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F.no. IV-13018/17/2009-Prov.II 652
Bharat Sarkar/Government of India
Griha Mantralaya/Ministry of Home Affairs
PM Division/Prov.II
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26, Man Singh Road, Jaisalmer House New Delhi. Dated : 04.05.2016

То

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

Subject :-

QRs and Trial Directives of 5.56 x 45mm Carbine (close quarter battle weapon with Holographic Reflex sight)

The undersigned is directed to refer to DG, NSG letter no. P/604/2015(389)/Pistol 9mm/NSG-1933 dated 26.02.2016 and to say that QRs and Trial Directives of 5.56 x 45mm Carbine (close quarter battle weapon with Holographic sight) (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.

CAPFs concerned will be liable for correctness of the QRs.

Errel: A/a

Copy forwarded for necessary action to:-

Yours Faithfully,

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(P.K. Srivastava)

Under Secretary to the Govt. of India Tele/Fax: 2338 1278

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)

(PK Srivastava)
Section Officer (Prov.II)
Tel No: 2338 6034

Copy to to DDG (Procurement). MHA. Jaisalmer House

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## QRs/SPECIFICATIONS OF 5.56 X 45 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT)

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S/No.	Parameter	Specification					
OPERA	ATIONAL PARAMET	TERS					
i.	Caliber	5.56 x 45 mm NATO standard. Capable of firing indigenous OFB manufactured NATO ammunition without any alterations or replacement of working parts to the carbine.					
2.	Weight of the Carbine	Weight without magazine, however with three picatinny rails and provision for UBGL attachment should not be more than 3.1 kgs.					
3.	Firing Mode	<ul> <li>(a) Single and Automatic.</li> <li>(b) Suitable change lever to select firing mode.</li> <li>(c) Change lever should be positively locked to ensure that weapon fires in desired mode only when it is in designated position.</li> </ul>					
4.	Effective Range	range of 200 mtrs with aimed fire under normal conditions of visibility.					
5.	Muzzle Velocity	Minimum 750 m/s.					
6.	Rate of Fire	Minimum 600 rounds per minute cyclic rate of fire.					
7.	Accuracy	<ul> <li>(a) At 50 mtrs (single shot) - Group size should be within 8 cms x 8 cms.</li> <li>(b) At 50 mtrs (short burst of two/three rounds) - Minimum 50% of total number of rounds fired should hit within 30 cms x 30 cms area.</li> </ul>					
8	Reliability	<ul> <li>(a) 2000 rounds test will be carried out.</li> <li>(b) Total Stoppages in 2000 rounds - Maximum two stoppages (removable without the use of any tools).</li> </ul>					
9.	Adverse Condition Test	<ul><li>(a) Sand Test.</li><li>(b) Water Test.</li><li>(c) Mud Test.</li><li>(d) Drop Test.</li></ul>					
10.	Environmental Conditions	Carbine should be capable of trouble free operation after being stored under following conditions:					
	(a) Operating Temperature	-40 Deg C to +50Deg C.					
	(b) Storage Temperature	-40 Deg C to +50Deg C.					
	(c) Humidity	95% RH at 25 Deg C.					
11.	Designed for right & left handed use	The weapon should be capable of ambidextrous usage without the use of any tool i.e provision of adjustment of the safety lever, magazine catch, fire selector and ejection port to suit both left hand & wight bond fire.					
12.	Color	Black/ Olive Green/Desert pattern, to be specified by the user at the time of tendering.					

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# QRs/SPECIFICATIONS OF 5.56 X 45 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT) (Contd.....)

