HYDRAULIC BOTTLE JACK FOR RAFALE AIRCRAFT.

1. INTRODUCTION

The Hydraulic Bottle Jack is a hydraulic lifting device shaped like a bottle, which utilizes a cylindrical body with a hydraulic ram extending from the neck. The jack's piston is vertically aligned and directly supports a bearing pad that contacts the object being lifted. The system operates on a single-action piston, capable of lifting loads up to a capacity of 12.25 tons.

2. BOTTLE JACK TECHNICAL SPECIFICATION

Nomenclature	Hydraulic Bottle Jack
Model No.	LIAJ-12 (This model will be delivered to IAF)
Part Sl. No.	LI-BJ-02/24 (This Part No. will be delivered to IAF)
Capacity	12.25 Tons
Max. Lift Height	475mm
Pressure	180 ± 4 Bar
Tank Capacity	5 liters
Hydraulic Oil	H515 and its equivalent
Weight (Dry)	38 Kg
Force required for operation	Max. 20 Kg

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1. INTRODUCTION

The **Hydraulic Bottle Jack** is a robust lifting device designed to support heavy loads. Shaped like a bottle, it features a cylindrical body with a hydraulic ram extending from the neck, allowing for precise vertical lifting. This jack uses a single-action piston system that can lift up to 12.25 tons, making it suitable for various lifting tasks. The piston aligns directly with a bearing pad, which ensures effective contact with the object being lifted. With a maximum lift height of 475mm, the device operates at a pressure of 180 ± 4 Bar and has a tank capacity of 5 liters. It requires a maximum force of 20 kg for operation, making it easy to use while maintaining high lifting capacity. Ideal for industrial applications, it weighs 38 kg (dry) and uses hydraulic oil H515 or its equivalent.