

**मुख्यालय राष्ट्रीय सुरक्षा गारद
(संभरण शाखा : ऑर्डनेंस अनुभाग)**

**मल्टी ग्रेनेड लन्चर (एम0जी0एल0) 40 एम0एम0 के परिशोधित गुणात्मक आवश्यकता (क्यूआर)
और परीक्षण निर्देशों (टीडी) के मसौदे को गृह मंत्रालय की वेबसाइट पर डालना**

1. कृपया गृह मंत्रालय, पीएम डिविजन के पत्र सं. IV-24011/12/2011-Prov.I दिनांक 05 अक्टूबर 2016, पत्र सं. IV-24011/12/2011-Prov.I दिनांक 13 जून, 2012 और पत्र सं. 11012/02/2009-Fin-I/Prov-I-17 दिनांक 02 जनवरी, 2018 का संदर्भ लें।
2. मल्टी ग्रेनेड लन्चर (एम0जी0एल0) 40 एम0एम0 के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) में संशोधन के लिए तकनीकी विशेषज्ञों के उप समूह की बैठक मुख्यालय राष्ट्रीय सुरक्षा गारद में दिनांक 30 मई 2023 को 1100 बजे आयोजित हुई।
3. बैठक के दौरान उप समूह ने कहा कि विक्रेताओं की टिप्पणियों/सुझावों को आमंत्रित करने के लिए मल्टी ग्रेनेड लन्चर (एम0जी0एल0) 40 एम0एम0 के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) के मसौदे को 15 दिनों के लिए राष्ट्रीय सुरक्षा गारद के साथ-साथ गृह मंत्रालय की वेबसाइट पर डाला जाए।
4. पीएम डिविजन के उपर्युक्त संदर्भित पत्रों के अनुसार मल्टी ग्रेनेड लन्चर (एम0जी0एल0) 40 एम0एम0 के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) का मसौदा संलग्न परिशिष्ट के अनुसार गृह मंत्रालय की वेबसाइट पर डालने हेतु प्रिंटेड कॉपी तथा सॉफ्ट कॉपी में भेजा जा रहा है।

प्रदीप
22/06/2023
(पी0सी0शर्मा)
ग्रुप कमांडर (कय)

संलग्नक : उपर्युक्त

अनुभाग अधिकारी, रूम न0-10, (IT Cell), एनआईसी, नार्थ ब्लॉक, नई दिल्ली

Email: soit@nic.in

पी/604/22/389/MGL 40mm/संभरण(ऑर्डनेंस)/एनएसजी/420 दिनांक : 20 जून 2023

मल्टी ग्रेनेड लन्चर (एम0जी0एल0) 40 एम0एम0 के परिशोधित गुणात्मक आवश्यकता (क्यूआर)/
परीक्षण निर्देशों (टीडी) के मसौदे पर विक्रेताओं की टिप्पणियों का आमंत्रण

1. आपको सूचित किया जाता है कि मल्टी ग्रेनेड लन्चर (एम0जी0एल0) 40 एम0एम0 के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) के मसौदे पर फर्मों/विक्रेताओं की टिप्पणियां आमंत्रित है। सभी फर्मों से निवेदन है कि नीचे दिए गए प्रारूप में OEM certificate एवं Make in India (MII) compliance certificate सहित वे अपनी टिप्पणियां भरकर ई-मेल पता scord@nsg.gov.in या gcproc@nsg.gov.in पर भेजें।

गुणात्मक आवश्यकता (क्यूआर)	परीक्षण निर्देश (टीडी)	फर्म द्वारा टिप्पणियां
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2. आपसे अनुरोध है कि वेबसाइट पर प्रदर्शित होने की तारीख से 15 दिनों के भीतर अपनी टिप्पणियां भेजें। उप समूह कमेटी की बैठक में उपर्युक्त उपकरण/हथियार के गुणात्मक आवश्यकताओं/परीक्षण निर्देशों को अंतिम रूप देने पर विचार किया जा रहा है।

