



QRs/SPECIFICATIONS OF 9MM PISTOL

S/No.	Parameter	Specification
1.	<b>Introduction.</b>	Pistol is a short range semi-automatic weapon used for personal security to cover the target at short ranges.
<b>OPERATIONAL PARAMETERS</b>		
2.	Caliber	9 mm X 19 mm.
3.	Ammunition Type	9 mm X 19mm Parabellum (OFB Manufactured), high power +P and +P+ ammunition, either with full metal jacket or hollow point projectile.
4.	Weight	Not more than 900gm with empty magazine and without accessories
5.	Height	Not more than 150mm with the sight mounted.
6.	Length	Not more than 210mm without sound suppressor.
7.	Firing Mode	(a) Semi-Automatic. (b) Single/Double Action.
8.	Compactness	Pistol should also have a compact version with greater concealability for special operations.
9.	Effective Range	Not less than 25 meters.
10.	Accuracy	At 25m the pistol should achieve group of 10cms
11.	Reliability	In a firing cycle of 1000 rounds, the pistol should not suffer more than two Class-I, one Class-II and Nil Class-III stoppages, which are classified as follows:- (a) <u>Class-I stoppage</u> – Can be removed by the firer within 10 seconds without the use of any tools/equipment/spares by using only immediate action drills. (b) <u>Class-II stoppage</u> – Can be removed by the firer in 10 seconds to 10 minutes using tools/equipment/spares issued with the weapon. (c) <u>Class-III stoppage</u> – Takes more than 10 minutes or special tools/equipment to rectify defects and resume firing.
12.	Adverse Condition Test	(a) Sand Test. (b) Water Test (c) Drop Test
13.	<b>Environmental Conditions</b>	
	(a) Operating Temperature	-30 degrees C to +50 degrees C.
	(b) Storage Temperature	-35 degrees C to +50 degrees C.
14.	Designed for right & left handed use	Should provide equal ease of usage for right and left handed firers.
15.	Last Bullet Stop	The slide should lock in the open position after the last round is fired from the magazine.
16.	Color	Black/ Olive Green/ Desert pattern, to be specified by user at the time of tendering.

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QRs/SPECIFICATIONS OF 9MM PISTOL (Contd.....)

S/No.	Parameter	Specification
<b>PHYSICAL PARAMETERS</b>		
17.	Indicator	Pistol should have loaded chamber indicator.
18.	Picatinny Rail	Mil Standard 1913 Picatinny Rail integrated with the weapon on the lower side to provide interface for accessories like internationally available Tactical lights and LAD.
19.	<b>Sound Suppressor</b>	Pistol should have a provision for attaching a sound suppresser (to be specified by the user at the time of tendering)
	(a) Calibre	9mm x 19 mm.
	(b) Length	Maximum up to 200 mm.
	(c) Weight	Maximum 310 gms.
	(d) Sound Suppression	Should be able to suppress sound by at least 30 dB.
	(e) Colour	Black/ Olive Green/ Desert pattern, to be specified by user at the time of tendering
20.	Sight	Pistol should have a combat sight with luminous dot facility for night firing.
21.	Tactical Light	(a) Should have provision for LED illumination of target in visible & IR. (b) Should be able to illuminate Fig 11 target at a range of 50 mtrs in pitch darkness. (c) Should not hinder normal operation/holstering of pistol when mounted. (d) Battery life of minimum 1 hour of illumination. (e) Should be able to quickly attach/detach
22.	Laser Aiming Device	(a) Should have provision for visible as well as IR aiming mark. (b) Should be laser grip type. (c) Laser aiming mark should be clearly visible on target at a distance of 50 metres. (d) Should not hinder normal operation/holstering of pistol when mounted. (e) Should be able to quickly attach/detach.
23.	Magazine Capacity	Minimum 15 rounds.
24.	Grip	Ergonomically designed for better grip and handling.
25.	Trigger	Should have 2 stage pull.
26.	Furniture	Should be made up of high strength polymers/composite/reinforced scratch proof plastic of high strength enabling environmental stability.
27.	Thigh Hip and Shoulder Holster	Holster should have secure and effective 'Thumb Break' to ensure quick drawing of pistol. The pistol should go inside the holster with all accessories mounted.

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QRs/SPECIFICATIONS OF 9MM PISTOL (Contd.....)

