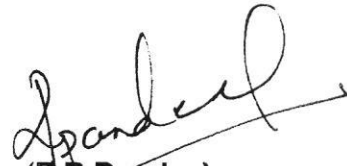


Government of India  
Ministry of Home Affairs  
**Directorate General National Security Guard**  
(Provisioning Branch/Ord Section)  
Mehram Nagar, Palam, New Delhi – 110 037  
Fax No. 011-25663258/25671639

No. P/604/19(389)/Concealable/Prov (Ord)/NSG/2756 Dated, the 11 Jun 2019

**QUALITATIVE REQUIREMENTS (QRs) AND TRIAL DIRECTIVES (TDs)**  
**OF CONCEALABLE 9X19 MM CARBINE SMG**

1. The QRs and TDs in respect of **Concealable 9x19 MM Carbine SMG** as per Annex-I and Annex-II respectively have been approved by the competent authority are forwarded herewith.
2. For your information and further necessary action please.



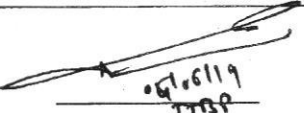
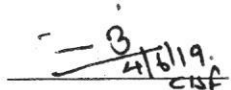
  
(P R Pandey)  
Maj  
Sqn Commander  
For IG (Prov)

**Distribution:-**

1. JS (PM), MHA, Jaisalmer House, New Delhi - for information please.
2. IG/ Director (R&D), BPR&D, 4th Floor, Block No 11, CGO Complex, New Delhi.
3. DIG (Prov), CRPF, CGO Complex, New Delhi.
4. DIG (Prov), CISF, CGO Complex, New Delhi.
5. DIG (Prov), ITBP, CGO Complex, New
6. DIG (Prov), SSB, R.K. Puram, New Delhi.
7. DIG (Prov), BSF, CGO Complex, New Delhi
8. DIG (Prov), Assam Rifles (Through LOAR)
9. Ops (WE), HQ NSG

**QRs OF CONCEALABLE 9 X 19 MM CARBINE SMG  
IN PERSONAL DEFENCE WEAPON CATEGORY**

Ser No	Specification
1.	<b>Introduction:</b> -The concept of concealable 9x 19 MM Carbine SMG weapon is that it should be light weight, robust, easy to use, modular and above all at some extent it can be concealed.
2.	<b>Caliber:</b> Weapon should be capable of firing 9x19 mm Amn including indigenous OFB manufactured ammunition without any alterations or replacement of working parts of the carbine.
3.	<b>Weight of Carbine:</b> Weight without magazine should not be more than 3.25 Kg.
4.	<b>Firing Mode</b> (a) Single and Automatic. (b) Suitable change lever to select firing mode. (c) Change lever should positively locked to ensure that weapon fires in desired mode only when it is in designated position.
5.	<b>Effective Range:</b> Not less than 50 Meter.
6.	<b>Muzzle Velocity:</b> Not less than 375 m/s.
7.	<b>Rate of Fire:</b> Not less than 600 Rounds per minute cyclic rate of fire.
8.	<b>Accuracy:</b> (a) At 25 meter range, the group size should be within 15cm x 15cm and six hits to be considered out of seven hits when the weapon is fired from a fixed mount. (b) When a short of two to three rounds is fired from the weapon fitted on fixed mount in automatic mode, at least 50% of rounds should hit within a 30cm x 30cm area at a range of 25 meters.
9.	<b>Reliability:</b> The weapon must achieve reliability factor of not less than 99.5% i.e. not more than one stoppage/ defect in 200 rounds fired in four cycles of 800 rounds ( Only class 1 stoppage permissible class2/3 stoppage not permissible).
10.	<b>Adverse Condition Test:</b> (a) Sand Test (b) Water Test (c) Mud Test (d) Drop Test
11.	<b>Environmental Conditions Tests:</b> (a) Operating Temperature : -35 Deg C to +55 Deg C. (b) Storage Temperature : -35 Deg C to +55 Deg C. (c) Humidity : 65% RH at 25 Deg C.
12.	<b>Designed for Right and Left Handed Use:</b> The weapon should be capable of ambidextrous usages for following:- (a) Provision of ambidextrous safety lever (b) Provision of ambidextrous magazine catch and fire selector
13.	<b>Color:</b> Black or to be specified by user at the time of tendering.
14.	<b>Length:</b> Overall length-Not more than 550 mm with stock extended and not more than 350mm with stock closed.
15.	<b>Picatinny Rail:</b> Mil standard 1913 picatinny Rail integrated with the weapon on at least three sides (to be specified by the user) to provide interfaces for accessories like internationally available Optical sights and Tactical lights/ LAD.
16.	<b>Life:</b> Barrel life of weapon should be of minimum 15000 rounds, or weapon life 15 years which ever is earlier

