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F.No. 13018/21/2009-Prov.II — 135 Bharat Sarkar/Government of India Grihas Mantralaya/Ministry of Home Affairs PM Division/Prov.II

14(Prov)

To

26, Man Singh Road, Jaisalmer House, New Delhi. Dated 3) .08.2016

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

Cord.

Subject: QRs and TDs of 9 x 19mm Carbine (close quarter battle weapon with holographic sight).

The QRs and Trial directives of QRs and TDs of 9 x 19mm Carbine (close quarter battle weapon with holographic sight) 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.

Encl: A/a

Yours Faithfully,

(Ram Raj) 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)

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REVISED QRs/SPECIFICATIONS OF 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE) WEAPON WITH HOLOGRAPHIC SIGHT)

	Parameter	Specification Specification
S/No	Introduction. The co	ncept of Short Range Close Quarter Battle (CQB) weapon is that it
	should be light weight, ro	bust, easy to use and modular.
DER	ATIONAL PARAMETERS	
·	Caliber	Weapon should be capable of firing 9 x 19 mm amn including
	Canbor	indigenous OFB manufactured ammunition without any alterations
		les replacement of working parts to the carbine.
	Weight of the Carbine	Weight without magazine however with three picatinny rails
	Weight of the parame	should not be more than 3 kgs.
	Firing Mode	(a) Single and Automatic.
	Filling Wode	Cuitable change lever to select firing mode.
		Observe lover should be nositively locked to ensure the
		weapon fires in desired mode only when it is in designated
		The state of the s
	Effective Range	the able to effectively incapacitate a numa
5.	Ellective Mange	target at a range of 100 mtrs with aimed fire under normal
		conditions of visibility.
	Muzzle Velocity	375 + 10 m/s
S.		- in the avalla rate of fire
7.	Rate of Fire	
3.	Accuracy	(a) At 50 mtrs (single shot) - Group 3/20 should
		8 cms x 8 cms.
	5	(b) At 50 mtrs (short burst of two/three rounds) - All the round
		fired should hit within 15 cms x 15 cms area.
		to an analytical be carried out
9.	Reliability	Maximum one stonnage of Class
		(b) Total Stoppages - Maximum one stopping
		permitted in a cycle of 200 rounds.
10.	Adverse Condition Test	(a) Sand Test.
		(b) Water Test.
		(c) Mud Test.
		(d) Drop Test.
11.	Environmental	
	Conditions	
		AS Device to AFF Deg C
	(a) Operating	-40 Deg C to +55 Deg C.
	Temperature	10 Dog C
	(b) Storage	-40 Deg C to +70 Deg C.
	Temperature	25 Dog C
1	(c) Humidity	95% RH at 25 Deg C.
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		1 mil
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REVISED QRs/SPECIFICATIONS OF 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT) (Contd...)

Parameter Designed for right & left	
nanded use	land a sinction nort to still north left lightly & right hand in or.
Color	Black/olive green/desert pattern, to be specified by user at the
	time of tendering.
	Overall Length – Not more than 720 mm.
	The state of the s
Picatinny Rail	at least 3 sides (to be specified by the user) to provide internationally available optical sights and
- Descollifo	Barrel life should be of minimum 15,000 rounds.
Barrel Barrel me	Procurement of optical sights with the wpn is not mandatory. To be
Optical Sight (Holographic / Reflex Sight)	decided by the user at the time of tendering
(a) Weight	Max weight of 400 gms alongwith mount, battery & LAD (Visible and IR).
(b) Field of View	Min 160° with both eyes open.
(c) Battery	Sight should be powered by means of commercially available rechargeable battery with the provision of switching on/off with a life of min 1000 operational hrs.
(d) Laser Pointers	Red dot and IR Laser (for covert ops) could be provided as a separate unit or can also be integrated with the main sight.
(e) Reticle	 (i) The reticle pattern in the display window must enable the firer to quickly and effectively engage targets. (ii) Should be parallax free.
	(iii) LED illuminated.(iv) Separate settings for adjustment of brightness of the reticle
	for day light. (v) Should have zeroing arrangements both vertical and horizontal planes.
Magazine	
(a) Capacity	20-30 rounds.
(b) Material	Magazine should be either metallic with side slots for ammunition indication or see through high strength polymer/composite magazine. Magazine should be robust enough to withstand rough usage under various environmental conditions. Should not get deforme under various environmental conditions.
	Color CAL PARAMETERS Length Picatinny Rail Barrel Barrel life Optical Sight (Holographic / Reflex Sight) (a) Weight (b) Field of View (c) Battery (d) Laser Pointers (e) Reticle Magazine (a) Capacity

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REVISED QRs/SPECIFICATIONS OF 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT) (Contd...)

