

**POST-AoN INFORMATION : 5.56 x 45MM CQB CARBINE
FOR INDIAN ARMY**

1. Defence Acquisition Council (DAC) has accorded Acceptance of Necessity (AoN) for procurement of 5.56 x 45mm CQB Carbine as per details given below :-

- (a) **Quantity**. 4,25,213 of 5.56 x 45mm CQB Carbine.
- (b) **Category**. 'Buy (Indian)'.

2. In order to maximize participation, essential details of AoN alongwith other information are being published on MoD/Indian Army website. Any Indian vendor who had not responded to the RFI earlier may express interest within four weeks from date of publication of details on MoD/Indian Army website for seeking Request for Proposal (RFP) and submission of bid. This is as per Para 35 of Chapter 2 of DAP-2020. Tentative date of issue of RFP is in **Nov 2022**.

3. With the view to identify additional vendors who had not responded to inputs sought earlier, OEMs/Vendors are requested to forward detailed information on the product which they can offer.

4. The Information consists of two parts as indicated below :-

- (a) **Part I**. The First Part incorporates Operational parameters that should be met by the equipment and tentative date of the issue of the RFP and the quantity required to be procured.
- (b) **Part II**. The Second Part states the methodology seeking response of vendors.

**PART – I : OPERATIONAL PARAMETERS AND
BROAD TECHNICAL REQUIREMENTS**

5. Indian Army seeks a 5.56 x 45mm CQB Carbine with the following broad operational characteristics:-

- (a) **Calibre**. 5.56 x 45mm.
- (b) **Ammunition**. In-Service Indian 5.56 x 45mm ammunition.
- (c) **Effective Range**. Not less than 200 meters.
- (d) **Accuracy and Hit Probability**.

- (i) **Single Shot.** Firing from a fixed mount at 100m range, nine hits out of ten shots fired should be in a group size of 15 cm x 15 cm.
- (ii) **Automatic Fire.** 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 on a target size of 24 cm x 24 cm.
- (e) **Reliability.** Should not have more than Three Class I / Class II stoppages and NO Class III stoppage in a firing cycle of 2000 rounds, conducted as per TOP 3-2-045.
- (f) **Bayonet.** A detachable, hardened bayonet of minimum blade length 120mm be provided with a suitable cover.
- (g) **Vertical Forehand Grip.** A removable vertical forehand grip should be provided with the CQB Carbine. The vertical forehand grip should be attachable to the 6 O'clock rail and should be positively secured without the use of tools.
- (h) **Picatinny Rails.**
- (i) The CQB Carbine shall have a Picatinny Rail (MIL-STD 1913) at the 12 O'clock position to accommodate sights and other accessories.
- (ii) The CQB Carbine shall also have additional Picatinny Rails at 3 O'clock, 6 O'clock and 9 O'clock position in the fore-arm/hand guard area.
- (j) **Weight.** Weight of the CQB carbine without magazine & accessories should not exceed 3 Kgs + 10%.
- (k) **Butt Stock.** Fixed butt/Folding butt/Retractable butt/Combination butt.
- (l) **Overall Length.**
- (i) **In Folded/ Retracted Condition/ Fixed Butt.** Not more than 650mm.
- (ii) **Extended Condition.** Not more than 800mm.
- (m) **Operational Temperature.**

(i) **Minimum Temperature**. Between minus 20⁰C and minus 10⁰C.

(ii) **Maximum Temperature**. Between 40⁰C and 45⁰C.

(n) **Service Life**. The CQB Carbine should have a minimum service life of 15 years/ 15,000 rounds whichever is earlier (OEM certificate).

6. Tentative date of **issue of RFP is Nov 2022**. Total Quantity required is **4,25,213** of **5.56 x 45mm CQB Carbine**. After signing of the contract, the quantity required should be delivered commencing earliest but not later than eight (08) months and completing earliest but not later than sixty (60) months. The vendors should confirm if they can deliver the requisite quantity of CQB Carbine within the stipulated timeframe.

PART - II : PROCEDURE FOR RESPONSE

7. The parameters/broad specifications of the item be mentioned in the questionnaire attached as per **Appendix 'A'**. The vendors are required to respond to the same.

8. In addition the vendors are required to furnish details as per Performa at **Appendix 'B'**.

9. Apart from the information as per the Appendices the vendors may also forward technical details/product brochures/literature etc pertaining to the item.

