




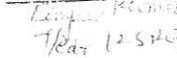
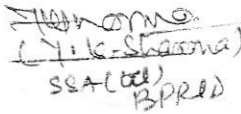


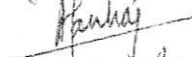
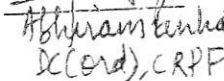

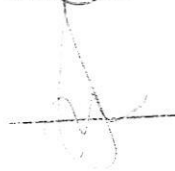





REVISED QRs/SPECIFICATIONS OF 9 X 19 MM CARBINE (CLOSE QUARTER BATTLE WEAPON WITH HOLOGRAPHIC SIGHT)

| S/No | Parameter | Specification |
|-------------------------------|---------------------------|---|
| 1. | Introduction. | The concept of Short Range Close Quarter Battle (CQB) weapon is that it should be light weight, robust, easy to use and modular. |
| OPERATIONAL PARAMETERS | | |
| 2. | 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. |
| 3. | Weight of the Carbine | Weight without magazine, however with three picatinny rails should not be more than 3 kgs. |
| 4. | 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. |
| 6. | Muzzle Velocity | 375 ± 10 m/s |
| 7. | Rate of Fire | 800 rounds per minute cyclic rate of fire. |
| 8. | Accuracy | (a) At 50 mtrs (single shot) – Group size should be within 8 cms x 8 cms. (b) At 50 mtrs (short burst of two/three rounds) – All the rounds fired should hit within 15 cms x 15 cms area. |
| 9. | Reliability | (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. |
| 10. | Adverse Condition Test | (a) Sand Test. (b) Water Test. (c) Mud Test. (d) Drop Test. |
| 11. | Environmental Conditions | |
| | (a) Operating Temperature | -40 Deg C to +55 Deg C. |
| | (b) Storage Temperature | -40 Deg C to +70 Deg C. |
| | (c) Humidity | 95% RH at 25 Deg C. |

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

| S/No | Parameter | Specification |
|----------------------------|--|---|
| 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 port to suit both left hand & right hand firer. |
| 13. | Color | Black/olive green/desert pattern, to be specified by user at the time of tendering. |
| PHYSICAL PARAMETERS | | |
| 14. | Length | Overall Length – Not more than 720 mm. |
| 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 sights and Tactical lights/LAD. |
| 16. | <u>Barrel</u> Barrel life | Barrel life should be of minimum 15,000 rounds. |
| 17. | <u>Optical Sight</u> (Holographic / Reflex Sight) | Procurement of optical sights with the wpn is not mandatory. To be 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. |
| 18. | <u>Magazine</u> | |
| | (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 deformed when subjected to heat during prolonged firing or in hot weather conditions. |

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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 |
|-------------------------------|-----------------------|---|--|
| 1. | <u>Introduction.</u> | 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. |
| OPERATIONAL PARAMETERS | | | |
| 2. | 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. | To be physically checked by BOO with gauge provided by the OEM. OEM to also provide a certificate from a national / international accredited lab certifying the same. |
| 3. | Weight of the Carbine | Weight without magazine, however with three picatinny rails should not be more than 3 kgs. | To be physically checked by BOO. |
| 4. | 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. | To be physically checked by BOO. |
| 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. | The ammunition fired by the 9 mm Carbine should be able to :- (a) Incapacitate personnel without body armour protection upto 100m. (b) Personnel wearing soft armour panel (24 layers of Kevlar armour at 5m) Both the parameters are vital for evaluation of fire arm and may be tested in the field based on the energy of bullet at 100 mtrs from muzzle and actual testing on 24 layers of defined Kevlar armour at 5 mtrs. |

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

| Ser No | Specifications | Parameters | Trial Directives |
|--------|------------------------|--|--|
| 10. | Adverse Condition Test | (a) Sand Test. (b) Water Test. (c) Mud Test. (d) Drop 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 (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 breach end should be plugged. (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. (iv) Drop the weapon with the cartridge (bullet and powder removed) from a height of 1.5 mtrs. 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 fire to check if carbine works. |

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

| Ser No | Specifications | Parameters | Trial Directives |
|----------------------------|--|--|---|
| 11. | Environmental Conditions (a) Operating Temperature (b) Storage Temperature (c) Humidity | -40 Deg C to +55 Deg C. -40 Deg C to +70 Deg C. 95% RH at 25 Deg 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. |
| 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 port to suit both left hand & right hand firer. | To be demonstrated by OEM & physically checked 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. |
| 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 sights and Tactical lights/LAD. | To be physically checked by BOO. |

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

| Ser No | Specifications | Parameters | Trial Directives |
|--------|---|--|--|
| 16. | Barrel life | Barrel life should be of minimum 15,000 rounds. | OEM to provide certificate from a national/international accredited lab. OEM to provide contact person details, phone number, address, e-mail & website of the lab. Authenticity of certificate must be confirmed by the BOO |
| 17. | Optical Sight (Holographic / Reflex Sight) (a) Weight (b) Field of View (c) Battery (d) Laser Pointers (e) Reticle | <p>Procurement of optical sights with the wpn is not mandatory. To be decided by the user at the time of tendering</p> <p>Max weight of 400 gms alongwith mount, battery & LAD (Visible and IR)</p> <p>Min 160° with both eyes open.</p> <p>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.</p> <p>Red dot and IR Laser (for covert ops) could be provided as a separate unit or can also be integrated with the main sight</p> <p>(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.</p> | To be physically checked by the BOO. |

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

| Ser No | Specifications | Parameters | Trial Directives |
|---------------------------------|--|---|---|
| 18. | Magazine (a) Capacity (b) Material | Capacity of 20-30 rounds. 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 deformed when subjected to heat during prolonged firing or in hot weather conditions. Should be made up of high strength polymers/composite/reinforced scratch proof plastic of high strength enabling environmental stability. Fore Hand Grip should be present in the carbine. In addition to integrated holographic/reflex sight the carbine should have mechanical flip up sights. Carbine should have adjustable and robust carrying sling with quick detachment feature. | To be physically checked by the BOO. To be physically checked by the BOO. OEM to provide certificate. To be physically checked by the BOO. |
| MISCELLANEOUS PARAMETERS | | | |
| 23. | Safety | Both mechanical & applied safety. | To be demonstrated by OEM & physically checked by BOO |
| 24 | Field Stripping | Weapon should be easily stripped without any tool 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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