S/No.	Parameter	Specification
<b>PHYSI</b>	CAL PARAMETERS	
13.	Flash suppressor	The flash suppressor should be provided to suppress the flash.
14.	Length	<ul> <li>(a) Overall Length (Folded/Retracted Butt) – Not more than 700 mm.</li> <li>(b) Overall Length (Extended Butt) – Not more than 850 mm (UBGL attached).</li> </ul>
15.	Picatinny Rail	Mil Standard 1913 Picatinny Rail integrated with the weapon on at least 3 sides to provide interfaces for accessories (i.e. internationally available Holographic/Reflex sights and Tactical lights/LAD).
16.	Barrel	
	(a) Barrel type	Chrome plated rifled bore.
	(b) Barrel Length	Should not be more than 330 mm.
	(c) Barrel life	Barrel life should be of minimum 15,000 rounds.
17.	Optical Sight	
	(a) Type	The carbine should be provided with an integrated holographic reflex sight of weight not more than 300 gms alongwith on/off and retical brightness control.
	(b) Field of View	Minimum 160 with both eyes open.
	(c) Illumination	Reflex sight should be battery powered/self-illuminated.
	(d) Laser Pointers	Red dot and IR Laser (for covert ops).
18.	Magazine	
	(a) Capacity	Capacity of 20-30 rounds.
	(b) Material	<ul> <li>(i) Magazine should be made of see through high strength polymer/composite magazine/metal magazine.</li> <li>(ii) Magazine should have side slots/provision to indicate remaining ammunition.</li> <li>(iii) Magazine should be robust enough to withstand regular field usage under various environmental conditions.</li> <li>(iv) Should not get deformed when subjected to heat during prolonged firing or in hot weather conditions.</li> <li>(v) In case of any damage or deformation due to heavy/rough usage. The magazine should still be functional.</li> </ul>

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### QRs/SPECIFICATIONS OF 5.56 X 45 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT) (Contd.....)

S/No.	Parameter	Specification			
19	Trigger. Stage	Should have 2 stage pull.			
20.	Butt	Butt of the weapon should be foldable/retractable.			
21.	Furniture	Should be made up of high strength polymers/composite/reinforced			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	scratch proof plastic of high strength enabling environmental stability.			
22.	Fore Hand Grip	Fore Hand Grip should be present in the carbine.			
23.	Steel Flip Up	In addition to integrated reflex sight the carbine should have flip up fore sight & rear sight.			
24.	Sling	Carbine should have adjustable and robust carrying sling with attachment facilitating quick detachment.			
MISCE	LLANEOUS PARAM				
25.	Safety	Both mechanical & applied safety.			
26.	Field Stripping	Weapon should be easily stripped without any tools & all cleaning parts to be designed for field cleaning.			
27.	Accessories	Manufacturer should provide accessories to include:  (a) Tactical Light – One for each carbine.  (b) Laser Aiming Device – One for each carbine.  (c) Bayonet – One for each carbine.  (d) Magazine – 3 with each carbine.  (e) Field Cleaning kit (one with each carbine).  (f) Standard weapon tool kit (to be specified by the user).  (g) Measurement gauge (Go & No go) (to be specified by the user).  (h) Filler gauge (to be specified by the user).  (j) Firing pin protrusion gauge (to be specified by the user).  (k) Rigid water proof case for transit of weapon (one with each carbine).  (l) Maintenance manual in English (to be specified by the user).  (m) Technical literature in English (to be specified by the user).  (n) Training manuals & user hand book (to be specified by the user).  (o) Manufacturers recommended list of spares duly priced (to be specified by the user).  (p) Training slides, brochures, video films & CDs (to be specified by the user).  Note: The type and quantity of the accessories to be specified at the			
28.	Training	time of tendering by the user.  In situ training for one week on operation, maintenance, fault finding			
/		and user level repairs.			

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	Effective Range	Firing Mode	Weight of the Carbine	Caliber	ONAL PARAMETERS	Specifications	TRIAL DIRECTIVES
	Change lever should be to ensure that weapon fires only when it is in designated poed soldier should be able to ge human target at a range caimed fire under normal corlity.	<ul><li>(a) Single and Automatic.</li><li>(b) Suitable change lever to select firing</li></ul>	Weight without magazine, however with three picatinny rails and provision for UBGL attachment should not be more than 3.1 kgs.	5.56 x 45 mm NATO standard. Capable of firing indigenous OFB manufactured NATO ammunition without any alterations or replacement of working parts to the carbine.		Parameters	TRIAI DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE
The state of the s	40,	cel		07	2	Trial Directives	BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT)

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# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT)(Contd....)

