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Government of India  
Ministry of Home Affairs  
**Directorate General National Security Guard**  
(Provisioning Branch/Ord Section)  
Mehram Nagar, Palam, New Delhi – 110 037  
Fax No. 011-25663258/25671639

No. P/604/18(389)/40MM UBGL/Prov (Ord)/NSG/2321 Dated, the 27 Jul 2020

**QUALITATIVE REQUIREMENTS (QRs) AND TRIAL DIRECTIVES (TDs)**  
**OF UNDER BARREL GRENADE LAUNCHER (UBGL) 40MM**

1. The QRs and TDs in respect of **Under Barrel Grenade Launcher (UBGL)** as per Annex-I respectively has been approved by the competent authority is forwarded herewith.
2. For your information and further necessary action please.



(Rakesh Kumar)  
Group Commander (Proc)

**Distribution:-**

1. JS (PM), MHA, Jaisalmer House, New Delhi - for information please.
2. IG/ Director (R&D), BPR&D, 4th Floor, Block No 11, CGO Complex, New Delhi.
3. DIG (Prov), CRPF, CGO Complex, New Delhi.
4. DIG (Prov), CISF, CGO Complex, New Delhi.
5. DIG (Prov), ITBP, CGO Complex, New
6. DIG (Prov), SSB, R.K. Puram, New Delhi.
7. DIG (Prov), BSF, CGO Complex, New Delhi
8. DIG (Prov), Assam Rifles (Through LOAR)
9. Ops (WE), HQ NSG

## TRIAL DIRECTIVES FOR 40 MM UBGL

### Introduction

1. UBGL is a short range grenade launching area weapon used by a single person to cover the target at short ranges. It is an attachment to a Rifle, which enables firing of grenades and engaging the target with different kind of ammunitions.

2. Keeping in view, Trial Directives are being formulated to enable evaluation of functional and operational capabilities of weapon by the standing technical evaluation committee/BOO. The aim of Trial directive will be to assess the performance of the UBGL against the various parameters mentioned in its QRs.

### Trial requirements

3. Duration of Trial : Duration of trial will be determined by the number of weapons to be evaluated. All the weapons alongwith accessories, ammunition and related literature to be produced for user trial and should be made available one week prior to commencement of trial for pre-trials formalities.

4. Trial will be conducted in the field area as per the discretion of competent authority.

5. Number of Weapons: Three sample weapons should be provided by each vendor. Vendor to also produce the complete accessories alongwith each weapon.

6. Ammunition: Each vendor is required to produce Qty – 50 rounds each of 40 x 46 mm HE, HEDP, Target Marker and Red Phosphorus ammunition (Total 200 rounds). The ammunition as far as possible should be of fresh lot and the type of ammunition that can be fired from the weapon to be specified.

7. Technical Literature : User hand book, design specification, illustrated spare part list, preservation instruction, CES (Complete equipment Schedule) and repair manual including maintenance tasks, procedure for assembly/stripping and safety precautions. These should be made available at the time of trial.

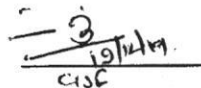
8. Tools, SMT, Gauges : One set of tools SMT and gauges should be made available at the time of trial.

9. The weapon should have been subjected to proof firing prior to positioning for user trials. A safety certificate stating that the weapons and ammunition are safe to fire for trials will be rendered by the OEM prior to commencement of user trials and the same will be checked by the BOO.

10. The BOO will earmark the trial equipment for its evaluation. The vendor reps will be required to give a certificate that the equipment given to the evaluation committee is acceptable for their trial and vendor shall depute their personnel for the trials including a good firer.

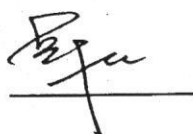
  
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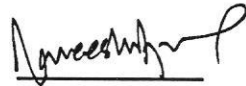
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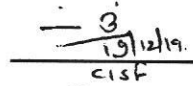
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**TRIAL DIRECTIVES FOR 40 MM UBGL (Contd..)**

S/No.	Parameter	Specification	Trial Methodology
1.	Caliber	40 mm.	To physically check the weapon with the help of Tools and Gauges (measuring instruments)
2.	Feed System	Breech Loaded.	-do-
3.	Rate of fire	Not less than 5 rounds per minute.	Test firing to be carried out by firm reps in the presence of the BOO.
4.	Effective Range	Minimum 400 m.	Test firing to be carried out by firm reps in the presence of the BOO& BOO will physically check the distance.
5.	Length	Not more than 400 mm.	To be physically measured by the BOO. The length of UBGL should not be more than 400 mm.
6.	Weight	Not more than 1.6 Kg.	To be physically weighed by the Board. The weight of the weapon should not be more than 1.6 Kg.
7.	Safeties	UBGL should have mechanical and applied safety mechanism.	To be demonstrated by the OEM/Vendor and the same to be checked by the BOO.

  
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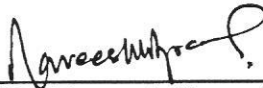
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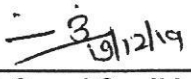
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TRIAL DIRECTIVES FOR 40 MM UBGL (Contd..)


S/No.	Parameter	Specification	Trial Methodology
08.	Operational Temperature	-20 <sup>0</sup> to +55 <sup>0</sup> C.	OEM to provide certificate and same be checked by BOO.
09.	Service life	Minimum 1000 rounds/ 15 years whichever is earlier (certification to be provided by firms).	OEM/Firm to provide certificate confirming the life of the barrel as minimum 1000 Rounds. The certificate to be checked by the BOO.
10.	Ammunition Grenades	Compatible with Rounds 40x 46 mm.	OEM/Firm to provide safety certificate duly certifying that the UBGL is capable of safely firing rounds 40 x 46 mm.
11.	Compatibility	The UBGL should be able to mount on / compatible with the assault rifle of user organization to be specified at the time of tendering.	To be physically checked by the BOO. OEM/Firm to provide certificate duly certifying that the UBGL is mountable / compatible with a specific assault rifle held with the user directorate.
12.	Accuracy	There should be a minimum of 3 hits out of 5 rounds serially fired by a shooter in which weapon is mechanically clamped to a static platform and in normal environmental conditions at earmarked area of 5m radius placed at a distance of 100 meters.	To be checked by BOO. OEM to provide additional stores like shooting rest/ fixed mount for trials
13.	Interface/ Weapon	To be defined by the user.	-


  
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