

**INVITATION OF VENDOR COMMENTS ON REVISED  
DRAFT QR/ TDs OF 7.62 X 39MM ASSAULT RIFLE**

1. It is intimated that firms/ vendors' comments are invited on the revised draft QRs/ TDs of 7.62 x 39mm Assault Rifle. All firms are requested to offer their comments alongwith **OEM certificate** on e-mail address scord@nsg.gov.in or gcproc@nsg.gov.in in under mentioned format.

QRs	TDs	Comments by the firm
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2. You are requested to offer comments within 15 days from the date of uploading on the website. The QR/ TDs of above mentioned equipment/ weapon are being considered by sub group committee meeting for finalization.

दिनांक : 02 मई 2025



(के. डी. घोरपड़े)

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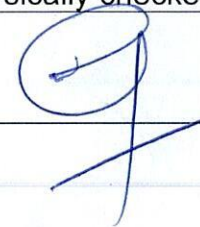
**QUALITATIVE REQUIREMENT (QRs) AND TRIAL DIRECTIVE (TDs) OF**  
**7.62 x 39 MM ASSAULT RIFLES**

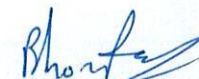
Sl.No	Parameters	Specification/QRs	Trial Directives(TDs)
1.	Calibre	7.62mm	OEM to provide self certificate. BOO to physically check the calibre with gauge provided by the OEM.
2.	Ammunition	The Assault Rifle should be able to fire/operate with following types of 7.62 X 39mm Ammunition: (a) Ball (b) Tracer (c) Blank	(i) Compatible with 7.62mm x 39mm Indian In-service ammunition.  (ii) Tendering agency to specify in-service ammunition and make it available for trial testing on payment basis.
3.	Type of Fire	Automatic/ Semi automatic	To be physically checked by BOO
4.	Cyclic rate of fire	600 Round/minute Minimum	(i) As per Para 5.1.2.4 of JSG 0131: 2021.  (ii) 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.  (iii) The certificate will remain valid for 05 years from the date of its issue. The testing of weapon (national level) for issue of fresh certificate/ renewal after expiry of the validity period of certificate may be facilitated by tendering agency during STEC, if required.
5.	Overall Length- Butt retracted/ Folded/Fixed	Folded/retracted- Not more than 750 mm Extended/Fixed- Not more than 950 mm (including muzzle attachment and excluding Bayonet)	To be physically checked by BOO
6.	Operation	Gas	To be physically checked by BOO
7.	Locking	Rotating Bolt	To be physically checked by BOO







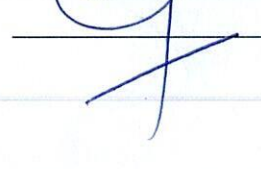


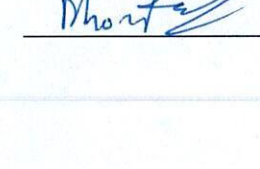














Sl.No	Parameters	Specification/QRs	Trial Directives(TDs)
8.	Weight of the Rifle with empty magazine (Including muzzle attachment picatinny rail and cleaning rod) Excluding Bayonet & Sight	The weight of weapon (including picatinny rails, Flash suppressor and excluding bayonet) with empty magazine should not exceed 4.0kg.	To be physically checked by BOO
9.	Barrel	Chromium Plated	To be physically checked by BOO
10.	Ejection Pattern	Front angular 15° to 75°	To be physically checked by BOO
11.	Safety Selector Switch	Three Positions- Safe, Single & auto	To be physically checked by BOO
12.	Safety	(a) In-built safety to avoid accidental fire (b) The design of change lever should ensure that weapon fires in the desired mode only, when change lever is in its designated position.	To be physically checked by BOO
13.	Rifling	4 Grooves (Minimum)	To be physically checked by BOO
14.	Life of Barrel	Assault Rifle should have a minimum barrel life of 15000 rounds/ 15 years whichever is earlier.	(i) OEM to provide certificate from any NABL/ international/ DGQA/ NFSU/ Govt lab. (ii) Authenticity of the certificate must be confirmed by the BOO.
15.	Environmental Conditions & Ruggedness Tests.	Assault 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) Low Temperature Test (Storage & Operation). (g) High Temperature Test (Storage & Operation). (h) Humidity Test. (j) 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. The testing of weapon (national level) for issue of fresh certificate/ renewal after expiry of the validity period of certificate may be facilitated by tendering agency during STEC, if required.