S/No	Parameter	Specification
19.	Furniture	Should be made up of high strength polymers/composite/reinforced scratch
		proof plastic of high strength enabling environmental stability.
20.	Fore Hand Grip	Fore Hand Grip should be present in the carbine.
21.	Flip Up Sights	In addition to integrated holographic/reflex sight the carbine should have
		mechanical flip up sights.
22.	Sling	Carbine should have adjustable and robust carrying sling with quick
		detachment feature.
MISCE	LLANEOUS PAR	AMETERS
23.	Safety	Both mechanical & applied safety.
24.	Field Stripping	Weapon should be easily stripped without any tool or with minimum tools. &
_		all cleaning parts to be designed for field cleaning.
25.	Accessories	Manufacturer of the weapon should provide accessories to include:-
		(a) Tactical Light.
		(b) Laser Aiming Device.
		(c) Magazine
		(d) Field Cleaning kit.
		(e) Standard weapon tool kit.
		(f) Measurement gauge (Go & No go).
		(g) Filler gauge.
		(h) Firing pin protrusion gauge.
		(i) Maintenance manual in English.
		(k) Technical literature in English.
		(I) Training manuals & user hand book/Training slides/brochures/video
		films & CDs.
		La Contraction of the Contractio
		0 5 5 11 1 - 1 - 2 1 2 2 2 2 2 2 2 2 2 2 2 2
		(n) Recommended list of spares for 04 yrs for field level and base level repairs and spares backup must be assured for atleast 15 yrs
		field level.
		(p) Illustrated spare parts list.
		Note: The Quantity of each accessory to be specified by the user at the time
		of tendering.
26.	Training	In situ training for one week on operation, maintenance, fault finding and
	5.77	user level repairs at buyer's premises at their cost.

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REVISED TRIAL DIRECTIVES FOR 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT)

Ser No	Specifications	Parameters	Trial Directives
	Introduction.	The concept of Short Range Close Quarter Battle (CQB) weapon is that it should be light weight, robust, easy to use and modular.	To be physically checked by the BOO
PER	ATIONAL PARAMETERS		The DOO with gauge provided by
	Caliber	Weapon should be capable of firing 9 x 19 mm amn including indigenous OFB manufactured ammunition without any alterations or replacement of working parts to the carbine.	national / international accredited lab certifying the same.
}.	Weight of the Carbine	Weight without magazine, however with three picatinny rails should not be more than 3 kgs.	
1.	Firing Mode	 (a) Single and Automatic. (b) Suitable change lever to select firing mode. (c) Change lever should be positively locked to ensure that weapon fires in desired mode only when it is in designated position. 	
5	Effective Range	The weapon should be able to effectively incapacitate a human target at a range of 100 mtrs with aimed fire under normal conditions of visibility.	to:-
		1 De Line	the time the time the

