

- 1) Arrange transports from shore to the ship and back to shore if required.
- 2) Arrange ship's cabin/room for service engineer, by request, in case of the work overnight/over 8 hours and no facility available near-by.
- 3) Provide meals/water for service engineer/labors, by request, in case of no facility available near-by.

<Concluded>