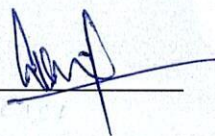


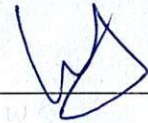

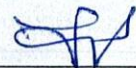


QUALITATIVE REQUIREMENT (QRs) AND TRIAL DIRECTIVE (TDs) OF
SNIPER RIFLE (BOLT ACTION): 15 Jul 2025


| Sl.No | Parameters | Specification/QRs | Trial Directives (TDs) |
|-------------------------------|----------------------------|--|--|
| OPERATIONAL PARAMETERS | | | |
| 1. | Caliber | 7.62 X 51mm | To be physically checked by BOO with calibrated gauge provided by OEM. Calibration certificate to be checked by BOO. |
| 2. | Weight of the Sniper Rifle | Should not exceed 8 kgs without Magazine & Telescopic Sight | To be physically checked by BOO. |
| 3. | Length of weapon | Length of weapon with extended Butt including muzzle break OR flash suppressor should not exceed 1250mm. | To be physically checked by BOO. |
| 4. | Firing Mode | Single Shot Bolt Action | To be physically checked by the BOO. |
| 5. | Effective Range | 800mtrs or better | (a) Weapon should be able to penetrate 08mm plywood sheet at a range of 800mtrs and 4.2mm mild steel plate (hardness 120-150BHN) at a range of 550 mtrs. (b) Four rounds out of five should hit the target at 800 and 550 mtrs. (c) The plywood & metal plate mentioned above will be provided by the tendering agency on payment basis. |
| 6. | Accuracy | Should be able to achieve group size of 3cm x 3cm for 5 shots at 100 meters. | (i) When 5 rounds of ammunition provided are fired by firer or from fixed mount at 100 meters, all hits should be in a group size of 3 cm x 3 cm. (ii) Accuracy test will be conducted with in-service ammunition provided by Tendering agency on payment basis. Firer and target to be provided by the OEM. (iii) All weapons will be zeroed from 100m prior to commencement of trials. (iv) Maximum three attempts will be provided to each firm. (v) The use of spotter will be permitted along with the shooter. The OEM will also provide details of telescope used by the spotter. |










| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|--------|---------------------------------|--|---|
| 7. | Reliability | <p>(a) In firing of 100 rounds, it should not suffer from more than two 'Class-I' or 'Class-II' and NO 'Class-III' stoppages. The test is to be carried out as per TOP 3-2-045.</p> <p>(b) Stoppages are classified as under: -</p> <p>(i) Class I Stoppage – Can be removed by the firer within 10 seconds without use of any tools, equipment or spares by immediate action procedures.</p> <p>(ii) Class II Stoppage – Can be removed by firer in 10 seconds to 10 minutes with tools, equipment or spares issued with the weapon.</p> <p>(iii) Class III Stoppage - Takes more time than 10 minutes or special tools/spares to rectify defects and to resume firing by the firer.</p> | <p>(i) The test is to be carried out as per TOP 3-2-045.</p> <p>(ii) To be physically checked by the BOO.</p> |
| 8. | Operating & Storage temperature | <p>Sniper rifle should be capable of trouble free operation under following conditions:</p> <p>(a) Operating Temperature: -30° C to +55° C</p> <p>(b) Storage Temperature: -35° C to +55° C</p> <p>(c) Humidity : 95% RH</p> | <p>(i) OEM to provide certificate from any NABL accredited lab/NFSU/ DRDO labs/DGQA/any Govt. lab/ 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.</p> <p>(ii) The certificate will remain valid for 05 years from the date of its issue.</p> |



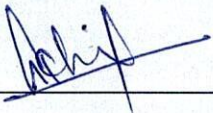





















| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|----------------------------|--|--|---|
| 9. | Environmental Tests | Sniper Rifle should be robust as per relevant portions of JSG0131-2021. (a) Water Immersion Test. (b) Mud Test. (c) Sand & Dust Test. (d) Rain Test. (e) Drop Test. (f) Humidity Test. (g) Salt Water Test. | (i) OEM to provide certificate from any International/ NABL accredited lab/NFSU/ DRDO labs/DGQA/ Govt. lab. OEM to provide contact person details, phone number, address, e-mail address & website of the lab. Authenticity of certificate to be confirmed by the BOO. (ii) The certificate will remain valid for 05 years from the date of its issue. |
| 10. | Designed for right & left handed use | Sniper should be capable of ambidextrous usage. | To be demonstrated by OEM and physically checked by the BOO. |
| 11. | Color | Choice of Black, Olive Green or Desert pattern, to be specified by user at the time of tendering | To be physically checked by the BOO at the time of Pre Dispatch Inspection (PDI). |
| PHYSICAL PARAMETERS | | | |
| 12. | Muzzle Break/ Flash suppressor (Optional- to be specified by user) | Sniper rifle should be equipped with integrated or detachable muzzle break/Flash suppressor. Accuracy of the sniper rifle will be evaluated separately with muzzle break/Flash suppressor if it is detachable. | To be physically checked by BOO. |
| 13. | Sound Suppressor (Optional- To be specified by user) (a) Caliber | Sniper rifle should be equipped with integrated or detachable sound suppressor which conforms to the caliber of the weapon system | To be physically checked by BOO. |