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16.	Shine and colour of the furniture/ Metal	Black with matte finish without shine. (Tendering agency to specify different colour, if required)	To be physically checked by BOO
17.	Furniture	(a) Butt stock Assembly (i) Fixed- FRP/Metallic (ii) Folded/retractable-FRP/ Metallic	To be physically checked by BOO Visual inspection of the furniture with observation, if any to be recorded.
		(b) Guard hand (i) Upper- FRP (ii) Lower- FRP	To be physically checked by BOO. Visual inspection of the furniture with observation, if any to be recorded.
		(c) Pistol grip- FRP	To be physically checked by BOO
		(d) Magazine- Metallic/ FRP (To be specified by the user in the TE)	To be physically checked by BOO
18.	Magazine	Rifle must be provided with robust magazine with a capacity of not less than 30 rounds.	To be physically checked by BOO
19.	Effective Range	300 meters or more	(a) 3.5mm Mild Steel Plate 4' x 4' Target will be placed at 300m. (b) Three weapons in unfolded butt condition will be evaluated for the parameter. (c) Seven (07) out of ten (10) rounds should hit on 4' x4' target. (d) Rifles may be fired from a fixed mount after zeroing. (e) Additional rounds will be given in case of misfire. (f) Maximum of three attempts will be provided. (g) Temperature should be between minus 20°C and plus 45°C. Same will be recorded. (h) 3.5mm MSP of 4ft will be provided by Vendor on date of submission of EUT.

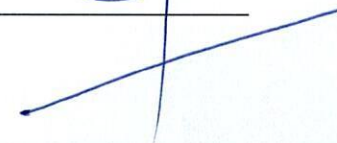
Sl.No	Parameters	Specification/QRs	Trial Directives(TDs)
20.	Muzzle Velocity	700±10 m/s.	<p>(i) OEM to provide certificate from any International/ NABL accredited lab/NFSU/ DRDO labs/DGQA/ Govt. lab. OEM to provide contact person details, phone number, address, e-mail address &amp; website of the lab. Authenticity of certificate to be confirmed by the BOO.</p> <p>(ii) The certificate will remain valid for 05 years from the date of its issue. The testing of weapon (national level) for issue of fresh certificate/ renewal after expiry of the validity period of certificate may be facilitated by tendering agency during STEC, if required.</p>
21.	Flash Suppressor	7.62 x 39mm Assault Rifle should have a flash suppressor	To be physically checked by BOO
22.	Picatinny rail	The Assault Rifle should have minimum two picatinny rails (MIL-STD 1913) at the 12 O'clock & 6 O'clock position to accommodate sights & other accessories.	Physical verification by fitting the existing holographic sight & TI sight onto the weapon by BOO.
23.	Provision for mounting UBGL 40mm	Weapon should be able to mount UBGL (Type of UBGL to be specified by the user)	To be physically checked by BOO











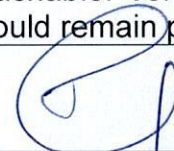


Sl.No	Parameters	Specification/QRs	Trial Directives(TDs)
24.	Accuracy & Hit Probability	<p>(i) <b>Single Shot-</b> Firing from a fixed mount at 100m range, nine hits out of ten shots fired should be in a group size of diameter of 12cm.</p> <p>(ii) <b>Automatic Fire</b> – Firing from a fixed mount at 100m Range, when one full magazine is fired in short bursts of two to three rounds, it should achieve minimum 60% hits within a circle of diameter 30cm.</p>	<p>(i) To be physically checked by BOO</p> <p>(ii) OEM to provide firer and target. In case OEM requests for a firer from user agency, it is to be provided only after obtaining NOC to the effect that "OEM will not question/claim the skill of the firer and the result of trial firing will be acceptable to him".</p> <p>(iii) Trial team including firers will carry out familiarization with the weapon for one day prior to commencement of trials. During familiarization period, weapons will be fired by all firers during day and night.</p>
25.	Robustness	The weapon will be put through normal obstacle course and once again subjected to accuracy test.	To be physically checked by BOO
26.	Reliability	<p>(a) Should not have more than Three Class I/ Class II stoppages out of which not more than one should be Class II stoppage and No Class III stoppage in a firing cycle of 2400 rounds, conducted as per TOP 3-2-045.</p> <p>(b) Stoppages are classified as under:-</p> <p>(i) <b>Class I Stoppage</b> – Can be removed by the firer within 10 seconds without use of any tools, equipment or spares by immediate action procedures.</p> <p>(ii) <b>Class II Stoppage</b> – Can be removed by firer in 10 seconds to 10 minutes with tools, equipment or spares issued with the weapon.</p> <p>(iii) <b>Class III Stoppage</b> - Takes more time than 10 minutes or special tools/spares to rectify defects and to resume firing by the firer.</p>	<p>(i) 2400 rounds will be fired.</p> <p>(ii) Procedure as per TOP 3-2-045.</p> <p>(iii) All the stoppages will be noted as per their classification.</p> <p>(iv) One weapon will be evaluated in unfolded butt condition.</p> <p><b>Procedure</b> Disassemble, clean, inspect, lubricate and reassemble weapon.</p> <p><b>Firing Cycle</b> Each cycle will comprise firing of 120 rounds. 60 rounds in single shot mode @ 60 rounds per minute and 60 rounds in short burst mode of 2-3 rounds @ 85 rounds per minute will be fired. Each cycle to be followed by minimum 10 minutes of cooling.</p> <p>After every 240 rounds (2 cycles), allow complete cooling of weapon to the point that barrel can be held in a bare hand indefinitely.</p> <p>After every 1200 rounds (10 cycles) disassemble, clean, lubricate and inspect weapon.</p> <p>Continue above process till 2400 rounds.</p> <p>Temperature should be between minus 20°C and plus 45°C. Same will be recorded.</p>


