

### **Pre-Qualification Criteria**

1. Prior experience of similar work in last 3 years.
2. Prior experience of working under off-shore marine condition.

### **Scope of Work**

1. Mobilization of all essential resource to the work site at Dahej, Gujarat. This will include lifting gears like barge crane or floating crane etc. (or other economically suitable lifting arrangement), essential tool and tackles (like spanners, slings, shackles, cutters, safety gears etc.) required for carrying out the subject work. Further, may include any other resource as pre-agreed by vendor with owners.
2. Obtain all essential statutory clearances/permissions from relevant local authorities (customs, maritime board etc.) for subject work including payment of all essential dues/charges/fees etc. (Port dues , custom dues & VTMS charges)
3. Transfer new fender assembly to the off-shore work site.
4. Un-install old fender system and install new fender system (one at a time) under the guidance of owners appointed supervising engineer. Total four (4) units to be un-installed and four (4) units to be installed.
5. Un-installation and installation activity may broadly comprise following sub-activity:
  - a) Position the lifting equipment like barge crane etc. near work site (fender dolphins).
  - b) Support the weight of fender system by lifting.
  - c) Slacken fender support chains by loosening adjustable shackles and un-install them (4 chain per fender system)
  - d) Demount fender system from the dolphin face by unbolting jetty side fender flange. Transferring the old unit to suitable place (later to be transferred to PLL onshore premises).
  - e) Assemble new fender systems (fender bellow and steel frame)
  - f) Mount the fender system on the fender dolphin. Install and connecting support chains to fender system.
  - g) Adjust chain tension by tightening each chain to ensure fender drooping within acceptable limits and frontal frame vertical.
  - h) All as pre-agreed to the owner's satisfaction and as suggested by site engineer appointed by owners.
  - i) Total four (4) fender systems to be replaced, each located on separate dolphin and will require shifting man material and equipment. (within 100 m range)

Note: Vendors may propose other better plans which are economically viable and operationally feasible.

### **General Information**

- (i) Work site is an LNG import facility and all basic safety & security norms related to Oil & Gas facility and as per Terminal Policy shall be complied with.
- (ii) Tide at work site is semi-diurnal in nature & tidal range varies from 4.5 m (neaps) to 11.0 m (springs).
- (iii) Strong tidal currents are experienced in the vicinity of the work site which can reach up to 6.0 knots in spring tide.
- (iv) If barges or floating cranes used, their movements will be permitted only during slack water period.

- (v) Work site is an operating terminal with two jetties (North & South). During fender replacement work on north jetty, south jetty located in the immediate south of north jetty will remain operational.
- (vi) Fender replacement work shall not interfere with the safety of shipping operation (berthing / un-berthing of LNG ships) and LNG cargo transfer operation.
- (vii) PLL may provide assistance of support crafts (Tugs, Boat etc.) where possible.
- (viii) Vendors intending to submit proposal may visit work site at their own arrangement and cost with prior appointment and permission from Terminal.