Ser No	Specification
17.	<p><b>Optical Sight Reflex Sight:</b> Procurement of optical sights with the weapon is not mandatory. To be decided by the users at the time of tendering. It should be convenient for the firer to use the sight to acquire and effectively engage stationery and moving target. The firer should have option of using it with both eyes open or master eye only.</p> <p>(a) Nature - It should be passive in nature.  (b) Range - Upto 150 meter.  (c) Zeroing - Arrangement for zeroing in the horizontal and vertical plane.  (d) Reticle - Provision for adjustment of brightness level of reticle.  (e) Weight - Not more than 350 Gms.  (f) Color -Black with no shining parts. Optical surfaces should be antiglare and scratch resistant.  (g) Mounting - It should be easy to mount and remove the sight from the weapon without the use of special tools.  (h) Power source - Power source-it should be powered by commercially available batteries and minimum endurance should be 10 hours. It should have auto shut down facility.  (j) Low battery, indicator - Sight should be provided with low battery indicator which must provide minimum 30 minutes to allow change of battery and must not affect current task in progress.  (k) Compliance - The sight should be compliant to JSS-55555.  (l) Operating temperature- -35 deg C to +55 deg C.  (m) Storage temperature - -35 deg C to +55 deg C.  (n) Relative humidity - 65% at 25 deg C.</p>
18.	<p><b>Laser Aiming Aid:</b> It should aid in aiming at the target in twilight and night conditions.</p> <p>(a) Type - visible eye safe laser.  (b) Range - not less than 100 Mtr during night.  (c) Activation - thumb grip.  (d) Zeroing - arrangement for zeroing in the horizontal and vertical plane.  (e) Laser Spot - It should be clearly visible upto a minimum of 100 Mtr distance.  (f) Weight - not more than 250 Gms with batteries.  (g) Color - black with no signing parts.  (h) Mounting - it should be easy to mount and remove the equipment from the weapon without the use of special tools.  (j) Power Sources - it should be powered by commercially available batteries and minimum endurance should be 700 shots of 5 second duration each.</p>
19.	<p><b>Magazine :</b></p> <p>(a) Capacity - Not less than 30 rounds.  (b) Material -It should be robust enough to withstand rough uses under various environmental conditions. Should not get deformed when subjected to heat during prolonged firing or in hot weather conditions. It should be either metallic or high strength polymer.</p>
20.	<p><b>Furniture:</b> Should be made up of high standard polymers/ composite/ reinforced scratch proof plastic of high strength enabling environmental stability.</p>
21.	<p><b>Fore Hand Grip:</b> It should be present in the carbine.</p>

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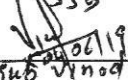
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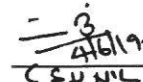
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Ser No	Specification
22.	<b>Sighting:</b> Can have open sights or aperture sights.
23.	<b>Sling:</b> It should have adjustable and robust carrying sling with quick detachment feature.
<b>Miscellaneous Parameters</b>	
24.	<b>Safety:</b> Both mechanical and applied safety.
25.	<b>Field Striping:</b> Weapon should be easily stripped without any tool or with minimum tools, and all cleaning parts to be designed for field cleaning.
26.	<p><b>Accessories:</b> Manufacturer of the weapon should provide accessories to include:-</p> <ul style="list-style-type: none"> <li>(a) Laser aiming Device.</li> <li>(b) Magazine.</li> <li>(c) Field cleaning kit.</li> <li>(d) Standard weapon tool kit.</li> <li>(e) Measurement gauge (Go and No go).</li> <li>(f) Filler Gauge.</li> <li>(g) Firing pin protrusion Gauge.</li> <li>(h) Maintenance manual in English.</li> <li>(j) Technical literature in English.</li> <li>(k) Training manual and user hand book/ training brochure/ video films.</li> <li>(l) Manufactures recommended list of spares dually priced.</li> <li>(m) Recommended list of spares for four years for field level and base level repairs and spares backup, backup must be assured at least for fifteen years.</li> <li>(n) List of STEs/ SMTs/ Test Jigs for repair and testing of main equipment at field level.</li> <li>(o) Illustrated spare parts list.</li> </ul> <p><b>Note :</b> The quantity of each accessories to be specified by the user at the time of tendering.</p>
27.	<b>Training:</b> In situ training for one week on operation, maintenance, fault finding and user level repairs at buyer's premises at their cost.