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		Specifications Muzzle Velocity Rate of Fire Accuracy Reliability	REVIS
Afell Owns	Maula	Parameters 375 ± 10 m/s. Canned per minute cyclic rate of fire. (a) At 50 mtrs (single shot) – fire. (b) At 50 mtrs (short burst of two/three rounds) – All the rounds fired should hit within 15 cms x 15 cms area. (a) 1000 rounds test will be carried out. (b) Total Stoppages – Maximum one stoppage of Class I is permitted in a cycle of 200 rounds.	REVISED TRIAL DIRECTIVES FOR 9 X 19 MM CARBINE (CLOSE QUARTER BALLLE WEAR ON THE HOLOGRAPHIC SIGHT) (Contd)
	Wirk on the	OET OF	MM CARBINE (CLOSE QU. APHIC SIGHT) (Contd)
	The state of the s	DEM to provide certificate from a national/international accredited lab. OEM provide contact person details, phone number, address, e-mail address & webs conducted by the OEM ammunition. OEM to provide certificate from a national/international accredited lab. OEM of the lab. Authenticity of certificate must be confirmed by the BOO. Test will be contact person details, phone number, address, e-mail address & webs provide contact person details, phone number, address, e-mail address & webs of the lab. Authenticity of certificate must be confirmed by the BOO. The testing accuracy figure 11 target (40 cm × 70 cm) will be used & see to the lab. Authenticity of certificate must be confirmed by the BOO. The testing accuracy figure 11 target (40 cm × 70 cm) will be used & see to the lab. Sink shots will be considered out cf seven. Group size should be with the fired (short burst of two/three rounds in automatic mode) using shots will be fired (short burst of two/three rounds in automatic mode) using shots will be fired out during field functional trial & the firing warea. Accuracy test will be carried out during field functional trial & the firing will be carried out by the OEM ammunition. Accuracy test will be allowed to cool down for 10 minutes. (ii) Weapon will be allowed to cool down for 10 minutes. (iii) Weapon will be carried out during field functional trial & the firing will be carried out during field functional trial & the firing will be carried out during field functional trial & the firing will be carried out during field functional trial & the firing will be carried out during field functional trial & the firing will be carried out the lirers of the OEM. V/eapon will be fixed on a mount and fired. Tests will be carried out during field functional trial & the firing will be carried out by the OEM ammunition.	ARTER BALLE WERE
	I Carrotte	OEM to provide certificate from a national/international accredited lab. OEM to of the lab. Authenticity of certificate must be confirmed by the BOO. Test will be conducted by the OEM ammunition. CEM to provide certificate from a national/international accredited lab. OEM to OEM to provide certificate from a national/international accredited lab. OEM to OEM to provide contact person details, phone number, address, e-mail address & website provide contact person details, phone number, address, e-mail address & website of the lab. Authenticity of certificate must be confirmed by the BOO. For testing accuracy figure 11 target (40 cm × 70 cm) will be used & seven shots will be fired (in single shot mode) using the weapon (mounted on a fixed provide shots will be considered out cf seven. Group size should be within mount. Six shots will be considered out cf seven. Group size should be within the short burst of two/three rounds in automatic mode) using the shots will be fired (short burst of two/three rounds in automatic mode) using the weapon (mounted on a fixed mount). Group size should be within 15 cms x 15 cms weapon (mounted on a fixed out during field functional trial & the firing will be arried out by the OEM ammunition. Accuracy test will be allowed to cool down for 10 minutes. (ii) Weapon will be allowed to cool down for 10 minutes. (iii) Easts will be carried out during field functional trial & the firing will be carried out by the OEM. Veapon will be fixed on a mount and fired. Accuracy test will be conducted by the OEM ammunition. Accuracy test will be conducted by the OEM ammunition.	

REVISED TRIAL DIRECTIVES FOR 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT) (Contd....)

er	Specifications	Parameters	Trial Directives
0	Adverse Condition Test	(a) Sand Test.	(i) Weapon loaded and cocked with full magazine 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. The muzzle and breach end should be plugged
		(b) Water Test.	(ii) Weapon loaded and cocked with full magazine fully submerged in water for 10 minutes. Withdraw the weapon and fire (burst) within 3/5 seconds without cocking or draining the weapon. The carbine should be able to fire without any stoppages. The muzzle and preach end should be plugged.
		(c) Mud Test.	iii) Weapon loaded and cocked with full magazine fully submerged in mud for 10 minutes. Withdraw the weapon and fire (burst) within 3/5 seconds without cocking or draining the weapon. The carbine should be able to fire without any stoppages. The muzzle and breach end should be plugged.
		(d) Drop Test.	(i/) Drop the weapon with the cartridge (bullet an powder removed) from a height of 1.5 mtrs. Drog should be carried out on each fact (butt/barrel/left/right/top) each time with empty magazine and cartridge with primer in chamber. Primer to be checked if functional. Load filled magazine are fire to check if carbine works.
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REVISED TRIAL DIRECTIVES FOR 9 X 19 MW CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT) (Contd....)