S/No.	Parameter	Specification
<b>MISCELLANEOUS PARAMETERS</b>		
28.	Safety	Pistol should have external applied safety and internal mechanical safety
29	Field Stripping	Pistol should be easily stripped without any tools & all cleaning parts to be designed for field cleaning.
30.	Life Cycle	15 years for weapon & barrel life minimum 20,000 rounds.
31	Accessories	<p>Manufacturer should provide accessories to include:-</p> <ul style="list-style-type: none"> <li>(a) Tactical Light</li> <li>(b) Laser Aiming Device</li> <li>(c) Sound Suppressor</li> <li>(d) Thigh/Hip/Shoulder Holster</li> <li>(e) Magazine – 3 with each pistol.</li> <li>(f) Field Cleaning kit (one with each pistol).</li> <li>(g) Standard weapon tool kit</li> <li>(h) Measurement gauge (Go &amp; No go)</li> <li>(j) Filler gauge</li> <li>(k) Firing pin protrusion gauge</li> <li>(l) Rigid water proof case for transit of weapon</li> <li>(m) Maintenance manual in English</li> <li>(n) Technical literature in English</li> <li>(o) Training manuals &amp; user hand book</li> <li>(p) Manufacturers recommended list of spares duly priced</li> <li>(q) Training slides, brochures, video films &amp; CDs</li> </ul> <p>Note: The quantity and type of accessories to be specified at the time of tendering by the user.</p>
32.	Training	In situ training for one week on operation, maintenance, fault finding and user level repairs.

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 (Anish Chaturvedi)  
 Asstt. Dir. (W)

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 CAPT V. AWASHI  
 SI SAG

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 Capt J. Kumar  
 Project Officer, NSG

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 Major Anish Chaturvedi  
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 (V.K. Sharma)  
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**TRIAL DIRECTIVES FOR 9MM PISTOL**

**Trial Directives:**

**Parameters**

to cover the target at short ranges

Ser No	Specifications	Parameters
1.	<p><b>Introduction.</b> Pistol is a short range semi-automatic weapon used for personal security</p> <p><b>OPERATIONAL PARAMETERS</b></p>	<p>To be physically checked by BOO. OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail address &amp; website of the lab. Authenticity of certificate must be confirmed by the BOO.</p>
2.	<p>Caliber</p>	<p>To be physically checked by the BOO by firing each type of ammunition from the weapon, ammunition to be provided by the OEM. OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail address &amp; website of the lab. Authenticity of certificate must be confirmed by the BOO.</p>
3.	<p>Ammunition Type</p>	<p>To be physically checked by BOO by firing the weapon at the range.</p>
4.	<p>Weight</p>	<p>To be physically checked by the BOO.</p>
5.	<p>Height</p>	<p>To be physically checked by the BOO.</p>
6.	<p>Length</p>	<p>To be physically checked by BOO by firing the weapon at the range.</p>
7.	<p>Firing Mode</p>	<p>OEM to provide sample weapon and to be physically checked by the BOO.</p>
8.	<p>Compaciness</p>	<p>OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail address &amp; website of the lab. Authenticity of certificate must be confirmed by the BOO.</p>
9.	<p>Effective Range</p>	<p>Authenticity of certificate must be confirmed by the BOO.</p>

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**TRIAL DIRECTIVES FOR 9MM PISTOL (Contd....)**

Ser No	Specifications	Parameters	Trial Directives
10	Accuracy	At 25m the pistol should achieve group of 10cms.	(i) For testing accuracy figure 1 target will be used. Seven shots will be fired (in single shot mode) using the weapon (mounted on a fixed mount). Six shots will be considered out of seven. Size of group should be 10cm or less. (ii) OEM to provide firer, ammunition, target, mount and vice.
11	Reliability	in a firing cycle of 1000 rounds, the weapon not suffer more than two Class-I, one Class-II and Nil Class-III stoppages, which are classified as follows:- (a) Class-I stoppage – Can be removed by the firer within 10 seconds without the use of any tools/equipment/spares by using only immediate action drills. (b) Class-II stoppage – Can be removed by the firer in 10 seconds to 10 minutes using tools/equipment/spares issued with the weapon. (c) Class-III stoppage – Takes more than 10 minutes or special tools/equipment to rectify defects and resume firing.	To be physically checked by the BOO. (i) Firing of 1000 rounds will be done in five cycles of 200 rounds each, using two sample weapons of each firm. (ii) 200 rounds will be fired continuously within duration of 10 minutes. (iii) After firing 200 rounds, a gap of 5 minutes will be given for cooling of the weapon. (iv) No cleaning/maintenance are permitted during this test. This excludes actions done to remove stoppages. (v) Ammunition and firer will be provided by the respective OEM. (vi) Time will be recorded by the BOO using stop watch.

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TRIAL DIRECTIVES FOR 9MM PISTOL (Contd....)