  
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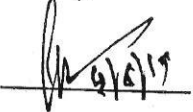
  
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APPROVED/ NOT APPROVED


  
 (Sudeep Lakhtakia)  
 DG, NSG


**TRIAL DIRECTIVES OF CONCEALABLE 9 X 19 MM CARBINE SMG  
IN PERSONAL DEFENCE WEAPON CATEGORY**

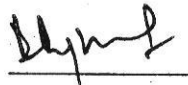
Ser No	Specification	Trial Directives
1.	<b>Introduction:</b> - The concept of concealable 9x 19 MM Carbine SMG weapon is that it should be light weight, robust, easy to use, modular and above all at some extent it can be concealed.	To be physically checked by BOO.
2.	<b>Caliber:</b> Weapon should be capable of firing 9x19 mm Amn including indigenous OFB manufactured ammunition without any alterations or replacement of working parts of the carbine.	To be physically checked by BOO with gauge provided by the OEM. OEM also provides a certificate from a national/ International accredited lab certifying the same.
3.	<b>Weight of Carbine:</b> Weight without magazine should not be more than 3.25 Kg.	To be physically checked by BOO.
4.	<b>Firing Mode</b> (a) Single and Automatic. (b) Suitable change lever to select firing mode. (c) Change lever should positively locked to ensure that weapon fires in desired mode only when it is in designated position.	To be physically checked by BOO.
5.	<b>Effective Range:</b> Not less than 50 Meter.	To be physically checked by BOO.
6.	<b>Muzzle Velocity:</b> not less than 375 m/s	OEM to provide a certificate from a national/ International accredited lab. OEM to provide contact person details, phone no, address, e-mail address and web site of the lab. Authenticity of the certificate must be confirmed by the BOO.
7.	<b>Rate of Fire:</b> Not less than 600 Rounds per minute cyclic rate of fire.	OEM to provide a certificate from a national/ International accredited lab. OEM to provide contact person details, phone no, address, e-mail address and web site of the lab. Authenticity of the certificate must be confirmed by the BOO.


  


  
 Gun Control Dept  
 SSB

  
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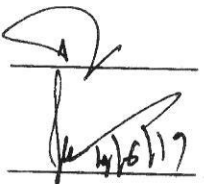
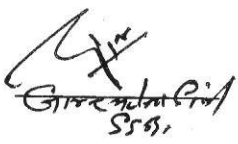
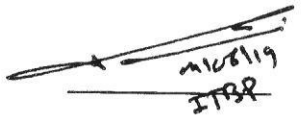


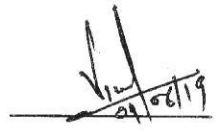
  
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Ser No	Specification	Trial Directives		
8.	<p><b>Accuracy :</b></p> <p>(a) At 25 meter range, the group size should be within 15cm x 15cm and six hits to be considered out of seven hits when the weapon is fired from a fixed mount.</p> <p>(b) When a short of two to three rounds is fired from the weapon fitted on fixed mount in automatic mode, at least 50% of rounds should hit within a 30cm x 30cm area at a range of 25 meters.</p>	<p><u>RG</u></p> <p><u>NO OF RDS</u></p> <p><u>MOUNT</u></p> <p><u>TYPE OF FIRE</u></p> <p><u>GROUP SIZE</u></p> <p>6 rd HIT</p>	<p>25M</p> <p>70 Rds</p> <p>FIXED</p> <p>SINGLE</p> <p>15 X 15 CM</p>	<p>25M</p> <p>60 Rds</p> <p>FIXED</p> <p>AUTO</p> <p>30 X 30 CM</p> <p>50%</p>
9.	<p><b>Reliability:</b> The weapon must achieve reliability factor of not less than 99.5% i.e. not more than one stoppage/ defect in 200 rounds fired in four cycles of 800 rounds (Only class 1 stoppage permissible class2/3 stoppage not permissible).</p>	<p>(i) A test cycle of 200 rounds will be fired in shorts bursts of 2 to 3 rounds.</p> <p>(ii) Weapon will be allowed to cool down for 10 minutes. Tests will be carried out during field functional trial and the firing will be carried out by the firers of the OEM. Weapon will be fixed on a mount and fixed accuracy test will be conducted the OEM ammunition.</p>		