10. This information is being issued with no financial commitment and the Ministry of Defence, Government of India, reserves the right to change or vary any part thereof at any stage. The Government of India also reserves the right to withdraw it should it be necessary at any stage. The acquisition process would be carried out under the provisions of DAP - 2020.

11. The required information/details may please be forwarded at the following addresses **within four weeks from the date of publishing:-**

- (a) DIRECTOR GENERAL OF INFANTRY/INFANTRY-8
GENERAL STAFF BRANCH
ROOM NO 403, D-1 WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI - 110 011
FAX NO : +91-11-23018412
E mail ID : suresh1234@nic.in

- (b) DIRECTORATE GENERAL OF CAPABILITY DEVELOPMENT
(CD - 9)
GENERAL STAFF BRANCH
ROOM NO 411, A WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI – 110 011
FAX NO : +91-11-23793274
E mail ID : gso1-we9-army@nic.in
- (c) DIRECTORATE GENERAL OF
CAPABILITY DEVELOPMENT (RFP CELL)
GENERAL STAFF BRANCH
ROOM NO - 444, A WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI – 110011
FAX NO : +91-11-23793274
E mail ID : dirrfp.we-army@nic.in
- (d) DIRECTORATE GENERAL OF ARMY DESIGN BUREAU
T&WS (GSQR CELL)
GENERAL STAFF BRANCH
ROOM NO - 122, A WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI – 110011
FAX NO : +91-11-2011198
E mail ID : dracd920-ihq@nic.in
- (e) ADDITIONAL DIRECTOR GENERAL ACQUISITION TECHNICAL
(ARMY)
ROOM NO 28, D-II WING, SENA BHAWAN
MINISTRY OF DEFENCE, NEW DELHI – 11
Fax No: +91-11- 23792414
E mail ID : tmls-mod@nic.in

12. An early action is requested.

QUESTIONNAIRE

<u>Ser No</u>	<u>Question/ Specification</u>	<u>Reply</u>
1.	<p><u>Calibre.</u></p> <p>(a) Do you have a CQB Carbine of 5.56 x 45mm Calibre, including variants if any?</p> <p>(b) Please provide the details of variants of the CQB carbine available with you along with their respective specifications?</p> <p>(c) Can the Carbine fire Indian in-service 5.56 x 45mm NATO Ball ammunition?</p> <p>(d) If not, please provide the details/ specifications of ammunition fired by your Carbine?</p>	
2.	<p><u>Colour.</u> What is the colour of your Carbine? Do you have Carbine of matt finish/non-reflective surface in black colour?</p>	
3.	<p><u>Effective Range.</u></p> <p>(a) What is the maximum effective range of the CQB Carbine?</p> <p>(b) What is the mechanism to ascertain/ determine the maximum effective range?</p>	
4.	<p><u>Weight.</u> What is the weight of CQB Carbine?</p> <p>(a) Without magazine and accessories/ attachments.</p> <p>(b) With empty magazine and without accessories/ attachments.</p>	
5.	<p><u>Reliability.</u></p> <p>(a) Please specify the reliability of CQB Carbine in term of :-</p> <p>(i) Number and various classes of stoppages during a firing cycle of 2000 rounds as per TOP 3-2-045?</p> <p>(ii) Classes of stoppages are as under :-</p> <p>(aa) <u>Class I Stoppage.</u> Can be removed by the firer in 10 seconds without the use of any tools / equipment / spares by using immediate action drills.</p> <p>(ab) <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.</p>	

<u>Ser No</u>	<u>Question/ Specification</u>	<u>Reply</u>
	<p>(ac) Class III Stoppage. Takes more than 10 minutes or special tools / equipment to rectify defects and resume firing.</p> <p>(b) Has your CQB Carbine undergone any trials for reliability aspect in the past? If yes, please provide the details and the standards followed for the subject?</p>	
6.	<p>Accuracy. What is the accuracy of the CQB Carbine at 100 meters, 200 meters and at maximum effective range claimed by you in following modes? Please specify in terms of MoA and group size in centimeters.</p> <p>(i) Single shot (when 10 rounds fired).</p> <p>(ii) Automatic (when 30 rounds fired in bursts of 2 – 3 rounds).</p> <p>(iii) What is the mechanism to ascertain the accuracy?</p>	
7.	<p>Length. What is the length of the CQB Carbine :-</p> <p>(a) With flash suppressor and fully folded/ retracted butt.</p> <p>(b) With flash suppressor and fully extended butt.</p>	
8.	<p>Rate of Fire (RoF) per minute. What is the minimum cyclic RoF of your CQB Carbine?</p>	
9.	<p>Magazine.</p> <p>(a) What are the types of magazines provided with the CQB Carbine? Please specify the following in respect of each option/ variant :-</p> <p>(a) Material of construction.</p> <p>(b) Capacity of rounds.</p> <p>(c) Weight of empty magazine.</p> <p>(d) Provision of mechanism for indication of number of rounds in the magazine (if available).</p> <p>(b) Is the magazine rugged in battlefield conditions in the prevalent terrain and climatic conditions of India?</p>	

