

## **IFF PEDESTAL:**

1. **Nomenclature/ Part No/ GIG Number:**

- (a) Nomenclature- IFF Pedestal
- (b) Part No- 1110D/ MPR 1023F350-003
- (c) GIG- 1701669

2. **Year of Procurement/ Source:**

- (a) Year of Procurement- 2014-15
- (b) Source- M/s ELTA, Israel

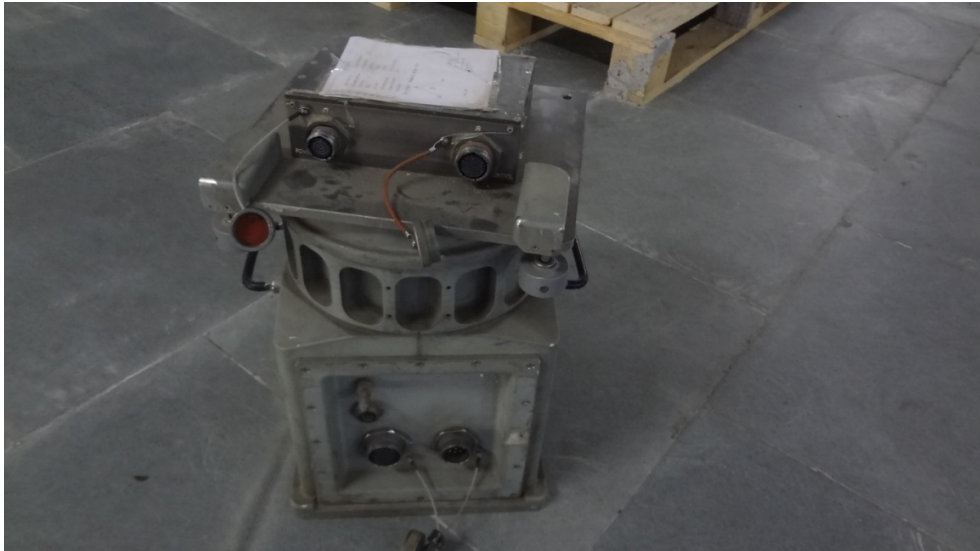
3. **Fleet/ Sub System/Wpn System:** Medium Power Radar (MPR) /IFF

4. **Technical Applicability/ Broad Purpose:** It rotates the antenna at rate of 12 rpm. The pedestal contains slip rings and a control unit, the pedestal sends azimuth information to the interrogator to azimuth to a target. The pedestal also contains a safety switch to prevent rotation during maintenance and an ETI clock.

5. **Technical Specifications** (attach as separate sheets): Attached as annexure-2

6. **Publication Details** (attach as separate sheets): MPR System, Illustrated Parts Catalog (13281) (can't be attached as confidential document)

7. **Photograph of Equipment:**



8. **Brief Description:**IFF Pedestal is a part of MPR. It rotates the antenna at the rate of 12 RPM. The pedestal contains slip-rings and a control unit, the pedestal sends

azimuth information to the interrogator to match azimuth to a target. The pedestal also contains a safety switch to prevent rotation during maintenance and an ETI clock.

9. **Classification of Equipment-** LRU/Testers/ Ground Equipment/ Role Equipment (Electrical, Electronics, Mechanical, Software based etc.): LRU
10. **Previous Repair History:** Presently dependent on foreign OEM M/s ELTA, Israel
11. **Criticality (Priority I, II or III):** Priority I
12. **Requirement:**Indigenisation
13. **Quantity Required (One time/ Annual):** 2 per year
14. **Sample Availability:** Available
15. **Scale/ Deficiency:** Scale
16. **If deficient** - How deficiency is being plugged? N/A
17. **SPOC details item/ fleet wise:** SPE (ISC) 13 BRD, AF
18. **Draft QTS** with major testing requirement (If already designed): yet to be prepared
19. **Any Other Relevant Information:** Nil

**TECHNICAL SPECIFICATION**

1. Sec Ref No : 1110D/ MPR
2. Part No. : 1023F350-003
3. GIG No of Original Item : 1701669
4. Item Nomenclature : IFF PEDESTAL
5. Major Assembly : IFF
6. Sub Assembly : (1) DAU (Drive Amplifier Unit)  
(2) Slip Ring Motor  
(3) Slip Ring Assy  
(4) Resolver
7. **Technical Specification:-**  
Input voltage: 24V DC, 24V\_RTN & GND  
Output voltage: 96V DC (from DAU) to Motor  
PS Consumption: 12A max
8. **Environment Specification:-**
  - (a) Operating Temperature, humidity and altitude limits. -40 to +70°C
  - (b) Humidity : < 90 %
9. Test Schedule for FT and Product Acceptance:
  - (a) Functional Testing : MPR Lab
  - (b) Field trial and endurance Test : MPR unit
10. Application Standards / Product Specifications:
11. **Documentation:-**
  - (a) Circuit Diagram: N/A
  - (b) Technical Description & illustrations: N/A
  - (c) Layout Diagram: N/A
  - (f) Parts Catalogue, etc: Attached

**Note:** Due to limited technical details provided by OEM , indigenised module to be developed on black box concept as per sample provided and all the technical details needs to be verified from the original sample

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