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F.No. P/604/2014(389)/NSG/MHA 9844 Bharat Sarkar/Government of India Grihas Mantralaya/Ministry of Home Affairs PM Division/Prov.II

26, Man Singh Road, Jaisalmer House, New Delhi. Dated ; /6 December 2014

То

DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject :- QRs and Trial Directives of Round 40mm Low Velocity Target Marker.

The QRs and trial directives of Round 40mm Low Velocity Target Marker (as per annexure) have been accepted by the competent authority in MHA subject to condition that no deviation will be made from the proposed QRs and Trial Directives without the permission of MHA.

2. Henceforth, all the CAPFs should procure the above item strictly as per the laid down Technical Specifications/QRs subject.

3. CAPFs concerned will be accountable for correctness of the QRs and TDs.

Encl: A/a

Yours Faithfully,

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(P.K. Srivastava) Under Secretary to the Govt. of India Tele/Fax: 2338 1278

Copy forwarded for necessary action to:-

The Section Officer (IT), MHA: it is requested to host the QRs (soft copy attached) on the MHA website (under the page of Organizational set up- Police Modernization Division- QRs under A & A items)

(Ritesh Kumar) Section Officer (Prov.II) Tel No: 2338 6034

Copy to :- DDG, (Procurement), MHA, Jaisalmer House

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QRS OF ROUND 40 MM LOW VELOCITY TARGET MARKER

Ser No	Parameter	Specifications		
1	Caliber	40 X 46 mm.		
2	Length of Round	103 <u>+</u> 0.5 mm		
3	Mass of Round	min 225 gms		
4	Muzzle Velocity	76 <u>+</u> 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.		

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Ser No	Parameter	Specification
16.	The following minimum information will supplied in English language by the manufacturer :-	be
	(a) Frequency of Inspection, time, mo etc. of inspection.	onth
	(b) Parameters for Visual Inspection, Static Proof & Dynamic Proof.	
	 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 ammunition by rail, road, sea and air. 	n of by
	(g) Description of each safety feature designed into the ammunition, how each safety feature is intended to function and for those under shoo control (if any), how the shooter should operate (activate/deactivate each safety feature.	w iter
2	 (h) Illustrated/ detailed diagrams identifying/ depicting all the parts the ammunition. 	of
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BATAS	ABLE) ANGEDIN (ASHOK KUMAR) (DC DAGA INSP, SSB A	BAR ALAREN (MAT UDAY BACHANI) Sam Rifles Saus As Au
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MC.		HON L SANSAY SHARMA, P
of the	(VIVER BUTANDRAL) (A GCLPROV), H&NSG DI	G(PROV)HRMSG BPR2D
	APPROVED / NOT	APPROVED
	(J N Choud	hury)

(J N Choudhury) DG NSG 69

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TRIAL DIRECTIVES OF ROUND 40 MM LOW VELOCITY TARGET MARKER

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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 <u>+</u> 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 <u>+</u> 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 impart 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 Dange 30% of the aimed 10 Rounds (plus 03 rds for aiming) to be fired at a range of 1		ground target. Rounds should function within 30% of the aimed range	
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-	(b)	Umm	Atm -	

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

Ser	Parameter	Specifications	Method
No 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-
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TRIAL DIRECTIVES OF ROUND 40 MM LOW VELOCITY TARGET MARKER (Contd..)

Method Specifications Parameter Ser No The following minimum information will be supplied in English language by the 16 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. To be provided by the OEM/Firm and (d)Instructions for breakdown of ammunition (if any) & method of disposal. the same to be checked by the Board of (e)Instructions for storage of ammunition. Officers. (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. BHADAURIA) DC. SR THAKER Assam Rifles (MAJ UDAX BADHANI BISC-DON ASHOR RUMAR MA BHOSALE, TCCMAED, HONSE INDSP, 85B sall, ally (RAJESH LUTHRA) DC, CRPF PAKA SERNI) ANIL SANDAY SHARMA, PSOLUD INISPIATI BSF IT BP BPRLD Liban Jain GALOK KOMAR (VIIVER BHANDRAL) GC (PROV), 40 N 59 DIG (PROV), HO MSG **APPROVED/NOT APPROVED** (J N Choudhury) DG NSG

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