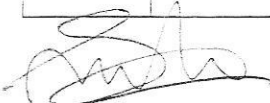
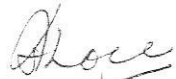


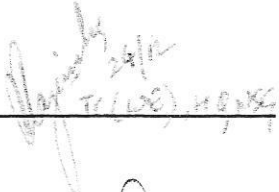

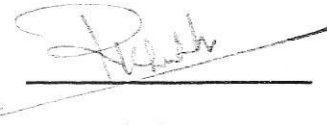







QRS OF ROUND 40 MM LOW VELOCITY TARGET MARKER

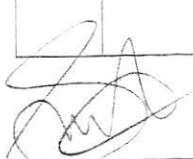
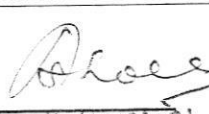
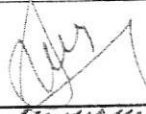
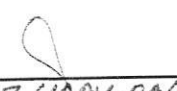

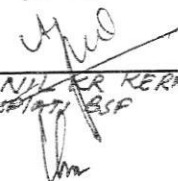
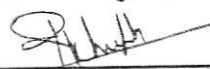
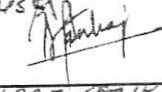
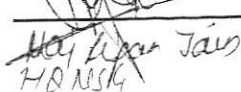



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Ser No	Parameter	Specifications
1	Caliber	40 X 46 mm.
2	Length of Round	103± 0.5 mm
3	Mass of Round	min 225 gms
4	Muzzle Velocity	76± 3 m/s
5	Maximum Range	400 m
6	Time of intensive smoke emission	Min 20 Sec
7	Smoke Colour	Highly visible Orange colored smoke
8	Operational Temperature Range in (Degree Centigrade)	-40°C to +52°C.
9	Marking Range	Within 30% of the aimed range.
10	Reliability	Min 90%
11	Shelf Life	10 years
12	UN HD	1.3/1.4
13	Compatibility Group	G
14	Fit for Air Drop	Ammunition should be air droppable and packed inside the boxes.
15	Compatibility with weapon	40 mm MGL(Breech Loading) and 40 mm UBGL (Breech loading type). The Model of the UBGL & MGL to be specified by the indenter.


 (S.S. GHOSALE) Rtd V. D. D. G. A.	 (ASHOK KUMAR) WCD, SSB		
			
			

QRS OF ROUND 40 MM LOW VELOCITY TARGET MARKER (Contd..)

Ser No	Parameter	Specification
16.	<p>The following minimum information will be supplied in English language by the manufacturer :-</p> <p>(a) Frequency of Inspection, time, month etc. of inspection.</p> <p>(b) Parameters for Visual Inspection, Static Proof & Dynamic Proof.</p> <p>(c) Parameters for declaring the ammunition as serviceable, unserviceable and repairable.</p> <p>(d) Instructions for breakdown of ammunition (if any) & method of disposal.</p> <p>(e) Instructions for storage of ammunition.</p> <p>(f) Instructions for safe transportation of ammunition by rail, road, sea and by air.</p> <p>(g) Description of each safety feature designed into the ammunition, how each safety feature is intended to function and for those under shooter control (if any), how the shooter should operate (activate/deactivate) each safety feature.</p> <p>(h) Illustrated/ detailed diagrams identifying/ depicting all the parts of the ammunition.</p>	<p>10 Sets.</p>


 <u>Lt Col Bhatnagar</u> Lt Col Bhatnagar DGRA	 <u>Lt Col Ashok Kumar</u> Lt Col Ashok Kumar INSF, SSB	 <u>Lt Col Srivastava</u> Lt Col Srivastava Asst Comm Rifles	 <u>Lt Col Uday Badhani</u> Lt Col Uday Badhani HQ NSG
 <u>Lt Col RS Bhaduria</u> Lt Col RS Bhaduria TC (WE) HQ NSG	 <u>Lt Col Anil K. Kerna</u> Lt Col Anil K. Kerna INSF, SSB	 <u>Lt Col Rajesh Luthra</u> Lt Col Rajesh Luthra AC, ITBP	 <u>Lt Col Abhinav Kumar</u> Lt Col Abhinav Kumar DC CRPF
 <u>Lt Col Anil Jain</u> Lt Col Anil Jain HQ NSG	 <u>Lt Col Vivek Bhandral</u> Lt Col Vivek Bhandral GC (PROV), HQ NSG	 <u>Lt Col Alok Kumar</u> Lt Col Alok Kumar DIG (PROV) HQ NSG	 <u>Lt Col Sanjay Sharma</u> Lt Col Sanjay Sharma BPRD


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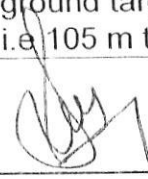

