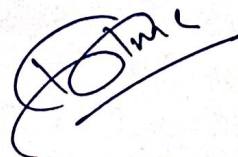


Technical Specifications and TDs of Air Lifting Bag with Air cylinders

S/ No	Specification	Requirement	Trial directives
1.	General	Airlifting bags are pneumatics appliances that Can be used for a variety of lifting purposes in rescue works in the wake of vehicle and railroad accidents, collapsed shelters or road clearance works amongst other situations. They can be slid into spaces below loads where normal jacks cannot be positioned. They will be easy in maintenance effort, durable and lightweight. Each bag to have built in moulded handle for easy carrying by one person.	
2.	Scope of supply	Minimum of 08 Air lifting Bags, each with a distinct lifting capacity, evenly distributed across a range from low Tonnage (e.g. 1 ton) to high tonnage, where the highest capacity bag must have a lifting capacity of 95 Tons or more. The set shall include bags specifically suited for low- capacity loads (e.g. 1-30 tons), middle-capacity (e.g., 30-60 tons), and high- capacity loads (e.g., 60-95 tons or more), enabling effective handling of diverse lifting scenarios.	B.O.O. to physically check that the bags are evenly distributed across low (e.g., 1-30 tons), middle (e.g., 30-60 tons), and high (e.g., 60-95 tons or more) ranges, with the highest-capacity bag lifting atleast 95 tons and verify the parameter through OEM certification.
3.		Each set will be provided with the following accessories to operate up to eight or more bags at a time:- <ul style="list-style-type: none"> • 2 inflation hoses 5 m long in two different colours (one each) with push lock couplers. • 2 inflation hoses 10 m long in two different colours (one each) with push lock couplers. • 8 shut-off hoses with safety valves and 0.5m hose. • 4 Single control units, 08 bar or more • 2 double dead man controllers with pressure gauges & safety valves, for filling & emptying 2 bags. • 4 pressure reducers for air cylinders 200/300 bars • 4 connection pieces for 2 air cylinders. • 6 compressed air cylinders 300 bar, 5 to 6 litres. • 01 packet of O-ring rubber seal (which sits in a groove and gets compressed to create airtight seal in regulator with flowmeter) along with each set of Air Lifting bag. • Bidders to supply 01 Testing Device for 03 set of Air Lifting bag. 	BOO to physically check and verify the parameter through OEM Certification.



4.	Specifications	The bag should be of multiple layers of Kevlar Aramid construction.	B.O.O. to check and verify the parameter through lab test report from Govt./ International/NABL- accredited lab (Lab Test Report about the construction material is required).
5.		The thickness of the bags should not exceed 30 mm. The set of bags should provide lifting options from a minimum of 7 cm for the smallest size to more than 50 cm for the highest size.	BOO to physically check and verify the parameter.
6.		They should have anti-slip surfaces to provide good grip and high traction between the bag and the surface of the object to be lifted as well as when stacked on top of each other. Markings for centring should be provided along with fluorescent labels at corners for recognition in the night. Each bag should have its own storage bag	BOO to check and verify through OEM Certification.
7.		Operating pressure minimum 08 bars or above. Bursting pressure should not be lower than 32 bars or above. The testing pressure to be flowed will be 1.5 times the operating pressure	BOO to check and verify the parameter through lab test report from Govt. /NABL accredited/ International labs.
8.		Operating temperature -20 to 60 degrees centigrade.	BOO to check and verify the parameter through lab test report from Govt./ NABL accredited labs.
9.		<u>Additional:-</u> Certification complied with EN 13731	

