

SOTR FOR MCT GLANDS AND ACCESSORIES

1. SCOPE.

The scope of work is to design, manufacture, testing & supply of multi-cable Transit (MCT) frames & blocks complete with all accessories as per this specifications.

2. TECHNICAL REQUIREMENT

- (a) The multi-cable transit (MCT) with accessories is to be used for water tight & gas tight penetrations on bulkhead, deck & deck-head.
- (b) The material of construction for MCT gland accessories, stay plates and other metal body shall be stainless steel.
- (c) The multi-diameter MCTs module shall be adjustable type, repeatedly re-open able & re-usable without the need of discarding or replacing any of the components in normal condition.
- (d) The multi diameter modules & center core should be made of EPDM or equivalent material which is very low smoke index. All modules shall be supplied with center core. These modules can be used as spare modules also (without passing cable). Hence the modules have to be designed for fulfilling the APT criteria. Insert block without center core will not be technically accepted.
- (e) Firm manufacturing complete item indigenously will be preferred.
- (f) The modules shall be individually adaptable to accommodate a wide range of cable types. The multi diameter modules shall be capable of accommodating large number cable sizes by following simple technique & procedure.
- (g) The MCT component with accessories used shall be suitable for protection against fire, vibration, water leakage and air pressure.
- (h) Wedge seal having single piece compression wedge with stainless steel bolts.
- (i) Any special tools/tackles required shall be included in offer as per requirement.

3. USE

To be used for water tight & gas tight penetrations on bulkhead, deck & deck-head. The MCT gland accessories – modules, lubricants, sealing wedges and stay plates are to be used for packing the glands. The combine requirement is listed below. Hence the items supplied should confirm to the followings.

- (a) Each of items when completed will become an integral part of bulkhead, deck head and will have to clear water or gas tight test (APT) up to 2 bars.
- (b) The firm has to give the undertaking/guarantee for APT carried for complete gland where the supplied material will be used. The firm has to indicate the maximum pressure bar to which this material withstands.

- (c) Since the frames are first fitting items, it requires at the initial stage of ship building. Segregated delivery shall be preferred.
- (d) Vendors who have supplied to Indian naval ships earlier shall be preferred.
- (e) Compliance list to be submitted along with offer.

4. FRAME SIZES

| S.No. | Frame Size |
|--------------|--------------------|
| 1. | MCT FRAME SIZE 4X1 |
| 2. | MCT FRAME SIZE 8x1 |

5. INSERT BLOCKS

| S.No. | Insert Blocks (Modules) |
|--------------|--|
| 1. | Insert Module with center core suitable for cable dia. ranges 5mm to 14mm, Block size 20, |
| 2. | Insert Module with center core suitable for cable dia. ranges 14mm to 23mm, Block size 30, |
| 3. | Insert Module with center core suitable for cable dia. ranges 22mm to 34mm, Block size 40, |
| 4. | Insert Module with center core suitable for cable dia. ranges 34mm to 51mm, Block size 60, |

6. ACCESSORIES

| S.No. | Description |
|--------------|---------------------------------------|
| 1. | Press wedge or wedge sealings |
| 2. | Stay Plates (Stainless Steel) |
| 3. | Lubricant Tubes (50ml) |
| 4. | Tightening Tools suitable for glands. |