

Full Trailer of 70t Tank Transporter for MBT Arjun Mk-1A



Fig : 70t Full Trailer

(a) Brief Description:

Full Trailer of 70t Tank Transporter is specially designed for transportation of MBT Arjun Mk -1A by road. It is quite useful for transportation of MBTs or other equivalent payloads upto 70t capacity quickly over large distances by road. It has a modular hydraulic suspension with steerable axles for negotiation of sharp turns, height adjustable platform and hydraulically operated ramps for easy loading and unloading of payload. It has specially designed stoppers and anchors that will ensure the payload securing on the platform during transit.

(b) Specifications of key performance and size parameters

- No. of axle lines : 5 nos.
- Axle line capacity : 20t per each axle line
- Ramps : Hydraulically operated
- GVW : 28,000 kg
- Payload and Capacity : Up to 70t
- Max. speed on metal road :50 kmph (with payload)

Salient Features

1.	Dimensions		
	Length	:	12500 mm
	Width	:	3800 mm
	Height	:	1420 +/- 272 mm (Top of Platform)
2.	Tow bar length	:	3000 mm
3.	Payload Capacity	:	70 t

4.	Total Un-laden Weight of Trailer	:	28 t
5.	Axle	:	Stub Axle, with Integrated Hydraulic Suspension Cylinder
6.	No. of Axles	:	10 (five axle lines with two stub axle per line)
7.	Axle Capacity	:	12 t/stub axle
8.	No. of Wheels per Stub Axle	:	04 (Per axle line 08 wheels)
9.	Steering System	:	Mechanical Steering System with remote operated Hydraulic Steering System for additional steering to negotiate sharp turns
10.	Steerable Axles line	:	04 nos. (Third axle line non-steerable)
11.	Turning Circle Diameter	:	26 m at Road Width of 6.75 m
12.	Suspension System	:	Modular Hydraulic Suspension
13.	Tyre type	:	235/75 R17.5143/141J
14.	Max Load per tyre	:	2.5 t
15.	Max Load per Axle line	:	20 t
16.	No. of Spare Tyres	:	04 nos. (Stowed under the platform with provision of handling mechanism)
17.	Brake System	:	Twin Line Air Pressure Braking System
18.	Parking Brake	:	Provided at three Axle lines
19.	Loading Ramp	:	Hydraulically actuated
20.	Dimensions of Ramp Length Width	:	3345 mm 800 mm
21.	Ramp Angle	:	14°
22.	Outriggers	:	Two hydraulically operated outriggers at the rear
23.	Electrical System	:	24V (Supply from tractor)
24.	Hydraulic System Pump Type Pump Reservoir Capacity Oil	:	Gear Pump 36.5 lpm @2100RPM, PGM 610, 18 cc/rev series 110 liters VGA 68
25.	APU	:	Make : Hatz Capacity : 14.7 kW @3000 rpm Fuel type : Diesel

Contact Details

Interested Indian companies/industries are requested to apply against this EoI to following address:-

To,

Director

Vehicles Research & Development Organisation (VRDE)

DRDO, Govt. of India, Ministry of Defence

Vahan Nagar PO

Ahmednagar-414006 (Maharashtra)

Email-director.vrde@gov.in

Copy to:- (without attachment)

The Director

Directorate of Industry Interface & Technology Management (DIITM)

Room No. 447, DRDO Bhawan, Rajaji Marg, New Delhi-110 011

Email-diitm.hqr@gov.in

List of Support documents to be attached with EoI

- (a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
- (b) Certificates of registration as a manufacturing unit, if any.
- (c) Audited Balance Sheet for the preceding three years.
- (d) Income Tax returns for the preceding three year period
- (e) Details of shareholding/ownership pattern especially foreign partners/ shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- (f) Annual budget for R&D during last three years.

- (g) Numbers and details of IPR or patents, etc., held by the company.
- (h) Number of technically or professionally qualified personnel.
- (i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- (j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- (k) List of Testing and Support equipment's
- (l) ISO/ ISI certification or any other certification
- (m) Relevant clearances form the authorities/ ministries (if any)
- (n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- (o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- (p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc.
- (q) Under taking form company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- (r) Details of the industrials license for defence manufacturing be provided by the industry seeking ToTs.