**Three Phase Inverters**

1. **Brief Description/ Technical Details.**

(a) Three 3 phase inverters with output of high power quantity for use in Aircraft. The Static Inverter is a dual output device viz. 270 V DC and 115V, 3ph, 400 Hz AC utilised for EL/M-2022A (V) 3 MPR (Maritime Patrol Radar) System. It receives a DC supply of 28 V DC as input from the Aircraft DC bus to provide the dual output. It provides built-in protections against output over voltage, output short circuit, output overload, output over frequency, output under frequency, input over Voltage, thermal overheat, input reverse polarity. Details of static inverter as follows:-

(i) Dimensions : L X B X H (30 cm, 35 cm, 24 cm)

(ii) Input : 28 V DC, 250 Amp

(iii) Output : AC : 115 V AC, 400 Hz, 3 Ph

DC 270 V DC, 10 Amp

(iv) Weight : 26 Kg (Max)

(v) Use : For Radar sub systems and 03

Cooling fans of Maritime patrol Radar

(b) The unit must match in form fit and function with dimensions and weight not exceeding that of the existing unit and must be capable to provide the requisite output utilising the 28 V DC input from aircraft.

(c) The phase inverter should have in-built protection mechanism, against output over voltage, output short circuit, output overload, output over frequency, output under frequency, input over voltage, thermal overheat, input reverse polarity.

2. **Tentative Quantity.** 25

3. **Tentative Timelines for Development/Production**. Two- three years