

DEMAND NOTIFICATION
INVITATION FOR EXPRESSION OF INTEREST FOR
WEAPON LOADING TROLLEY (WLT)

BrahMos Aerospace, a joint venture between India's Defence Research and Development Organization (DRDO) and Russia's NPO Mashinostroyeniya, is a leading aerospace and defence corporation specializing in the design, development, and production of supersonic cruise missile systems.

BAPL invites Expressions of Interest (EOI) from prospective manufacturing industries for development and supply of Weapon Loading Trolleys.

Name of Device: Weapon Loading Trolley (WLT)

Scope of work:

To develop and manufacture the Weapon Loading Trolley and qualify the same as per technical requirement which will be shared with shortlisted manufacturers.

Brief Description:

I. INTRODUCTION

Weapon Loading Trolley (WLT) is intended for

- i) Transporting / loading / unloading cylindrical loads.
- ii) Transporting / loading / unloading rectangular loads.

II. PRELIMINARY TECHNICAL REQUIREMENTS

WLT is to be developed to meet the technical specifications given below.

S. No.	Requirement	Specification
1	Design	a) Should be stable under loaded condition. b) Should have scissor mechanism to increase / decrease height of platform on trolley. c) Wheels to move the trolley forward / backward. d) Loads will rest on pre-defined positions on trolley. e) Provision of footrests at 4 positions.
2	Operating conditions and environmental & Hazard Protection	a) Operating Temperature Range: -40 °C to + 70°C. b) Storage Temperature Range: -40 °C to +70°C. c) Relative Humidity: 95 % RH d) Altitude – up to 4000 MSL. e) Corrosion resistance for unpainted regions of trolley except for moving surface of trolley wheels. f) Environmental & Hazard protection for electrical components: <ul style="list-style-type: none"> i. Flame proof motor Protection. ii. Flame proof cables and connections. iii. IP 67 – Dust and water proof protection class. iv. Over voltage / short circuit protection.
3	Wheels	a) Solid rubber/ polyurethane Teflon b) Number of wheels - 4
4	Mode of operation	a) The system must have provision to lift the loads in both Electric mode and manual mode of operation.



		i. Electric Mode: Through a control panel using push buttons and joysticks. ii. Manual Mode: Provision to operate trolley manually using hydraulic pump. b) System must have provision to move loads in X, Y and Z direction and in roll, pitch and yaw. c) Steering mechanism to be provided to steer the trolley forward and backward.
5	Latching and Locking	a) Latching / lifting points for loading and unloading the trolley on trailer and latching during transportation. b) Provision for arresting the lateral and longitudinal motion of loads using the available hard points / latching points.
6	Outrigger	a) 4 outriggers to be provided on suitable locations.
7	Power connection	a) Power will be derived from control panel mounted on trolley using a 4 Pin detachable power connector. b) Power Input: 28VDC or 3 Φ , 115 V, 400 Hz.
8	Motor	a) HP of motor to be as per requirements. 3 ϕ , 115V is preferred. b) Motor to be housed in flame-Proof enclosure.
9	Brakes/ Emergency	a) The trolley shall have provision of brakes / stopper to arrest movement of trolley forward / backward. b) Provision to stop lifting of trolley in case of emergency / fault detection. c) Locking provision to arrest the position of lifted platform at desired heights.
10	Paint and surface treatment	a) Painting shall be carried out after surface treatment. b) 2 coats of primer and 2 coats of paint to be applied. c) Paint shall be suitable for shore environment. d) Unpainted regions to be ZN-Ni plated.
11	Testing / Inspection	a) Stage inspection b) Fitment tests c) Static and dynamic load tests d) Acceptance tests and Qualification tests
12	Deliverables	a) WLT and its accessories as per BOM. b) Latching belts 3T capacity – 4 nos. c) Tools and spares. d) Drawings, models and documents as per Para III.

III. DRAWINGS / DOCUMENTS TO BE SUBMITTED

Following drawings, models and documents are to be generated by the supplier and shared with BAPL for review and approval.

S. No.	Drawing / Document
1	Manufacturing drawings (AutoCAD format) and Bill of Materials.
2	Detailed 3D model, Design report and FEA report.
3	User manual with Illustrated Spare Part List (ISPL).
4	Maintenance Manual
5	Manufacturer Recommended List of Spares (MRLS).



6	Components Catalogue for bought out items.
7	Draft Quality Assurance Plan (QAP) and Acceptance Test Plan (ATP) will be prepared and submitted by BAPL. Based on draft QAP and ATP, final QAP and ATP will be prepared by vendor. QAP to cover raw material checks, heat treatments checks, welding checks, surface treatment checks, painting checks, visual and dimensional checks, functionality checks, Load tests, Pre-delivery inspection.
8	Test reports as per QAP (Raw material test reports, WPS/WPQ/PQR, stage wise inspection reports, DP reports, certificates of conformance, dimensional inspection reports, Paint reports, Torque application report, Acceptance test / Qualification test report).
9	CoC and data sheet to be submitted against make and model for all electrical items. CoC of FLP panels and Motors to be submitted as part of documents.
10	Detailed list of COTS items, Imported items and Locally bought / manufactured items for full assembly is to be provided.

Eligibility Criteria and EOI submission:

The eligibility criteria and instruction for submission of EOI are available at our website www.brahmos.com. Only eligible vendors meeting the requirements specified in EOI document "BMR/WDC/EOI/WLT/01" shall be considered.

Eligible manufacturing industries may furnish their Expression of Interest in the prescribed format (Annexure A of EOI document BMR/WDC/EOI/WLT/01) in Sealed Envelope quoting our Demand Notification No. BMR/WDC/DN/WLT/01 with all essential information and supporting documents. The EOI shall reach on or before 30/06/2025 [16:00 Hrs.] to the following address:

BrahMos Aerospace Private Limited
16, Cariappa Marg, Kirby Place
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Tel: +91-11 -42285217

Note: BAPL reserves the right to accept or reject any or all responses. Mere compliance to the EOI terms does not guarantee further consideration for qualification in the procurement process.



