

HOSTING OF AoN DETAILS

AoN DATE : **16 DEC 2022**

ITEM DESCRIPTION (weapon/equipment/platform) : **TACTICAL LOAD HAULER**

QUANTITY : **300.**

CATEGORIZATION : **'BUY (INDIAN)' THROUGH FTP.**

BROAD PARAMETERS QRs OF THE ITEM : **AS PER OR ATTACHED.**

SPECIAL INSTRUCTIONS ON DEMO, IF ANY : **NO COST NO COMMITMENT (NCNC)
DEMO WILL BE CONDUCTED AT
DESIGNATED LOCATIONS.**

ANY OTHER SPECIFIC INSTRUCTIONS : **NA**

OPERATIONAL REQUIREMENTS FOR TACTICAL LOAD HAULER (TLH)

1. **Environmental Conditions.**

- (a) **General.** Tactical Load Hauler should be capable of operating in desert/ mountains/ snow/ dirt tracks/ uneven surfaces.
- (b) **Operating Temperature.** Be able to operate in temperature range between minus 20 degree Celsius to plus 45 degree Celsius.
- (c) **Ruggedness.** Should be rugged to operate in deserts/ mountains/snow areas.

2. **Minimum Load Carrying Capability.**

- (a) **Plains.** 80kg.
- (b) **High Altitude Area (Above 9,000 feet).** 60 kg.

3. **Operation.** Be powered by a battery/hybrid engine.

4. **Portability.** Should allow dismantling for ease of carriage and handling.

5. **Dimensions.**

- (a) **Overall Weight (without Battery).** Not more than 40 kg + 5%.
- (b) **Ground Clearance.** Should have minimum ground clearance of 250 mm.

6. **Gradient Negotiation.**

- (a) Should have gradient assist mode for Descent/Downslope move of at least 30 degree inclination.
- (b) Be able to traverse on an upslope of at least 30 degree gradient with specified minimum load capacity (Refer Para 2 above).

7. **Movement.** Speed of the equipment should be controllable. Equipment should have a suitable braking system. Turning radius of the equipment with the specified minimum load should be less than 1.5m.

8. **Suspension.** The equipment should have four wheels. All wheels should have suspension system.

9. **Tyres.**

- (a) The tyres should have minimum life of threeyears/2000 km, whichever is earlier, in dirt track conditions.
- (b) The tyres should allow fitment of additional accessories for better traction for move in snow/slush conditions.

10. **Operating Range**. Should provide minimum performance range of 20 km distance or endurance of eight hours with 80 kg load in plains and minimum 15 km range or endurance of six hours with 60 kg load in high altitude area.
11. **Battery**.
- (a) Should be rechargeable.
 - (b) Equipment should have an indicator for battery charge status.
 - (c) Battery load should not impact on overall load carrying capacity.
12. **Colour**. Black/ Grey/ Olive Green.
13. **Service Life**. Service life of the equipment alongwith the battery should be minimum five years.
14. **Ergonomics**.
- (a) The arrangement of attaching the equipment with body of soldier should have comfortable fit, be adjustable and easily detachable.
 - (b) Should have a quick release system for detaching from the body of soldier.
 - (d) Should have cargo net/ straps for securing the load during move.
 - (e) Should allow control of the equipment remotely for speed and braking.

ENHANCED PERFORMANCE PARAMETERS (EPP)

15. **Load Carrying Capacity**.

<u>S No</u>	<u>Weight</u>	<u>Credit Score</u>
(a)	More than 80 kg and upto 100 kg	1%
(b)	More than 100 kg and upto 120 kg	2%
(c)	120 kg to 140 kg	3%

16. In case all four wheels of the equipment are powered (4 X 4 version), credit score of 2% to be given.