दिनांक : 20 जून 2023


प्रतिप
20/06/2023
(पी0सी0 शर्मा)
ग्रुप कमांडर (कय)

DRAFT QUALITATIVE REQUIREMENT (QR) AND TRIAL DIRECTIVES (TDs) OF MULTI GRENADE LAUNCHER (MGL)

Note: User based on requirement can opt for either Option -1 or Option-2

OPTION-1 : 40mm Multi Grenade Launcher (MGL) for Low Velocity (LV) Ammunition

S/N	Parameter	Specification	Trial Directive
1	Caliber	40 x 46mm (for low velocity amn).	OEM to provide certificate confirming the Caliber of the weapon. Certificate to be checked by the BOO.
2	Number of chambers	Not less than six	To be physically checked by the BOO.
3	Grooves	MGL should have grooves in barrel to achieve desired range and accuracy	To be physically checked by the BOO.
4	Accuracy at 75 meters	Grouping of 0.95m x 0.95m or smaller on a vertical target of steel plate with dimensions of 2000x2000x2mm	30 Grenades (inert/practice) to be fired with a mechanical mount and out of 30 Grenades, 27 Grenades to hit within a group size of 0.95x0.95 meters from a distance of 75 meters on a vertical target of steel plate with dimensions of 2000x2000x2mm.
5.	Effective Range	MGL should achieve a range not less than 375 meters with low velocity amn.	Firm to provide the Grenades for the test. To calculate the effective range, 10 Grenades to be fired and average of achieved range should be calculated. In-case of Blind/misfire additional grenades to be provided
6.	Type of Fire	Single shot and semi-automatic fire	To be physically checked by BOO.
7.	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.
8.	Weight	Weight without ammunition and sight (Not more than 5.5 kg)	To be physically checked by the BOO.
9.	Length (stock closed)	Maximum 700mm	To be physically checked by the BOO.
10	Length (stock open)	Maximum 780mm	To be physically checked by the BOO.



















S/N	Parameter	Specification	Trial Directive
11.	Muzzle velocity	For Low velocity amn-76 \pm 3 m/s	OEM to provide certificate in this regard.
12.	Safety	Both Applied and mechanical safety should be available	To be physically checked by the BOO. Firm to provide OEM certificate for same.
13.	Sighting system	Red dot / Collimated Reflex sighting system	To be physically checked by the BOO.
14.	Operating temperature	-45(\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.
15.	Robustness	(a) To comply with TOP 03-2-045 A/AW DEF STAN 00-35/DGQA certification for bulk production on safety parameters (b) MGL should have anti corrosive coating.	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 :- (i) Drop Test (ii) Mud Test (iii) Water Immersion Test (b) OEM to provide certificate for the same.
16.	Gauging	Weapon to be checked for gauging on following 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.












S/N	Parameter	Specification	Trial Directive	
17.	Compatibility with ammunition	Standard Low Velocity 40 x 46mm lethal and non lethal ammunition	BOO to physically check the same with their ammunition	
18.	Life of barrel	Not less than 5000 rounds.	OEM to provide a certificate to the effect from a national / international accredited laboratory.	
19.	Maintenance and Operability	a) Field stripping and assembling of the system to be done without use of any special tool. b) 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. c) List of all spare parts to be provided by OEM.	To be physically checked by BOO (b) Stripping and assembling to be physically checked by BOO.	
20.	Training	(a) Firm to provide one week of user level trg at the locations specified by the user. (b) Firm to provide one week of repair level training at the locations specified by the user.	Firm to provide undertaking for the same. Firm to provide undertaking for the same.	

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S/N	Parameter	Specification	Trial Directive
21	Misc	(a) Operator manual, trg manual, illustrated spare part list with diagram, tech brochure to be provided by firm. (b) Suitable Sling, Hard carrying case, Stripping tools, muzzle cover, Suitable cleaning kit to be provided.	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 meter on a flat and hard surface, No cracks/deformation is acceptable.