Ser	Specifications	Parameters	Trial Directives
No		Minimum 750 m/s.	OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details,
5.	Muzzle Velocity	William 130 mas.	the lab. Authenticity of certificate must be confirmed by the BOO.
		Minimum 600 rounds per minute cyclic rate of	-do-
6.	Rate of Fire	fire.	figure 31 target (40 cm X
		(a) At 50 mtrs (single shot) – Group size	(i) For testing accuracy figure 11 target (40 cm.)
7.	Accuracy	should be within 8 cms x 8 cms.  (b) At 50 mtrs (short burst of two/three rounds) — Minimum 50% of total number of rounds fired should hit within 30 cms x 30 cms area.	single shot mode) using the weapon (mounted on fixed mount). Six shots will be considered out of sever Group size should be within 8 cms x 8 cms area. Mour

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# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT)

TIMITE	(Conta)	and the second s
		Trial Directives
Ser Specifications	Parameters  (a) 2000 rounds test will be carried out.	(i) Total of 2000 rounds will be fired in five cycles with 400 rounds each. The firing will be carried out in
Reliability	(a) 2000 rounds test will be said (b) Total Stoppages in 2000 rounds – Maximum two stoppages (removable without the use of any tools).	auto mode  (ii) Cleaning and oiling after firing 2000 rounds.  Tests will be carried out during field functional trial & the firing will be carried out by the firers of the OEM.  Weapon will be fixed on a mount and fired.  Reliability test will be conducted by the OEM.
9. Adverse Condition Test	(a) Sand Test.	ammunition.  (i) Weapon loaded and cocked with full magazine (20/30 rounds) will be buried and fully covered in sand for 10 minutes. Remove from sand and fire. The carbine should be able to fire 5 rounds (single shot and remaining of the rounds in three/five bursts without any stoppages.  (ii) While testing the muzzle and the breach en should be plugged. One round should be in the
	(b) Water Test.	chamber  (iii) Weapon loaded and cocked with full magazin (20/30 rounds) will be fully submerged in water for minutes. Withdraw the weapon and fire (burst) with 3/5 seconds without cocking or draining the weapon The carbine should be able to fire without a stoppages.  (iv) While testing the muzzle should be covered we a muzzle cap or taped. One round should be in
		chamber.

16.

# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPI-IIC REFLEX SIGHT)

	TRIAL DIRECTIVES FOR	2 5.56 X 45 WIN CAR	(Contd	1		
	11111			Ţ	rial Directives	
er	Specifications	Paran	neters	(v) Weapon loaded and c	ocked with full magazine	e (20/30 rounds)
lo		(c) Mud Test.		will be fully submerged weapon and fire (burst)	within 3/5 seconds with a carbine should be at	le to fire without
		(d) Drop Tes		any stoppages.  (vi) While testing the plugged. One round show that the plugged of the powder removed of the provident of the plugges.	e muzzle and the bread build be in the chamber. on with the primed car a height of 1.5 mtrs of out on each face (buttiful magazine and cartrid checked if functional. Let be ammunition and muzcertificate from a negation of the control of the contr	tridge (bullet and n a hard surface. parrel/left/right/top) ge with primer in pad filled magazine tele caps for above
10.	Environmental Conditions	free operation under following		I aredited lab. OEIVI	certificate from a not not to provide contact per serial address & we ate must be confirmed by	heite of the lar
	(a) Operating	-40 Deg C to	+50Deg C.	æ		
	Temperature  (b) Storage Tempera	ture -40 Deg C to				1 100
	(c) Humidity	95% RH at 2	5 Deg C.	lucco	James	
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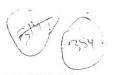
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# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT)

