

**TECHNICAL SPECIFICATION FOR PROCUREMENT OF SPARE PARTS OF SEASPRAY 5000E SURVEILLANCE RADAR SYSTEM - BN MPA**

1. **Item's Identification.**

- a. Applicable Aircraft Model : Dornier 228-212NG
- b. Name of the System : Surveillance Radar System
- c. Model : Seaspray 5000E
- d. Reference : Supplemental Aircraft Illustrated Parts Catalog (SAIPC) for aircraft serial number 8322 & 8327 (Chapter 92-00-00).
- e. Description of the items:

Ser	Part No	Name of Item	Deno	Qty	Technical Specification
1.	AP50120102	Processor (Seaspray 5000E Radar)	No	01	a. Power Supply: 28 VDC 115 VAC, 400 Hz, 3-phase b. Power Consumption: 50W (28VDC), 400W (115VAC) c. Weight: 52.9 lbs.
2.	AP50120101	Scanner (Seaspray 5000E Radar)	No	01	a. Power Supply: 28 VDC b. Power Consumption: 575W c. Weight: 32 Kg (66.14 lbs.)
3.	AP50060306	IMU- GPS (Seaspray 5000E Radar)	No	01	a. Power Supply: 28 VDC b. Power Consumption: 25W c. Weight: 2.3 Kg (5.07 lbs.)
4.	AP50049065	PX Fan Tray (Seaspray 5000E Radar)	No	01	a. Power Supply: 115 VAC b. Power Consumption: 450 W c. Weight: 11.24 lbs.
5.	DV5214/2NU-807	DC Fan	No	01	b. Power Consumption: 18.5W (28 VDC) c. Weight: 0.56 kg (1.23 lbs.)

2. **Purpose.** The items are used in the Seaspray 5000E surveillance radar system on board BN MPA. The purpose of each item are given below:

- a. **Processor (Seaspray 5000E Radar).** The radar processor provides the control interface between the radar system and the mission system. It provides all the computing resources, in conjunction with the human machine interface (HMI), for signal processing, data processing, timing, tracking, control, built in test (BIT) and interface to the mission system.
- b. **Scanner (Seaspray 5000E Radar).** The scanner comprises two main parts, an electrically-driven rotating tilt gimbal Assembly (RTGA) and an antenna. The RTGA provides the mechanical structure to mount the scanner on the aircraft.
- c. **IMU- GPS (Seaspray 5000E Radar).** The IMU-GPS contains a high performance Inertial Measurement Unit (IMU), a GPS receiver and power supplies. The GPS and IMU data is used for motion compensation and navigation solution.
- d. **PX Fan Tray (Seaspray 5000E Radar).** The radar processor is installed on the processor mounting tray and is cooled by a supply of forced air provided by the fan unit on the processor mounting tray.
- e. **DC Fan.** The Radom DC fan is used to extract the heated air from the Radom.

3. **Manufacturer Details.**

- a. Country of Origin : UK (For Item serial no.1-4, 6), Germany (For item serial no. 5)
  - b. Manufacturer Address : LEONARDO UK LTD  
2 CREWE ROAD NORTH  
EH5 2XS EDINBURGH  
UK. (For item serial no:1-4)
- EBM-PAPST ST. GEORGEN GMBH &  
CO KG  
PO BOX 1435  
HERMANN-PAPST-STR. 1  
78112 ST. GEORGEN  
GERMANY (For item serial no: 5)

- c. Year of Manufacture : 2015 or later for repaired or serviceable item.
4. **Source of Supply.** : OEM or OEM authorized principal.
5. **Scope of Supply.**
- a. New/ Repaired/ Serviceable and original item is to be supplied fulfilling all the criteria tender specification.
- b. For repaired/ serviceable item, repairing/ servicing year has to be mentioned (Date of repair should be 2024 or later). Necessary repairing certificate has to be provided in this regard.
6. **Test, Trial and Acceptance.** Final acceptance of the item will be given after visual inspection and functional test and operational test trial in MPA Flt Line.
7. **Warranty.**
- a. A Warranty certificate is to be submitted for at least 12 months from the date of acceptance of the item after satisfactory test/ trail as applicable.
- b. If any defect/discrepancies arises within warranty period, then the respective item is to be replaced free of cost including freight within 02 months from the date of notification of the same to the supplier.
- c. Warranty period will be extended for the same amount of time the item will remain non-operational.
8. **Bidder's Identification and Qualification.**
- a. **Bidder Address: (Full address, Contact no and E-mail address).** To be mentioned.
- b. **Principal's Address (Contact no and Email address).** To be mentioned.
- c. **Principal's Qualification:** OEM/ OEM authorized or Aircraft OEM authorized principal can submit quotation. Authorized/ Authenticity Certificate by Vendor (Original copy/ color photocopy to be submitted with the offer).
9. **Certification.**
- a. **During Quotation.**
- (1) The bidder is to provide an Authenticity Certificate from OEM: (Equipment/Aircraft) or OEM (Equipment/ Aircraft) authorized principal.
- (2) If the equipment is supplied from the OEM (Equipment) Authorized principal, the bidder is to provide an Authenticity Certificate from the OEM (Equipment) for the Authorized principal with the offer quotation.
- (3) The Bidder is to provide a certificate of warranty/ Guarantee with the offer quotation.
- b. **During Delivery of Item.**
- (1) The Bidder is to provide an Authorized Release Certificate (ARC)/ Manufacture's Certificate of Conformity (C of C) with the item.
- (2) For repaired/ serviceable item, repairing/ serviceable certificate is to be provided with the item.
10. **Handling of Item.**
- a. Delivery Point : NSD Chattogram.
- b. Country/ Port of Shipment : To be mentioned.
- c. Shipment (Air/Sea) : To be mentioned.
- d. Delivery Time : 60 days from the date of purchase order provided
- e. Consignee : For shipment of the unit, consignee should be as Mentioned below.

RESTRICTED

Commanding Officer  
Naval Stores Depot  
New Mooring  
Chittagong-4218

or

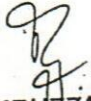
Officer In-charge  
Naval Sub Stores Depot, Dhaka  
Naval Unit, Khilkhet  
Namapara, Dhaka-1229

11. Terms of Payment.

- a. Price & Import Duties : To be mentioned and without import duties.
- b. Applicable Tax/VAT : Local Tax/VAT will be borne by supplier.
- c. Supplier will bear all cost for transporting the item to/ from overseas.
- d. After satisfactory test/trial and acceptance by BN, 100% Payment will be made in local currency as per the existing rule.

12. Bidding Conditions.

- a. Offer Validity : The offer should remain valid up to 180 days.
- b. Brochure/Catalogue (if any) : To be provided with offer.
- c. Compliance Statement : A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotation. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offer, the deviation has to be clearly mentioned.

  
M KAMRUZZAMAN  
Lt Commander BN  
Air Electrical Officer  
MPA Flight Line  
Naval Aviation