

SCOPE OF WORK FOR SUPPLY OF TECHNOLOGICAL TROLLEY CK350A-4M
FOR CYLINDRICAL LOADS

1. Refer:

- a. **Technical specification document:** BMH/NGP/TT/02/R0 dated 25/05/2026
(Annexure- II).

2. IPR

- a. The IPR of the all the fabricated deliverables, their designs and 3D models (to be developed by vendor), manufacturing drawings and documents will solely rest with M/s BAPL.
- b. All the data shared with the vendor is confidential in nature and must be protected as per the government norms.
- c. Any sharing of data to any external member without prior written permission of M/s BAPL is not permitted.

3. Scope of work:

The scope of work for Trolley CK350A-4M includes:

- a. Design of Technological Trolley, preparation of 3D model, FEM analysis (if any).
- b. Manufacturing and supply of 2 nos. of Trolley hardware as per Technical Specifications document.
- c. Conduct of Acceptance test on 2 nos. as per Technical Specifications document.
- d. Carrying out functionality Demonstrations to BAPL.
- e. Preparation and supply of models, drawings and documents as per Technical Specifications document.
- f. Detailed list of deliverables is given in Para 4. All the items need to be delivered as per the list of deliverables given below.

4. List of deliverables

- a. The vendor has to supply the following as part of the order:

S. No.	Item Description	Quantity
1	Technological Trolley as per attached Technical Specifications document	02 nos.
2	Drawings, models and documents as per Technical Specifications document. Drawings and documents to	01 set

	be submitted in soft copy and hard copy. QAP to be submitted to BAPL for review and approval.	
3	Technical, operational and maintenance manual – soft copy and hard copy	02 sets
4	Required Tools and spares for maintenance	02 sets – 1 set for each trolley
5	Manufacturing of Dummy loads for load testing – not to be delivered	01 set

Table 1: List of deliverables

5. Technical Requirements

a. Design

- (i) Design should be made to meet the technical specifications as per Technical Specifications document.
- (ii) The design to be approved by M/s BAPL prior to initiating manufacturing of trolleys. Design document consisting of design details, BOM, design calculations and FEM analysis reports to be submitted for approval. Native 3D models and FEA models to be submitted for approval.

b. Manufacturing drawing

- (i) Manufacturing drawings of final design need to be prepared and submitted for approval by M/s BAPL.
- (ii) Soft copy of all manufacturing drawings in AutoCAD format to be submitted to M/s BAPL.
- (iii) Manufacturing process sheets to be submitted for approval by M/s BAPL.

c. Manufacturing

- (i) Basic parameters and dimensions: The dimensions and parameters of the assembly/sub-assembly/parts should be as per the technical drawings and any deviation from the drawings is not recommended. However, design / material amendments, if required, shall be with prior approval and clearance of M/s BAPL.
* M/s BAPL will be the inspection agency for the deliverables.
- (ii) Inspection may be carried out by M/s BAPL / BAPL nominated agency at various stages of manufacturing process.

d. Painting

- (i) Painting to be as per technical specifications provided. Painting scheme to be prepared by vendor and submitted for approval by M/s BAPL.
- (ii) Inspection of the painting will be carried out as per technical specifications document.

e. Quality and AT

- (i) Acceptance tests (AT) will be carried out on the both Trolleys.
- (ii) The infrastructure required for all the tests is in the scope of vendor.

f. Reviews and Inspections

- (i) Project reviews may be conducted on regular basis to assess the progress of activities.
- (ii) All the test fixtures, tools, gauges, equipment, instrument etc., required for undertaking inspection and testing shall have valid calibration certificates.

6. Demonstration and PDI

- a. The field trials and demonstration of functionality of the Technological Trolley to BAPL at their location will be the responsibility of the vendor.
- b. After completion of acceptance tests and demonstrations to BAPL, Pre-Delivery Inspection (PDI) will be carried out jointly by M/s BAPL and supplier.
- c. After successful completion of PDI, items will be cleared for dispatch to delivery location.
- d. Above activities will be conducted separately for both the trolleys.

7. Documentation

- a. The documents to be submitted as per the list of deliverables at Para 4.
- b. Additionally, a consolidated document consisting of following details shall be submitted to M/s BAPL during final inspection and PDI.

S. No.	Description
1	Material data sheet
2	Material test certificate
3	Weld inspection reports with photos
4	Final dimensional report
5	Weight and torque tightening reports
6	Certificates of conformance of components

7	Packing list
8	As-built drawings

Table 2: List of documents

8. Marking and Packing

- a. Marking is to be carried out at locations as specified in drawings. The details of the same will be shared during finalisation of manufacturing drawings.
- b. The deliverables shall be packed as per Defence standards with highest quality.
- c. Items to be properly latched along suitable supports for storage and transportation.

9. Delivery schedule and location

- a. 1st trolley to be delivered within 6th months from the date of issue of purchase order or finalization of design drawings or approval of QAP which is later.
- b. 2nd trolley to be delivered within 8th months from the date of issue of purchase order or finalization of design drawings or approval of QAP which is later.
- c. All other deliverables (as per Table 1) to be made ready along with the respective trolleys and to be delivered along with the trolleys to the delivery location.
- d. The items to be delivered at M/s BAPL, Nagpur post completion of PDI.
- e. The vendor is responsible for delivery and installation of the items at end user location.
- f. Vendor shall replace the items damaged during transportation without any cost to M/s BAPL.
- g. The date of delivery will be considered as the date on which items are accepted at M/s BAPL, Nagpur post successful completion of JRI.

10. JRI

- a. Post the delivery of the items at M/s BAPL, Nagpur, Joint Receipt Inspection (JRI) of the items will be jointly carried out by reps of M/s BAPL and supplier.
- b. Post successful completion of JRI, Certificate of completion will be jointly signed by the vendor and M/s BAPL.

11. Warranty

- a. The supplier should provide warranty for 24 months from the date of delivery of items. If during the aforesaid period of 24 months, the said items be discovered not to conform to description / quality / satisfactory performance or have deteriorated, vendor shall rectify the issues with the items within 21 days of reporting.
- b. Certificate of conformance and Warranty certificate shall be issued by the vendor at the time of JRI.

12. Notes

- a. The detailed drawing of Trolley including frame, resting supports, out trigger, Wheel axle, Towing bar, steering, suspension etc. will be shared to interested bidders through BAPL, Hyd on signing of **NON-DISCLOSURE AGREEMENT**.
- b. For any technical clarifications, please contact Mr. Palash Sahu (SM) via email at palashsahu@brahmos.com.

