



1. Purpose

To procure one Truck Mounted boom lift with a working height of minimum 26 meters including articulated Jib of 3 meters for precise moment for maintenance, inspection, and operational support activities inside the AIESL 320 Hangar. The equipment is intended to facilitate access to aircraft surfaces, hangar structures, and overhead systems.

2. Equipment Description

A Truck Mounted articulated boom lift (OEM standard), meeting the following baseline specifications:

A. Key Specifications

- Working Height: Min 26 meter
- Platform Height: Min 24 meter
- Horizontal Outreach: Min 12 meter
- Articulated Jib of 3 meter to be provided
- Operating Pressure - Low Pressure 25 Bar for smoother operation when operated from Basket
- Controls: Lever operation in Basket as well as Turret also.
- Features: Engine start/stop from basket as well as at Base control panel, hour counter
- Basket Capacity: Min 250 kg (Standard 2-person + 1 Tool Box)
- Rotation: 360° Continuous rotation in Either direction without any hose twisting in turret
- Truck Chassis: Min 7 Ton GVW (CNG) with latest Emission norms (BS6 - Phase II) having 3900 mm Wheelbase
- Suitable power take off (PTO) and Hydraulic pump to be provided

B. Body Frame/Structure

- The steel/Iron structure and the booms are made of high strength steel having yield stress of 700 N/mm² to grant great stability to the whole platform, boom maximum rigidity and maximum safety while working.
- Steel/Iron Body with checkered plate to be provided
- Support for Boom & Basket resting point to be provided
- The subframe should be couple to the platform and bolted with truck chassis
- Double purpose turret for boom support and rotation. One hydraulic engine coupled with one reducer allows 360° continuous rotation on fifth wheel. One rotating joint, assembled inside the turret, allows movements without hose twisting.
- Articulated boom (JIB) allows to clear obstacles in the working area. It is positioned at the end of the telescopic boom and gives the possibility even to work at a height in unreachable working position.
- Ergonomic ladders mounted on the subframe to easily access the platform floor and the basket.

C. Outriggers:

- NO.4 OUTRIGGERS H+H TYPE with Individual controls
- Heavy duty double acting hydraulic cylinders to be provided with lock valve
- 100% hydraulic movement controls independent and separate to perfectly level the machine even on uneven ground

D. Basket:

- Basket should be mounted on a Jib cradle with non-slip flooring and drain holes for water drainage. Tool box, Safety hooks & feet protective device of 15 cm should be provided in the basket
- Basket access bar with closing system by gravity
- Basket hydraulic rotation: 90°+ 90
- 100% hydraulic system that allows 2 simultaneous movements
- Constant and gradual automatic levelling of the basket with independent hydraulic circuit



- Engine start & stop from the basket
- Warning light to centre the boom in rest position
- Electric power socket 230 V
- Load Indicator/SLI to be provided

E. Safety and Control Features

- Interlock outriggers-boom: Outriggers block when the boom is not in rest position + Boom block when outriggers are not completely stabilized
- Boom and outriggers block when the PTO in the cab is not engaged.
- Load Holding Valve to be provided in hydraulic cylinder
- Emergency hand pump allows every movement in case the main pump is damaged which allows the return of the boom and outriggers in rest position under truck flat battery condition.
- Warning light installed in the truck cab and indicating that the outriggers are not completely down.
- Boom-cab anti-collision system + Basket-boom anti-collision system (buzzer and stop)
- Safety device to prevent the starter connection if the engine is ON.
- Emergency stop switches at Basket and Turret controls.
- Safety Kit should be provided (Standard Tool Box/Harness/Helmet) for 1 Person

3. Compliance and Certifications

- The equipment must comply with Aerial work platform standard as per industry standard
- OEM certification of load capacity, safe working loads, and structural integrity

4. Documentation Requirements

The supplier shall provide the following at delivery:

- OEM warranty documents
- Invoice and Test Certificates
- Operation and maintenance manuals (soft and hard copies)
- Internal test report
- Bidder to provide all documents necessary for RTO registration and for insurance.

5. Training Requirements

Supplier must provide onsite Training and commissioning at:

- On-site training for AIESL technicians/operators for 2 days
- Bidder to conduct commissioning and handover the equipment to AIESL.

S/d

DGM-Engineering
A320, Base maintenance
IGI Airport, Terminal -2
New Delhi