(JN Choudhury)
DG NSG


TRIAL DIRECTIVES OF ROUND 40 MM LOW VELOCITY TARGET MARKER


Ser No	Parameter	Specifications	Method
1	Caliber	40 X 46 mm.	To be physically checked by the board of officers. Gauges and tools for the same to be provided by the OEM/Firm.
2	Length of Round	103± 0.5 mm	To be physically checked by the board of officers.
3	Mass of Round	Min 225 gms	To be physically checked by the board of officers.
4	Muzzle Velocity	76± 3 m/s	OEM/Firm to provide 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.
5	Maximum Range	400 m	When fired from the weapon at an angle of elevation that causes the projectile to achieve maximum horizontal distance, the projectile shall impact at a horizontal distance of 400 mtrs.
6	Time of intensive smoke emission	Min 20 Sec	To be physically checked by the board of officers.
7	Smoke Colour	Highly visible Orange colored smoke	To be physically checked by the board of officers.
8	Operational Temperature Range in (Degree Centigrade)	-40°C to +52°C.	OEM/Firm to provide 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.
9	Marking Range	30% of the aimed range.	10 Rounds (plus 03 rds for aiming) to be fired at a range of 150m on ground target. Rounds should function within 30% of the aimed range i.e 105 m to 195m.



 (S.S. RAMESH)
 Asst Dir, DGDA

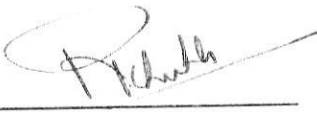







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 TC(LINE), HQNSG

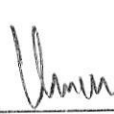






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TRIAL DIRECTIVES OF ROUND 40 MM LOW VELOCITY TARGET MARKER (Contd..)

Ser No	Parameter	Specifications	Method
10	Reliability	Min 90%	10 Rounds will be fired at max. Distance and the acceptance criteria will be as under :- (a) Premature burst at barrel bore- none allowed. (b) Premature burst along the grenade trajectory- not allowed. (c) Primer blowback - None allowed. (d) Round stuck up - None allowed. (e) Failure to extract cartridge case- None allowed. (f) Incomplete burst/Misfire - 1 out of 10 allowed.
11	Shelf Life	10 years	OEM/Firm to provide 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.
12	UN HD	1.3/1.4	-do-
13	Compatibility Group	G	-do-
14	Fit for Air Drop	Ammunition should be air droppable and packed inside the boxes.	-do-
15	Compatibility with weapon	40 mm MGL(Breech Loading) and 40 mm UBGL (Breech loading type). The Model of the UBGL & MGL to be specified by the indenter.	-do-

(S.S. BHUSALE)
Asst Dir. DGGA

[Signature]

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24/12
IC(WE), HQ USG

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24/12

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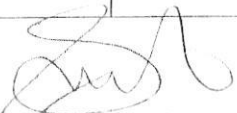
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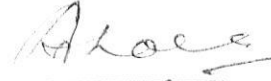
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TRIAL DIRECTIVES OF ROUND 40 MM LOW VELOCITY TARGET MARKER (Contd..)

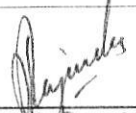
Ser No	Parameter	Specifications	Method
16	The following minimum information will be supplied in English language by the manufacturer :- (a)Frequency of Inspection, time, month etc. of inspection. (b)Parameters for Visual Inspection, Static Proof & Dynamic Proof. (c)Parameters for declaring the ammunition as serviceable, unserviceable and repairable. (d)Instructions for breakdown of ammunition (if any) & method of disposal. (e)Instructions for storage of ammunition. (f)Instructions for safe transportation of ammunition by rail, road, sea and by air. (g)Description of each safety feature designed into the ammunition, how each safety feature is intended to function and for those under shooter control (if any), how the shooter should operate (activate/deactivate) each safety feature. (h)Illustrated/ detailed diagrams identifying/ depicting all the parts of the ammunition.		To be provided by the OEM/Firm and the same to be checked by the Board of Officers.



 (LT COL BASALE) ASST. DIR
 DG QA



 (LT COL KUMAR)
 INSP, ISSB

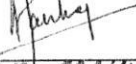

 (LT COL SRETAKER)
 Asst. Rifles



 (MAJ UDAY BADHANI)
 SAsT, NSG

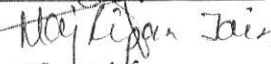

 (MAJ RS BHADURIA)
 TCCMTC, HQ NSG

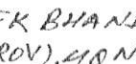

 (ANIL K R KERNI)
 INSP/AT/BSF

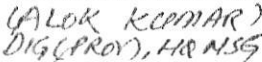

 (RAKESH LUTHRA)
 AC IT BP


 (ABHIRAM PATRA)
 DC, CRPF



 SANJAY SHARMA, PSO (W)
 PPR & D


 Lt Col Lijun Jain
 HQ NSG


 (VIVEK BHANDRAL)
 GC (PROV), HQ NSG


 (ALOK KUMAR)
 DIG (PROV), HQ NSG

APPROVED/NOT APPROVED


 (J N Choudhury)
 DG NSG