Ser	Specifications	Parameters	
No		The second secon	OEM to provide certificate from a
-	Environmental Conditions		national/international accredited lab. OEM to
	(a) Operating	-40 Deg C to +55 Deg C.	provide contact person details, phone number, address, e-mail address & website of the lab.
and of the graph com	Temperature (b) Storage Temperature	-40 Deg C to +70 Deg C.	Authenticity of certificate must be confirmed by the BOO.
	(c) Humidity	95% RH at 25 Deg C.	To be demonstrated by OEM & physically checked
12	Designed for right & left handed use	The weapon should be capable of ambidextrous usage i.e provision of adjustment of the safety lever, magazine catch, fire selector and ejection porto suit both left hand & right hand firer.	by BOO.
13	Color	Black/olive green/desert pattern, to be specified by user at the time of tendering.	To be physically checked by BOO.
PHYS	PHYSICAL PARAMETERS		
14	Length	Overall Length - Not more than 720 mm.	To be physically checked by BOO.
15	Picatinny Rail	Mil Standard 1913 Picatinny Rail integrated with the weapon on at least 3 sides (to be specified by the user) to provide interfaces for accessories like internationally available optical lights (LAD)	To be physically checked by BOO.
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e) oint	Optical Sight (Holographic / Reflex Sight) (a) Weight	Specifications Barrel. Barrel Barrel
Min 160° with both eyes open. Sight should be powered by means of commercially available rechargeable sight should be powered by means of commercially available rechargeable sight should be provision of switching on/off with a life of min 1000 operational battery with the provision of switching on/off with a life of min 1000 operational battery with the provided as a separate unit or Red dot and IR Laser (for covert ops) could be provided as a separate unit or can also be integrated with the main sight. (i) The reticle pattern in the display window must enable the firer to quickly and effectively engage targets. Should be parallax free. (ii) Separate settings for adjustment of brightness of the reticle for day light. Should have zeroing arrangements both vertical and nonzontal planes. (v) Should have zeroing arrangements both vertical and inorizontal planes.	ith the wpn is not mandatory. To be decided by the the wpn is not mandatory. To be decided by the the wpn is not mandatory. To be decided by the the wpn is not mandatory. To be decided by the wpn is not mandatory. To be decided by the wpn is not mandatory. To be decided by the wpn is not mandatory.	REVISED TRIAL DIRECTIVES FOR 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGI Parameters Parameters Parameters OEM from accre providetai ife Barrel. Barrel Barrel Barrel Barrel be of minimum 15,000 rounds. Auth be c
	To be physically checked by the BOO.	WEAPON WITH HOLOGRAPHIC SIGHT) (Contd) Trial Directives OEM to provide certificate from a national/international from a national/international provide contact person provide contact person provide phone number, details, phone number, address, e-mail address & address, e-mail address & Authenticity of certificate must be confirmed by the BOO.

REVISED TRIAL DIRECTIVES FOR 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT) (Contd....)

	.1		24	<u>MIS</u>	22.	21.	3	19			18.	Ser	
		6.	Field Stripping	MISCELLANEOUS PARAMETERS 23. Safety B	Sling	Flip Up Sights	Fore Hand Grip	Furniture		(b) Material	Magazine (a) Capacity	Specifications	
THAT Orming	Panhay		with minimum tools, & all cleaning parts to be designed for field cleaning.	Both mechanical & applied safety. Weapon should be easily stripped without any tool or	with quick detachment feature.	In addition to integrated holographic/relies sights carbine should have mechanical flip up sights.	high strength enabling environmental stability. Fore Hand Grip should be present in the carbine.	prolonged firing or in hot weather conditions. Should be made up of high strength of high strength or in hot weather conditions.	polymer/composite magazine. Magazine should be robust enough to withstand rough usage under various environmental conditions. Should usage under various environmental to heat during the deformed when subjected to heat during	netallic with side ee through high	Capacity of 20-30 rounds.	Parameters	
				by BOO. To be demonstrated by OEM & physically checked by BOO.	-	-	To be physically checked by the BOO. To be physically checked by BOO.	To be physically checked by the BOO.	OEM to provide certificate.		To be physically checked by the BOO.	To be physically checked by the BOO.	Trial Directives

REVISED TRIAL DIRECTIVES FOR 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT) (Contd....)

Ser No	Specificati	Parameters	Trial Directives
25.	Accessories	Manufacturer of the weapon' should provide accessories to include: (a) Tactical Light. (b) Laser Aiming Device. (c) Magazine. (d) Field Cleaning kit. (e) Standard weapon tool kit. (f) Measurement gauge (Go & No go). (g) Filler gauge. (h) Firing pin protrusion gauge. (j) Maintenance manual in English. (k) Technical literature in English. (l) Training manuals & user hand book/Training slides/brochures/video films & CDs. (m) Manufacturers recommended list of spares duly priced. (n) Recommended list of spares for 04 yrs for field level and base level repairs and spares backup must be assured for atleast 15 yrs. (o) List of STEs / SMTs / Test Jigs for repair and testing of main eqpt at field level. (p) Illustrated spare parts list. Note: The Quantity of each accessory to be specified by the user at the time of tendering.	Individual accessories to be demonstrated by OEM & physically checked by the BOO.
26.	Training	In situ training for one week on operation, maintenance, fault finding and user level repairs at buyer's premises at their cost.	OEM to provide certificate for the same.

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