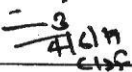







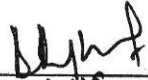
Ser No	Specification	Trial Directives
10.	<p><b>Adverse Condition Test:</b></p> <p>(a) Sand Test</p> <p>(b) Water Test</p> <p>(c) Mud Test</p> <p>(d) Drop Test</p>	<p>(i) Weapon loaded and cocked with full magazine buried and fully covered in sand for 10 minutes. Remove from sand and the fire. The carbine should be able to fire 5 rounds (single shot) and remaining of the rounds in 3-5 burst without any stoppages. The muzzle and breach end should be plugged.</p> <p>(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.</p> <p>(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.</p> <p>(iv) Drop the weapon with the cartridge (bullet and powder removed) from a height of 1.5 m. 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.</p>
11.	<p><b>Environmental Conditions Tests:</b> (a) Operating Temperature : -35 Deg C to +55 Deg C.</p> <p>(b) Storage Temperature : -35 Deg C to +55 Deg C.</p> <p>(c) Humidity : 65% RH at 25 Deg C.</p>	<p>OEM to provide a certificate from a national/ International accredited lab. OEM to provide contact person details, phone no, address, e-mail address and web site of the lab. Authenticity of the certificate must be confirmed by the BOO.</p>

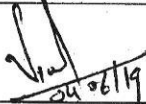
  


  
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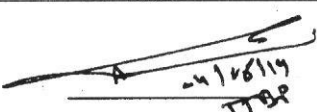
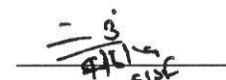
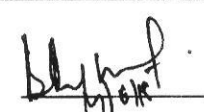

  
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Ser No	Specification	Trial Directives
12.	<b>Designed for Right and Left Handed Use:</b> The weapon should be capable of ambidextrous usages for following:- (b) provision of ambidextroussafety lever (c) provision of ambidextrousmagazine catch and fire selector	To be demonstrated by OEM and physically checked by BOO.
13.	<b>Color:</b> Black or to be specified by user at the time of tendering.	To be physically checked by BOO.
14.	<b>Length :</b> Overall length-Not more than 550 mm with stock extended and not more than 350mm with stock closed.	To be physically checked by BOO.
15.	<b>Picatinny Rail :</b> Mil standard 1913 picatinny Rail integrated with the weapon on at least three 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.
16.	<b>Life:</b> Barrel life of weapon should be of minimum 15000 rounds, or weapon life 15 years which ever is earlier.	OEM to provide a certificate from a national/ International accredited lab. OEM to provide contact person details, phone no, address, e-mail address and web site of the lab. Authenticity of the certificate must be confirmed by the BOO.


  
  
  
  
  





Ser No	Specification	Trial Directives
17.	<p><b>Optical Sight Reflex Sight:</b> Procurement of optical sights with the weapon is not mandatory. To be decided by the users at the time of tendering. It should be convenient for the firer to use the sight to acquire and effectively engage stationery and moving target. The firer should have option of using it with both eyes open or master eye only.</p> <p>(a) Nature - It should be passive in nature.                      (b) Range - Upto 150 meter.                      (c) Zeroing - Arrangement for zeroing in the horizontal and vertical plane.                      (d) Reticle - Provision for adjustment of brightness level of reticle.                      (e) Weight - Not more than 350 Gms.                      (f) Color - Black with no shining parts. Optical surfaces should be antiglare and scratch resistant.                      (g) Mounting - It should be easy to mount and remove the sight from the weapon without the use of special tools.                      (h) Power source - Power source-it should be powered by commercially available batteries and minimum endurance should be 10 hours. It should have auto shut down facility.                      (j) Low battery, indicator - Sight should be provided with low battery indicator which must provide minimum 30 minutes to allow change of battery and must not affect current task in progress.                      (k) Compliance - The sight should be compliant to JSS-55555.                      (l) Operating temperature - -35 deg C to +55 deg C.                      (m) Storage temperature - -35 deg C to +55 deg C.                      (n) Relative humidity - 65% at 25 deg C.</p>	<p>To be physically checked by BOO.</p> <p>Night Firing 120 rounds (For accuracy, hit probability, single shot and burst mode).</p> <p>To be physically checked by BOO.</p> <p>OEM to provide certificate.                      OEM to provide certificate.                      OEM to provide certificate.                      OEM to provide certificate.</p>