OPTION-2 : 40mm Multi Grenade Launcher (MGL) for Medium Velocity (MV) Ammunition

S/N	Parameter	Specification	Trial Directive
1	Caliber	40 x 51 mm(for medium velocity am.1)	OEM to provide certificate confirming the Caliber of the weapon. Certificate to be checked by the BOO.
2	Number of chambers	Not less than six	To be physically checked by the BOO.
3.	Grooves	MGL should have grooves in barrel to achieve desired range and accuracy.	To be physically checked by the BOO.
4	Accuracy at 75 meters	Grouping of 0.95m x 0.95m or smaller on a vertical target of steel plate with dimensions of 2000x2000x2mm.	30 Grenades (inert/practice) to be fired with a mechanical mount and out of 30 Grenades, 27 Grenades to hit within a group size of 0.95x0.95 meters from a distance of 75 meters on a vertical target of steel plate with dimensions of 2000x2000x2mm.
5	Effective Range	MGL should achieve a range not less than 800 meters with medium velocity	Firm to provide the Grenades for the test. To calculate the effective range, 10 Grenades to be fired and average of achieved range should be calculated. In case of Blind/misfire additional grenades to be provided

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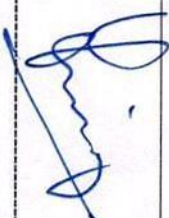
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S/N	Parameter	Specification	Trial Directive	
6.	Type of Fire	Single shot and semi-automatic fire	To be physically checked by BOO.	
7.	Rate of fire	Not less than 20 grenades per minute	To be physically checked by BOO by firing 6 grenades from fully loaded MGL and all 6 grenades should be fired in 18 seconds.	
8.	Weight	Weight without ammunition and sight (Not more than 6 kg)	To be physically checked by the BOO.	
9.	Length (stock closed)	Maximum 750 mm	To be physically checked by the BOO.	
10	Length (stock open)	Maximum 830 mm	To be physically checked by the BOO.	
11.	Muzzle velocity	For Medium velocity amn-124 ± 3 m/s	OEM to provide certificate in this regard.	
12.	Safety	Both Applied and mechanical safety should be available	To be physically checked by the BOO. Firm to provide OEM certificate for same.	
13.	Sighting system	Collimated Reflex sighting system	To be physically checked by the BOO.	
14.	Operating temperature	-45($\pm 3^{\circ}\text{C}$) to +55($\pm 3^{\circ}\text{C}$) degree Celsius and RH up-to 90%	OEM to provide a certificate to the effect from DGQA/ National / international accredited laboratory.	
15.	Robustness	(a) To comply with TOP 03-2-045 A/IAW DEF STAN 00-35/DGQA (b) MGL should have anti corrosive coating.	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 :- OEM to provide certificate for the same.	

S/N	Parameter	Specification	Trial Directive
16.	Gauging	Weapon to be checked for gauging on following 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.
17.	Compatibility with ammunition	Medium velocity 40x51mm lethal and non lethal ammunition.	BOO to physically check the same with their ammunition
18.	Life of barrel	Not less than 5000 rounds.	OEM to provide a certificate to the effect from a national / international accredited laboratory.
19.	Maintenance and Operability	a) Field stripping and assembling of the system to be done without use of any special tool. b) 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. c) List of all spare parts to be provided by OEM.	To be physically checked by BOO Stripping and assembling to be physically checked by BOO.



















S/N	Parameter	Specification	Trial Directive
20.	Training	Firm to provide one week of user level trg at the locations specified by the user.	Firm to provide undertaking for the same.
21	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 meter on a flat and hard surface , No cracks/deformation is acceptable.

Agneshe
(Bronevaktmar)
PSC(W) BPRD

Vinay Verma
DCCARF)

A.N. Furorhit, DC/AZA

JBWANT SM&H
ACI&D 17&P

Satyadev
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