


**INVITATION OF VENDOR COMMENTS ON REVISED DRAFT QR/ TDs**  
**OF MULTI GRENADE LAUNCHER (MGL) 40MM**

1. It is intimated that firms/ vendors' comments are invited on the revised draft QR/ TDs of Multi Grenade Launcher (MGL) 40mm. All firms are requested to offer their comments on e-mail address scord@nsg.gov.in or gcproc@nsg.gov.in as per under mentioned format.

QRs	TDs	Comments by the firm
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2. You are requested to offer comments within 15 days from the date of uploading on the website. The QR/ TDs of above mentioned equipment/ weapon are being considered by sub group committee meeting for finalization.

Dated : 18 Nov 2022

  
(Ankit Chaudhary)  
Maj  
SC(Ord)

**DRAFT QRs AND TDs of MULTI GRENADE LAUNCHER (MGL) 40mm: 07 Nov 22**

S/N	Parameter	Specification	Trial Directive
1	Caliber	(a) 40 x 46mm(for low velocity amn).  (b) 40 x 51 mm(for medium velocity amn) (User to specify the caliber as per requirement at the time of tender)	OEM to provide certificate confirming the Caliber of the weapon. Certificate to be checked by the BOO.
2	No. of chambers	Not less than six	To be physically checked by the BOO.
3	Effective Range	(a) MGL should achieve a range not less than 375 meters with low velocity amn.  (b) MGL should achieve a range not less than 800 meters with medium velocity amn.	(a) To calculate the effective range, 10 Grenades to be fired and average of achieved range should be calculated. Incase of Blind/misfire and unfair(not achieving specified muzzle velocity) additional grenades to be provided  (b) Effective range test to be conducted alongwith muzzle velocity test.
4.	Type of Fire	Single shot and semi-automatic fire	To be physically checked by BOO.
5.	Rate of fire	Not less than 20 grenades per minute	To be physically checked by BOO by firing 6 grenades from fully loaded MGL and all 6 grenades should be fired in 18 seconds.
6	Weight without ammunition	Weight without ammunition and sight	To be physically checked by the BOO.
7	Length (stock closed)	Maximum 700mm	To be physically checked by the BOO.
8	Length (stock open)	Maximum 780mm	To be physically checked by the BOO.
9	Muzzle velocity	(a) For Low velocity amn-76 $\pm$ 3 m/s  (b) For Medium velocity amn-124 $\pm$ 3 m/s	(a) OEM to provide certificate in this regard.  (b) BOO to physically check the same by firing 10 grenades and average be calculated and should be within the following range:- (a) Low velocity amn-76 $\pm$ 3 m/s (b) Medium velocity amn-124 $\pm$ 3 m/s  (c) Measuring eqpt (Doppler radar) with mount etc to be provided by the firm during field trial. (d) This test will be conducted with the effective range test.

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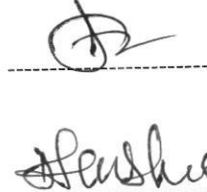
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S/N	Parameter	Specification	Trial Directive
10	Safety	Both Applied and mechanical safety should be available	To be physically checked by the BOO. Firm to provide OEM certificate for same.
11	Sighting system	Collimated Reflex sighting system with night vision compatibility	To be physically checked by the BOO.
12	Operating temperature	-20( $\pm$ 3°C) to +55( $\pm$ 3°C) degree Celsius and RH upto 90%	OEM to provide a certificate to the effect from DGQA/ National / international accredited laboratory.
13	Robustness	(a) To comply with MIL STD 810 G  (b) MGL should have anti corrosive coating.	(a) OEM to provide a certificate to the effect from a national / international accredited laboratory. However the following tests will be carried out by the BOO as per the guidelines of TOP 3-02-035 :-  (i) Drop Test (ii) Mud Test (iii) Water Immersion Test  (b) OEM to provide certificate for the same.
14	Gauging	Weapon to be checked for gauging on fwg parameters: (a) GO (b) NO GO (c) FIRING PIN PROTRUSION (d) HEAD SPACE (e) FLASH GAP GAUGE	OEM to provide gauges during field trials and to be physically checked by BOO.
15	Compatibility with ammunition	(a) Standard Low Velocity 40 x 46mm lethal ammunition  (b) Medium velocity 40x51mm lethal ammunition. (User to specify at tender stage)	OEM to provide a certificate to the effect from a national / international accredited laboratory.
16	Life of barrel	Not less than 5000 rounds.	OEM to provide a certificate to the effect from a national / international accredited laboratory.

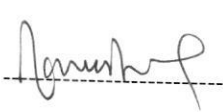



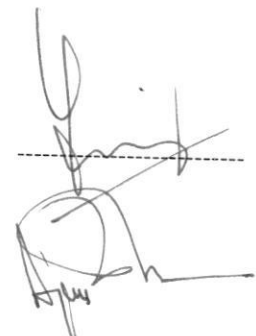








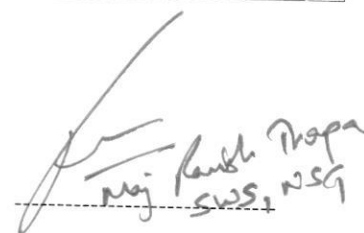
S/N	Parameter	Specification	Trial Directive
17	Maintenance and Operability	<p>i) Field stripping and assembling of the system to be done without use of any special tool.</p> <p>ii) List of gauges to be provided by OEM at the time of tender (pre bid meeting). Thereafter user may specify the requirement of gauges with quantity.</p> <p>iii) List of all spare parts to be provided by OEM.</p>	<p>(a) OEM to provide a certificate to the effect from a national / international accredited laboratory.</p> <p>(b) Stripping and assembling to be physically checked by BOO.</p>
18	Training	<p>(a) Firm to provide one week of user level trg at the locations specified by the user.</p> <p>(b) Firm to provide one week of repair level trg at the locations specified by the user.</p>	Firm to provide undertaking for the same.
19	Misc	<p>(a) Operator manual ,trg manual , illustrated spare part list with diagram ,tech brochure to be provided by firm.</p> <p>(b) Suitable Sling ,Hard carrying case , Stripping tools , muzzle cover , Suitable cleaning kit to be provided.</p>	Firm to provide undertaking for the same. Hard carrying case should be tested by a drop test . In this test , carrying case to be dropped from a height of 2 metre on a flat and hard surface , No cracks /deformation is acceptable.

  
  
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