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No. IV-13018/12/2009-Prov-II
Government of India
Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House,
New Delhi, 11.6.2009

To

The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BFR&D

2009/11

Subject:- Technical Specifications/QRs of the (i)AK Series Rifles and (ii) Assault Rifles.

The Technical Specifications/QRs of the (i) AK Series Rifles and (ii) Assault Rifles as per Annexure-A and Annexure-B, have been accepted by the Competent Authority in MHA.

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Technical Specifications/QRs.

11/06/09

(R.S.Sharma)
Director (Prov)

Copy to:-

DDG(Procurement),MHA

Copy for information to:-

PS to JS(PM),MHA

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DSG (Prov.)

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ANNEXURE

DRAFT QR OF ASSAULT RIFLE 5.56 X 45 mm

Sl. No	Parameters	Requirement
1	Calibre	5.56 mm
2	Cartridge	5.56 X 45 mm (Compatible with Indian make Ammunition)
3	Type of Fire	Automatic/Semi-automatic
4	Cyclic Rate of Fire	700 r/m (Minimum)
5	Overall length :- Butt retracted/Folded Fixed	Folded-759 mm (Maximum) Extended-950 mm (Maximum) (Including muzzle attachment and excluding Bayonet)
6	Operation	Gas
7	Locking	Rotating bolt
8	Bayonet	Multi Purpose
9	Weight of the Rifle with empty magazine. (Including muzzle attachment, Excluding Bayonet & optical sight)	Maximum - 4.0 Kg.
10	Ejection Pattern	Front angular 15° to 75° (Desirable)
11	Safety	Should have mechanical and applied safety.
12	Rifling	4 grooves (Minimum)
13	Life of Barrel	20,000 rds (Minimum)
14	Ability to Withstand impact	Should be able to with stand an impact of free fall from 6' height on hard surface.
15	Smoke from barrel	Minimum
16	Shine and colour of the furniture	Black with good aesthetic look with mat finish without shine.
17	Furniture	a) Butt Stock Assembly- Fixed Wooden/ FRP or metallic folded/ retractable. b) Upper hand guard-FRP c) Lower hand guard FRP d) Pistol grip FRP
18	Capacity of Magazine	30 rds minimum
19	Effective Range	400 meters minimum
20	Muzzle Velocity	Not less than 750 m/s
21	Beta Sight	Rear Sight & fore sight
22	Provision for mounting UBGL 40 mm	Essential
23	Flash Eliminator	Essential

22	Accuracy of mounting device in mm	Essential
23	Flash Eliminator	Essential

M. J. V. P.

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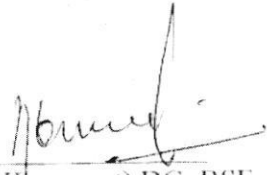
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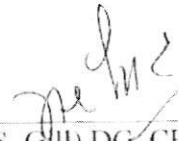
24	Accuracy/Consistency				
	Range (m)	Sight At A (M)	No of rounds	Accuracy H x V (mm)	MPI (mm)
i)	100	200	6 out of 7 (SS)	84 x 84	0 to 125 UP 42 L or R
ii)	200	200	6 out of 7 (SS)	168 x 168	0 to 250 UP 84 L or R
25	Add on sights				
a)	Provision for Reflex and PNV Sight			Essential	
b)	Collimator/Reflex Sight			Optional	
c)	Invisible laser designator with compatible night sight			Optional	
d)	Attachment for easy fitment of compatible night sight without need for zeroing again.			Optional	
26	Operating/storage temperature				
a)	Operating temperature		-40° C to + 50° C		
b)	Storage temperature		-40° C to + 50° C		
c)	Humidity		95% at 25° C		
27	Engineering Support Package				
	The manufacturer of the Assault Rifles should provided engineering support package including :-				
a)	Technical literature				
b)	Training manuals and user hand books				
c)	Illustrated spare parts list duly priced				
d)	List of STes/SMIs/Test Jigs for ✓				
i)	Repair and testing of main equipment at field level				
ii)	Repair and testing of PCBs Modules of main equipment and its accessories at Base level.				
e)	Recommended list of spares for four years for field level and base level repairs and spares back up must be assured for at least 15 years.				

P. C. Sabarwal
(P.C Sabarwal) BPR&D

N.P.S. Aulakh
(N.P.S. Aulakh) DG. NSG



(M. L. Kumawat) DG, BSF



(A. S. GIII) DG, CRPF