

REVISED QRs/SPECIFICATIONS OF 40 MM UBGL

103

Sl. No.	Parameter	Specification
1.	Caliber	40 mm.
2.	Feed System	Breech Loaded.
3.	Muzzle velocity	Minimum 75 m/s (certificate to be provided by the firm).
4.	Rate of fire	Not less than 5 rounds per minute.
5.	Effective Range	Minimum 400 m.
6.	Length	Not more than 400 mm.
7.	Weight	Not more than 1.6 Kg.
8.	Sighting System	Inbuilt sighting system for day and night firing.
9.	Safeties	UBGL should have mechanical and applied safeties.
10.	Operational Temperature	-20° to +55° C.
11.	Barrel life	Minimum 5000 rounds (certification to be provided by firms).
12.	Ammunition Grenades	Compatible with Rounds 40x 46 mm Low Velocity.
13.	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.
14.	Accuracy	There should be a minimum of 3 hits out of 5 rounds serially fired by a shooter in the standing unsupported position, at an area target of 5m radius placed at a distance of 400m.

[Signature]
ASHISH RANJAN
DC, CRPF

[Signature]
Umesh Chandra
Asst Director

[Signature]
Nilesh Sharma
SEA (w)

[Signature]
RATENDER
SF SIK

[Signature]
Ajit Kumar Sr / m

[Signature]
S K Thakur
DC (Admin)
Asst. Secy

[Signature]
Satinder Singh
AC ITRP

[Signature]
HARJINDER KUMAR
DC BSA

[Signature]
Maj Ashish Mohanty
TC WE, HQ NSG

[Signature]
Maj S. Sachdeva
Secy (ord), HQ NSG.

✓ APPROVED / NOT APPROVED

[Signature]
(R C Tayal)
DG, NSG

102



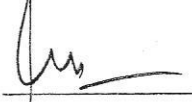

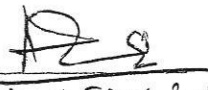
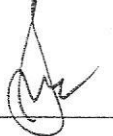




TRIAL DIRECTIVES FOR 40 MM UBGL

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 assess the performance of the UBGL against the various parameters mentioned in its QRs.

Trial requirements

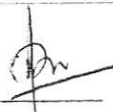
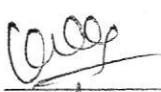


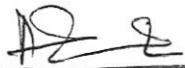

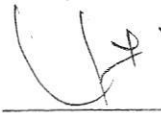



3. Duration of Trial : Duration of trial will be determined by the number of weapons to be evaluated. All the weapons alongwith accessories, ammunition and related literature to be produced for user trial and should be made available one week prior to commencement of trial for pre-trials formalities.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

 _____	 _____	 _____	 _____
 _____	 _____	 _____	 _____
Ajit Kumar Brijm BSR  _____	 _____	_____ _____	_____ _____

TRIAL DIRECTIVES FOR 40 MM UBGL (Contd..)

(Handwritten mark)

S/No.	Parameter	Specification	Trial Methodology
1.	Caliber	40 mm.	To be physically checked by the BOO.
2.	Feed System	Breech Loaded.	-do-
3.	Muzzle velocity	Minimum 75 m/s (certificate to be provided by the firm).	OEM/Firm to provide certificate alongwith laboratory test report from a laboratory accredited in terms of ISO/IEC 17025 for the relevant services by an Accreditation Body which is member of the International Laboratory Accreditation Cooperation (ILAC) Arrangement to the effect that his launcher has been qualified to fire ammunition with a mean muzzle velocity of minimum 75 m/s.
4.	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.
5.	Effective Range	Minimum 400 m.	Test firing to be carried out by firm reps in the presence of the BOO.
6.	Length	Not more than 400 mm.	To be physically measured by the BOO. The length of UBGL should not be more than 400 mm.
7.	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.
8.	Sighting System	Inbuilt sighting system for day and night firing.	To be physically checked by the BOO.
9.	Safeties	UBGL should have mechanical and applied safeties.	To be demonstrated by the OEM/Vendor and the same to be checked by the BOO.

			
			
Authority for I.M. SSR			
			

100

TRIAL DIRECTIVES FOR 40 MM UBGL (Contd..)

S/No.	Parameter	Specification	Trial Methodology
10.	Operational Temperature	-20° to +55° C.	OEM/Firm to provide certificate alongwith laboratory test report from a laboratory accredited in terms of ISO/IEC 17025 for the relevant services by an Accreditation Body which is member of the International Laboratory Accreditation Cooperation (ILAC) Arrangement.
11.	Barrel life	Minimum 5000 rounds (certification to be provided by firms).	OEM/Firm to provide certificate confirming the life of the barrel as minimum 5000 Rounds. The certificate to be checked by the BOO.
12.	Ammunition Grenades	Compatible with Rounds 40x46 mm Low Velocity.	OEM/Firm to provide safety certificate duly certifying that the UBGL is capable of safely firing rounds 40 x 46 mm Low Velocity
13.	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 hed with the user directorate.
14.	Accuracy	There should be a minimum of 3 hits out of 5 rounds serially fired by a shooter in the standing unsupported position, at an area target of 5m radius placed at a distance of 400m.	To be physically checked by the BOO.

Ashish Ranjan
Ashish Ranjan
 DC CRPF

Omesh Chandra
Omesh Chandra
 Asstt Dir NSG

Y. L. Sharma
(Y. L. Sharma)
 SCA (U)

Rajinder
Rajinder
 NSG DWS

Apal Kumar
Apal Kumar
 S/1 NSG

S. S. Salhadina
S. S. Salhadina
 DC NSG

Satinder Singh
(Satinder Singh)
 AC ITISD.

H. R. Kumar
(HARJINDER KUMAR)
 DC BSE

Ashish Mohanty
Maj Ashish Mohanty
 TC WE, HQ NSG

Maj S. Salhadina
Maj S. Salhadina
 S/Coord, HQ NSG.

APPROVED / NOT APPROVED

(R C Tayal)
(R C Tayal)
 DG, NSG