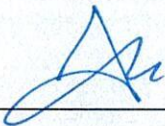








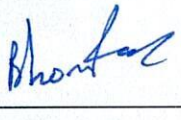
| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|--------|---------------------------|---|--|
| | (b) Capability | Suppressor should be able to suppress sound by at least 30dB. | OEM to provide certificate from a national/ international accredited lab. OEM to provide contact person details, phone number, address, e-mail address & website of the lab authenticity of certificate must be confirmed by the BOO. |
| | (c) Accuracy Test | Accuracy of the sniper rifle will be carried out with & without suppressor. Point of impact shift when firing with the suppressor should not be more than 5 cm at 100m. | (i) Accuracy test method will be same as mentioned in Para 5 above. (ii) The BOO will first check the accuracy of the sniper rifle without the sound suppressor. (iii) Then test will be conducted with the sound suppressor to ascertain the point of impact shift. Point of impact shift when firing with the suppressor should not be more than 5 cm at 100m. |
| | (d) Number of Suppressors | Number of suppressors to be supplied will be specified by the user at the time of tendering | To be physically checked by BOO. |
| | (e) Weight | Weight of suppressor should not be more than 900 gms. | To be physically checked by BOO. |
| | (f) Color | Choice of Black, Desert pattern or Olive Green to be specified by user at the time of tendering. | To be physically checked by the BOO at the time of Pre Dispatch Inspection (PDI). |
| 14. | Picatinny Rail | MIL STD 1913 Picatinny Rail integrated with the weapon on 12 & 6 'O' clock position for fitting either in-line sights (day/night) & to provide interfaces for accessories. Picatinny rail at 12 'O' clock position should have the provision for mounting clip-on sight in addition to the basic sight of the weapon. | To be physically checked by BOO. |

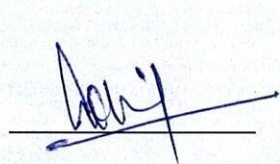
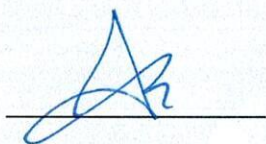
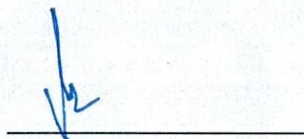
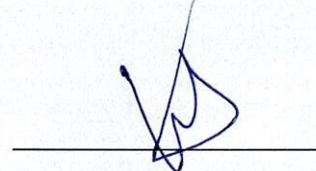






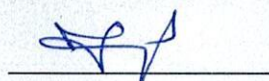
| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|--------|-----------------------------------|--|---|
| 15. | Service life of weapon | Sniper Rifle should have minimum service life of 15 years or 10000 rounds whichever is earlier. | OEM to provide self certificate for service life. OEM to provide undertaking for provision of spare support for the entire service life of the weapon. |
| 16. | Barrel: (a) Barrel Type | Rifle should have free floated barrel suitably fluted for heat dissipation. Muzzle should have adequate arrangement for easy & quick attachment of sound suppressor, and muzzle brake if required. | To be physically checked by BOO. |
| | (b) Barrel Rifling | Barrel should be rifled | OEM to provide certificate regarding number of grooves and twist. |
| | (c) Barrel life | Sniper rifle should have a barrel life of minimum 10,000 rounds. | (i) OEM to provide certificate from any NABL/ international/ DGQA/ NFSU/ Govt lab. (ii) OEM to provide contact person details, phone No, address, e-mail address and web site of the lab. (iii) Authenticity of the certificate must be confirmed by the BOO. |
| 17. | Magazine (detachable) | | |
| | (a) Capacity | Capacity of 5 rounds or more | To be physically checked by BOO. |
| | (b) Material | Magazine should be made up of steel with non corrosive surface treatment/ Fiber Reinforced Plastic. | OEM to provide certificate. |
| | (c) Weight | Weight of empty magazine should not be more than 70gms | To be physically checked by BOO. |
| 18. | Trigger | | |
| | Stage | Should have 2 stage pull. | To be physically checked by the BOO. In addition OEM to provide certificate. |




| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|--------|--|---|--|
| 19. | Butt | Butt of the rifle should be foldable or detachable with height adjustable cheek pad. | To be physically checked by the BOO. |
| 20. | Bipod | Bipod should be quick detachable, adjustable in terms of height. Legs of the bipod should be foldable (front or rearwards) & should be cocked when folded. | To be physically checked by the BOO. |
| 21. | Monopod (Optional- User to specify) | Monopod should be present either as butt spike or integrated with pistol grip to enable the firer to rest the rifle and continue to aim/observe the target. The same should be adjustable for height. | To be physically checked by the BOO. |
| 22. | Bolt Configuration | Bolt should have minimum of two forward located locking lugs. | To be physically checked by the BOO. |
| 23. | Sling | Sniper rifle should have adjustable and robust carrying sling with attachment facilitating quick detachment. Attachment should support sling supported carrying/ shooting technique. | To be demonstrated by OEM and physically checked by the BOO. |
| 24. | Optical Sight (a) The sniper rifle should be provided with an integrated optical sight for day/night and low light condition. Both Day/Night sight should be integrated into one unit with:- | | To be physically checked by the BOO |
| | | (i) Weight - Not more than 2kg. | To be physically checked by the BOO |
| | | (ii) Day Night shift through manual lever/switch. | To be physically checked by the BOO |
| | | (iii) Operating Temperature between -20° to +55° C | OEM to provide certificate from a national/international/NABL/Govt./ DGQA lab. To be physically checked by the BOO |

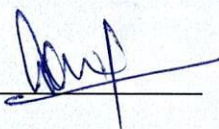

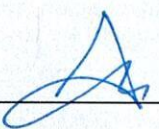
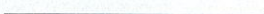


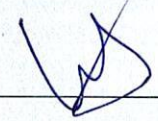
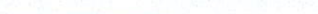









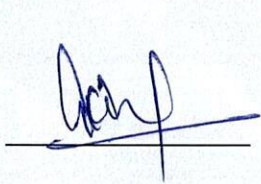
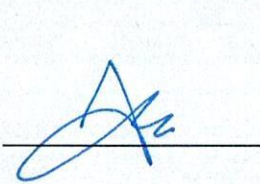
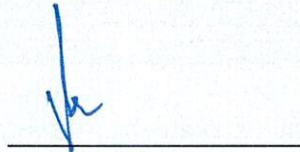
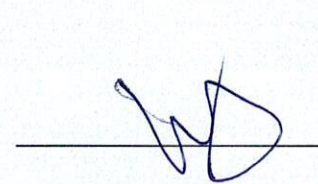
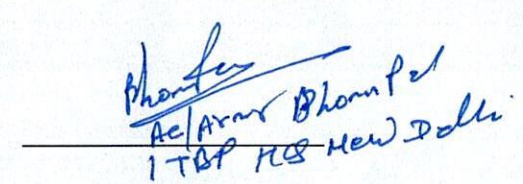




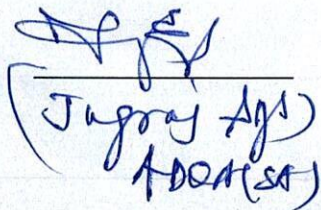
| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|--------|---------------------------------------|--|--|
| | | (iv) Range finder with minimum 1000m range | OEM to provide certificate from a national/ international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (v) Bright source protection | To be physically checked by the BOO |
| | | (vi) Power source-3 Volt Lithium ion battery | To be physically checked by the BOO |
| | | (vii) Low voltage Battery indicator in FoV | To be physically checked by the BOO |
| | | (viii) Battery life- Min 30 Hour | To be physically checked by the BOO |
| | | (ix) Water Resistant | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (x) Colour- Olive Green/Black | To be physically checked by the BOO |
| | | (xi) Rugged construction to withstand use in field conditions | To be physically checked by the BOO |
| | | (xii) Rugged FRP carrying case | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (xiii) Defecating chamber/assembly for prevention of moisture. | To be physically checked by the BOO |
| | | (xiv) Reticule- Cross or dot | To be physically checked by the BOO |
| | (b) Day Sight should have/be:- | | |
| | | (i) Eye relief- 60mm min | To be demonstrated by OEM & physically checked by the BOO |
| | | (ii) Diopter adjustment- ± 5 dpt | To be physically checked by the BOO |
| | | (iii) Field of view- 1.5° to 3° | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (iv) Magnification- 8 x or more | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (v) Range focus- 25m to infinity | To be demonstrated by OEM & physically checked by the BOO |
| | | (vi) Repurgeable and nitrogen filled | To be demonstrated by OEM & physically checked by the BOO |

| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|---------------------------------|--|---|---|
| | (c) <u>Night Sight should have/be:-</u> | | |
| | | (i) Image Intensifier Tube- Supergen or better | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (ii) Detection Range- 200M min | To be demonstrated by OEM & physically checked by the BOO |
| | | (iii) Recognition Range- 150M min | To be demonstrated by OEM & physically checked by the BOO |
| | | (iv) Magnification- Min 8x | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (v) Field of view- 1.5° to 3° | OEM to provide certificate from a national/international/ NABL/Govt./ DGQA lab. To be physically checked by the BOO |
| | | (vi) Diopter adjustment- ± 5 dpt | To be physically checked by the BOO |
| | | (vii) Range focus- 25m to infinity | To be demonstrated by OEM & physically checked by the BOO |
| | | (viii) Repurgeable and nitrogen filled | To be demonstrated by OEM & physically checked by the BOO |
| | | (ix) Eye relief- 60mm min | To be demonstrated by OEM & physically checked by the BOO |
| MISCELLANEOUS PARAMETERS | | | |
| 25. | Safety | Both mechanical & applied safety | To be demonstrated by OEM and physically checked by the BOO. |
| 26. | Field Stripping | Rifle should be easy to strip without any tools or with minimum tools & all cleaning parts to be designed for field cleaning. | To be demonstrated by OEM and physically checked by the BOO. |

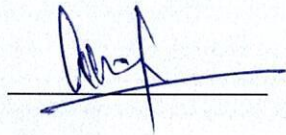
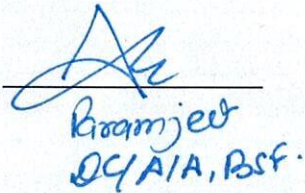






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Ac/Armr Phanfer
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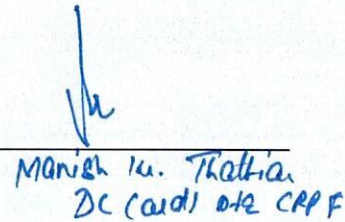


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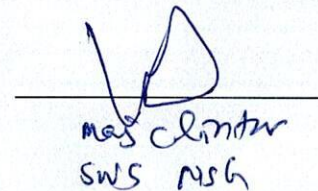
| Sl. No | Parameters | Specification/QRs | Trial Directives (TDs) |
|--------|-------------|--|---|
| 27. | Accessories | <p>Manufacturer of the sniper rifle should provide accessories to include:-</p> <p>(a) Two spare magazine.</p> <p>(b) Sound Suppressor cleaning kit (one with each suppressor – Optional) (user to specify)</p> <p>(c) Field cleaning kit (one with each rifle)</p> <p>(d) CHS, Barrel bore, Barrel straightness and Firing pin protrusion gauge (GO & NO GO) to be provided. (Quantity to be specified by the user)</p> <p>(e) Rigid water resistant case for transit of weapon (one with each rifle.</p> <p>(f) Drag bag (one with each rifle)</p> <p>(g) Training manuals & user hand book in Hindi and English (one with each rifle).</p> <p>(h) Manufacturers recommended list of spares duly priced</p> <p>(j) Training slides, brochures, video films & CDs (to be specified by the user)</p> | Individual accessories to be demonstrated by OEM and physically checked by the BOO. |

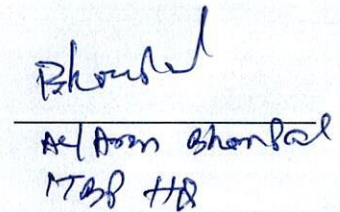
Pramjeet
DC/AIA, BSF.



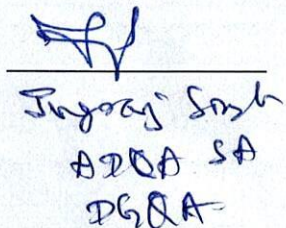
Manish K. Thakia
DC (card) Dte CRPF



Mas Clinton
SWS NSG



Ashwini Ghoshal
MTS/HB



Jyoti Singh
ADDA SA
DGQA