TRIAL DIRECTIVES FO	R 5.56 X 45 WWW 97 (Contd	)	
11.00.	3	Trial Directive	es
er Specifications	Parameters	To be demonstrated by OEM & physica	ally checked by BOO.
	The weapon should be capable of ambidextrous usage without the use of any tool i.e provision of adjustment of the safety lever, magazine catch fire selector and ejection port to sui both left hand & right hand firer.  Black/ Olive Green/Desert pattern, to the time of the safety lever at the sa	o To be demonstrated by OEM & physic	
12. Color	be specified by the user at the time of tendering.		
PHYSICAL PARAMETERS	abould k	pe To be physically checked by BOO.	
13. Flash	The flash suppressor should by provided to suppress the flash.		
	Lend	gth To be physically checked by BOO.	9 9
14. Length	(a) Overall (Folded/Retracted Butt) – Not months than 700 mm. (b) Overall Length (Extended Butt) – Not more than 850 mm (UBGL attached).  Mil Standard 1913 Picatinny	Rail To be physically checked by BOO.	
15. Picatinny Rail	Mil Standard 1913 Hodinary integrated with the weapon on least 3 sides to provide interfaces accessories (i.e internation available Holographic/Reflex signed Tactical lights/LAD).	s for nally	
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# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT) (Contd....)

1		2					17.				16.	Ser	
2	To.		(d)	(c)	(b)	(a)	Optic	(c)	(b)	(a)	Barrel		1
			Laser Pointers	Illumination	Field of View	Туре	Optical Sight	Barrel life	Barrel Length	Barrel type		Specifications	
	The state of the s		Red dot and IR Laser (for coverd ops).	Reflex sight should be battery powered/self-illuminated.	Minimum: 160 with both eyes open.	The carbine should be provided with an integrated holographic reflex sight of weight not more than 300 gms alongwith on/off and retical brightness control.		Barrel life should be of minimum 15,000 rounds.	Should not be more than 330 mm.	Chrome plated rifled bore.		Parameters	(Contd)
		( Carry Daniel				OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail address & website of the lab. Authenticity of certificate must be confirmed by the BOO.		confirmed by the BCO.  (Note: Warranty clause to be added during tendering by the user stating a warranty from the OEM to replace the barrel in case not complying to the parameter of barrel life).	provide contact person details, phone number, address, e-mail address & website of the lab. Authenticity of certificate must be	certificate from a national/international accrecited lab. OEM to		Trial Directives	



# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT) (Contd....)

er	Specifications	Parameters	Trial Directives
8.	Magazine  (a) Capacity  (b) Material	(i) Magazine should be made	OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail address & website of the lab. Authenticity of certificate must be confirmed by the BOO.
19.	<u>Trigger</u> . Stage	functional. Should have 2 stage pull.	OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail address & website of the lab Authenticity of certificate must be confirmed by the BOO.
20.	Butt	Butt of the weapon should be foldable/retractable.	the state of the s

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### TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT) (Contd....)

Ser No	Specifications	Parameters	Trial Directives
21.	Furniture	Should be made up of high strength polymers/composite/reinforced scratch proof plastic of high strength enabling environmental stability.	To be physically checked by the BOO.
22.	Fore Hand Grip	Fore Hand Grip should be present in the carbine.	To be physically checked by the BOO.
23.	Steel Flip Up Sights	In addition to integrated reflex sight the carbine should have flip up fore sight & rear sight.	To be physically checked by BOO.
24.	Sling	Carbine should have adjustable and robust carrying sling with attachment facilitating quick detachment.	To be demonstrated by OEM & physically checked by the BOO.
MISC	ELLANEOUS PARAMETER	S	
25.	Safety	Both mechanical & applied safety.	To be demonstrated by OEM & physically checked by BOO.
26	Field Stripping	Weapon should be easily stripped without any tools or with minimum tools, & all cleaning parts to be designed for field cleaning.	To be demonstrated by OEM & physically checked by BOO.

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# TRIAL DIRECTIVES FOR 5.56 X 45 MM CARBINE(CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC REFLEX SIGHT) (Contd....)

		Parameters	Trial Directives
Ser No 27.	Accessories	Manufacturer of the should provide accessories to include:-  (a) Tactical Light – One for each carbine.	Individual accessories to be demonstrated by OEM & physically checked by the BOO.
28.	Training	the user.  In situ training for one week on operation, maintenance, fault finding and user level repairs.	OEM to provide certificate for the same

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