Ser No	Specifications	Parameters	Trial Directives
12.	Adverse Condition Test	(a) Sand Test. (b) Water Test. (c) Drop Test	(i) Weapon loaded and cocked with full magazine (15 rounds) buried and fully covered in sand for 10 minutes with muzzle cap. Remove from sand and fire. The weapon should be able to fire all rounds (single shot) without any stoppages within duration of 2 minutes. (ii) Weapon loaded and cocked with full magazine (15 rounds) fully submerged in water for 10 minutes. Withdraw the weapon and fire within 2 minutes without cocking the weapon. The weapon should be able to fire without any stoppages. (iii) Drop the weapon (bullet and powder removed) from a height of 1.5 mtrs on a hard surface. Drop should be carried out on each face (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 and be fired to check if it works.
13.	<u>Environmental Conditions</u> (a) Operating Temperature (b) Storage Temperature	-30 degrees C to +50 degrees C. -35 degrees C to +50 degrees C.	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.

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**TRIAL DIRECTIVES FOR 9MM PISTOL (Contd....)**

Ser No	Specifications	Parameters	Trial Directives
14.	Designed for right & left handed use	Should provide equal ease of usage for right and left handed firers.	To be demonstrated by OEM & physically checked by BOO.
15.	Last Bullet Stop	The slide should lock in the open position after the last round is fired from the magazine	To be physically checked by the BOO by loading the filled magazine and firing the weapon till magazine is empty.
16.	Color	Black/ Olive Green/ Desert pattern, to be specified by user at the time of tendering.	To be demonstrated by OEM & physically checked by BOO.
<b>PHYSICAL PARAMETERS</b>			
17.	Indicator	Pistol should have loaded chamber indicator.	To be physically checked by BOO
18.	Picatinny Rail	Mil Standard 1913 Picatinny Rail integrated with the weapon on the lower side to provide interface for accessories like internationally available Tactical lights and LAD.	To be physically checked by BOO.
19.	<b>Sound Suppressor</b>	Pistol should provision for detachable sound suppresser.	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.
	(a) Calibre	9mm x 19mm.	
	(b) Length	Maximum up to 200 mm.	
	(c) Weight	Maximum 310 gms.	

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**TRIAL DIRECTIVES FOR 9MM PISTOL (Contd....)**

**Trial Directives**

Ser No	Specifications	Parameters	Trial Directives
22	Laser Aiming Device	(a) Should have provision for visible as well as IR aiming mark. (b) Should be laser grip type. (c) Laser aiming mark should be clearly visible on target a distance of 50 metres. (d) Should not hinder normal operation/holstering of pistol when mounted. (e) Should be able to quickly attach/detach. Minimum 15 rounds.	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.
23	Magazine Capacity	Ergonomically designed for better grip and handling. Should have 2 stage pull.	To be physically checked by the BOO.
24	Grip	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.
25	Trigger	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.
26	Furniture	Should be made up of high strength polymers/composite/reinforced scratch proof plastic of high strength enabling environmental stability.	To be demonstrated by OEM & physically checked by the BOO.
27	Thigh, Hip and Shoulder Holster	Holster should have secure and effective 'Thumb Break' to ensure quick drawing of pistol. The pistol should go inside the holster with all accessories mounted.	To be demonstrated by OEM & physically checked by the BOO.
<b>MISCELLANEOUS PARAMETERS</b>		Pistol should have external applied safety and internal mechanical safety.	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.
28	Safety	Pistol should have external applied safety and internal mechanical safety.	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.

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TRIAL DIRECTIVES FOR 9MM PISTOL (Contd....)

Ser No	Specifications	Parameters	Trial Directives
29.	Field Stripping	Pistol 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.
30.	Life Cycle	15 years for weapon & barrel life minimum 20,000 rounds.	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.
31	Accessories	<p>Manufacturer should provide accessories to include:-</p> <ul style="list-style-type: none"> <li>(a) Tactical Light</li> <li>(b) Laser Aiming Device</li> <li>(c) Sound Suppressor</li> <li>(d) Thigh/Hip/Shoulder Holster</li> <li>(e) Magazine – 3 with each pistol.</li> <li>(f) Field Cleaning kit (one with each pistol).</li> <li>(g) Standard weapon tool kit</li> <li>(h) Measurement gauge (Go &amp; No go)</li> <li>(j) Filler gauge</li> <li>(k) Firing pin protrusion gauge</li> <li>(l) Rigid water proof case for transit of weapon</li> <li>(m) Maintenance manual in English</li> <li>(n) Technical literature in English</li> <li>(o) Training manuals &amp; user hand book</li> <li>(p) Manufacturers recommended list of spares duly priced</li> <li>(q) Training slides, brochures, video films &amp; CDs</li> </ul> <p><b>Note:</b> The quantity and type of accessories to be specified at the time of tendering by the user.</p>	Individual accessories to be demonstrated by OEM & physically checked by the BOO.

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TRIAL DIRECTIVES FOR 9MM PISTOL (Contd....)

Ser No	Specifications	Parameters	Trial Directives
32.	Training	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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