  
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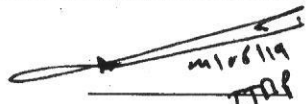

  
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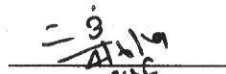
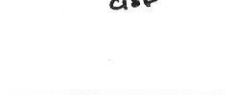
  
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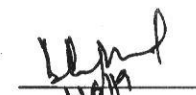
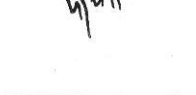
Ser No	Specification	Trial Directives
18.	<p><b>Laser Aiming Aid:</b> It should aid in aiming at the target in twilight and night conditions.</p> <p>(a) Type - visible eye safe laser.</p> <p>(b) Range - not less than 100 Mtr during night.</p> <p>(c) Activation - thumb grip.</p> <p>(d) Zeroing - arrangement for zeroing in the horizontal and vertical plane.</p> <p>(e) Laser Spot - It should be clearly visible upto a minimum of 100 Mtr distance.</p> <p>(f) Weight - not more than 250 Gms with batteries.</p> <p>(g) Color - black with no signing parts.</p> <p>(h) Mounting - it should be easy to mount and remove the equipment from the weapon without the use of special tools.</p> <p>(j) Power Sources - it should be powered by commercially available batteries and minimum endurance should be 700 shots of 5 second duration each.</p>	<p>OEM to provide certificate.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>To be physically checked by BOO.</p> <p>Day and night firing - 90 rounds.</p>
19.	<p><b>Magazine :</b></p> <p>(a) Capacity - Not less than 30 rounds.</p> <p>(b) Material -It should be robust enough to withstand rough uses under various environmental conditions. Should not get deformed when subjected to heat during prolonged firing or in hot weather conditions. It should be either metallic or high strength polymer.</p>	<p>To be physically checked by BOO.</p> <p>OEM to provide certificate.</p>



  




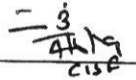



  


Ser No	Specification	Trial Directives
20.	<b>Furniture:</b> Should be made up of high standard polymers/ composite/ reinforced scratch proof plastic of high strength enabling environmental stability.	To be physically checked by BOO. OEM to provide certificate.
21.	<b>Fore Hand Grip:</b> It should be present in the carbine.	To be physically checked by BOO.
22.	<b>Sighting:</b> Can have open sights or aperture sights.	To be physically checked by BOO.
23.	<b>Sling:</b> It should have adjustable and robust carrying sling with quick detachment feature.	To be physically checked by BOO.
<b>Miscellaneous Parameters</b>		
24.	<b>Safety:</b> Both mechanical and applied safety.	To be demonstrated by OEM and physically checked by BOO.
25.	<b>Field Striping:</b> Weapon should be easily stripped without any tool or with minimum tools, and all cleaning parts to be designed for field cleaning.	To be demonstrated by OEM and physically checked by BOO.

Ser. No.	Specification	Trial Directives
26.	<p><b>Accessories:</b> Manufacturer of the weapon should provide accessories to include:-</p> <ul style="list-style-type: none"> <li>(a) Laser aiming Device.</li> <li>(b) Magazine.</li> <li>(c) Field cleaning kit.</li> <li>(d) Standard weapon tool kit.</li> <li>(e) Measurement gauge (Go and No go).</li> <li>(f) Filler Gauge.</li> <li>(g) Firing pin protrusion Gauge.</li> <li>(h) Maintenance manual in English.</li> <li>(j) Technical literature in English.</li> <li>(k) Training manual and user hand book/ training brochure/ video films.</li> <li>(l) Manufactures recommended list of spares duly priced.</li> <li>(m) Recommended list of spares for four years for Repairs at all levels and spares backup, backup must be assured at least for fifteen years.</li> <li>(n) List of STEs/ SMTs/ Test Jigs for repair and testing of main equipment at field level.</li> <li>(o) Illustrated spare parts list.</li> </ul> <p><b>Note :</b> The quantity of each accessories to be specified by the user at the time of tendering.</p>	<p>Individual accessories to be demonstrated by OEM and physically checked by BOO.</p>
27.	<p><b>Training:</b> In situ training for one week on operation, maintenance, fault finding and user level repairs at buyer's premises at their cost.</p>	<p>OEM to conduct the training.</p>

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 S2 CAG

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APPROVED/ NOT APPROVED

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 (Sudeep Lakhtakia)  
 DG, NSG