

Annex. to
DEBEL
letter
dt. 8/10/11

PRESSURE BREATHING OXYGEN MASK (ABEU MK-I & II)

The pressure breathing oxygen mask ABEU Mk I & II developed by DEBEL is used to administer air, air and oxygen mixture, and 100% oxygen under pressure from aircraft demand type regulators to the personnel (pilot) engaged in high altitude flying.

The pressure breathing oxygen mask assembly mainly consists of following components/sub-assemblies:-

- a) Chain toggle harness along with mounting plates and Exo-skeleton.
- b) Inspiratory valve with ice-guard.
- c) Expiratory valve pressure compensated.
- d) Microphone assembly consisting microphone, switch cord and socket.
- e) Corrugated Rubber tubing.
- f) Inlet warning connector assembly.
- g) Inlet tube.
- h) Clip fastener.

The mask is intended to be used in the fighter/trainer aircrafts of British origin used by IAF (except Jaguar aircraft) and has to fit a wide variety of face contours and at the same time retain the capability of sealing against the outward leakage of high respiratory pressures, for which an efficient form of harness has been designed. The harness is readily adjustable and capable of being quickly tightened for sealing against leakage at all levels of pressure obtained during pressure breathing. The mask has also been designed to provide the supply of emergency oxygen to the aircrew from the emergency oxygen cylinder following ejection.

This oxygen mask is designed to be used in conjunction with a type 'G' Helmet. The mounting plates of the oxygen mask are fitted on to the 'G' type helmet.

The mask is user tried and certified by RCMA (A) for its airworthiness and is in use in IAF since 1983.

O₂ - Mask .