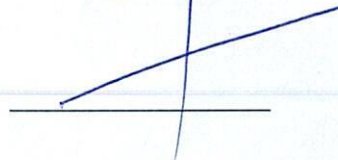


Sl.No	Parameters	Specification/QRs	Trial Directives(TDs)
27.	<b>Operating/Storage Temperature</b>		
	(a) Operating Temperature	-20°C to + 50°C	(i) OEM to provide certificate from any International/ NABL accredited lab/NFSU/ DRDO labs/DGQA/ Govt. lab. OEM to provide contact person details, phone number, 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. The testing of weapon (national level) for issue of fresh certificate/ renewal after expiry of the validity period of certificate may be facilitated by tendering agency during STEC, if required.
	(b) Storage Temperature	-20°C to + 50°C	
	(c) Humidity	95% at temp +40°C	
28.	Zeroing	All weapons will be zeroed from 100m prior to commencement of trials. Difficulties if any, in the method and accuracy of zeroing would be recorded.	To be physically checked by BOO
29.	Night Firing.	Handling and firing of weapons will be carried out during the night.	To be physically checked by BOO
30.	Service Life of Weapon	Assault rifle should have minimum service life of 15 years/ 15000 rounds whichever is earlier.	OEM to provide self certificate.
31.	Vertical Forehand Grip.	A removable vertical forehand grip should be provided with the Assault Rifle. The vertical forehand grip should be attachable to the 6 O'clock rail and should be positively secured without the use of tools.	(i) To be physically checked by BOO. (ii) Three (03) weapons will be made to fire in unfolded butt condition in two positions I,e single and Auto with a full magazine in each mode. (iii) The forehand grip should be removable and attachable. Vertical forehand grip of all three weapons should remain positively secured after firing.














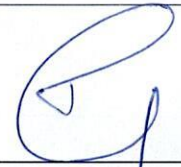




Sl.No	Parameters	Specification/QRs	Trial Directives(TDs)
32.	Accessories	(i) Shoulder strap/ Sling- One per weapon.	To be physically checked by BOO
		(ii) Magazine - Five per weapon (one with rifle plus four)	To be physically checked by BOO
		(iii) Bayonet with Scabbard- (Optional) User to specify.	To be physically checked by BOO
		(iv) Portable case / Belt attachment pouches-which accommodates 4 pcs of magazines of 30 rounds (Optional). User to specify.	To be physically checked by BOO
		(v) Blank Cartridge Nozzle- User to specify.	To be physically checked by BOO
		(vi) Cleaning kit (OEM to specify the items provided) - One per weapon.	To be physically checked by BOO
		(vii) Three point sling - (Optional) User to specify.	To be physically checked by BOO
		(viii) Tools for zeroing, (Optional), maintenance & repairs in field conditions - User to specify.	To be physically checked by BOO
33.	<b>Engineering Support Package</b>		To be physically checked by BOO
	The manufacturer should provide engineering support package including:-		
	(a) Technical literature		To be physically checked by BOO
	(b) Training manuals, Repair Manuals, User hand books and Preservation instructions to be provided in English		To be physically checked by BOO
	(c) Illustrated spare parts list duly priced		To be physically checked by BOO
	(d) List of STEs/SMTs/Test Jigs/Gauges for Base and Field Repairs to be provided		To be physically checked by BOO
	(e) Recommended list of spares for ten years to be provided.		To be physically checked by BOO
	(f) Undertaking for spare back up by the OEM for next 15 years		To be physically checked by BOO


  
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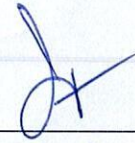
  
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CDR A. J. CHOPRA  
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(J. V. SINGH)  
ADG/DGDA

  
NAREN PAL  
AS/ARMQ-BSF

  
Dhivya  
CO (Ord)  
CRPF