<u>Ser No</u>	<u>Question/ Specification</u>	<u>Reply</u>
10.	<p><u>Bayonet.</u></p> <p>(a) Do you have a bayonet (with cover) with the CQB Carbine? What is the mechanism of attaching the bayonet with carbine?</p> <p>(b) If yes, is the bayonet multipurpose? What are the functions that the bayonet can be used for?</p> <p>(c) What is the length of the blade of the bayonet?</p>	
11.	<p><u>Modularity.</u></p> <p>(a) Is the weapon modular?</p> <p>(b) Does the weapon facilitate replacement of sub-assemblies without using any specialist tools?</p> <p>(c) If yes, please specify the mechanism and sub-assemblies.</p>	
12.	<p><u>Picatinny Rails.</u></p> <p>(a) Does the CQB Carbine have MIL STD 1913 picatinny rails? If yes, where on the weapon are these mounted? Also describe them in terms of location on the weapon and dimensions.</p> <p>(b) Do the picatinny rails obstruct/ interfere with the handling/ smooth operation of the weapon?</p>	
13.	<p><u>Sighting System.</u> Does the CQB Carbine have an integrated open sight? If yes,</p> <p>(a) What is the type/ design of open sight?</p> <p>(b) What are the ranges provided for firing with open sight?</p> <p>(c) Is the sight removable from the weapon?</p> <p>(d) Is it mounted on picatinny rail or the body of weapon?</p> <p>(e) Is it made of metal or polymer?</p> <p>(f) What is the method of zeroing the weapon? What tools are used to zero the weapon?</p>	
14.	<p><u>Butt Stock.</u></p> <p>(a) Does the CQB Carbine have a folding or telescopic/retractable butt or a combination of both?</p> <p>(b) Does the butt have an integral back-plate which is ergonomically designed for firer's comfort and is shock absorbent?</p> <p>(c) Does the butt have a cheek-rest?</p>	

<u>Ser No</u>	<u>Question/ Specification</u>	<u>Reply</u>
15.	<p><u>Flash Suppressor.</u></p> <p>(a) Does the CQB Carbine have a flash suppressor? Is it fixed or removable?</p> <p>(b) What is the design/type of flash suppressor?</p>	
16.	<p><u>Firing Mechanism.</u></p> <p>(a) What are the inbuilt safety mechanism/ features?</p> <p>(b) Is 'Positive Locking' achieved in the weapon for safety during firing?</p> <p>(c) What are the various modes of firing i.e. safe, single and auto mode etc?</p>	
17.	<p><u>Attachments & Accessories.</u></p> <p>(a) Does the CQB Carbine have a provision for firing blank rounds? If yes, please specify.</p> <p>(b) What type of 'Carrying Sling' available with the CQB Carbine? How can the sling be used for different modes of carriage?</p> <p>(c) Does the Carbine have a removable forehead grip? Can it be attached/ removed with the weapon in field conditions without use of tools?</p> <p>(d) Please specify the tools required for zeroing, cleaning and maintenance of the Carbine.</p>	
18.	<p><u>Material.</u> What is the metallurgy used in the weapon? Please specify the metallurgy (including plastic, fibres, polymer, wood etc) used for various parts of the weapon?</p>	
19.	<p><u>Interchangeability.</u> Is your weapon capable of achieving Interchangeability of parts?</p>	
20.	<p><u>Operating Conditions.</u></p> <p>(a) Is the Carbine capable of operating without compromising its performance in the Indian environmental conditions including High Altitude Area, Deserts and Jungles?</p> <p>(b) What are the operating temperature limitations under which the weapon can be used effectively without compromising its performance? What are the storage temperature limitations?</p> <p>(c) What are the conditions of humidity at 30 degree Celsius temperature within which the weapon can be operationally used without de-gradation of its performance?</p> <p>(d) What are the robustness standards of the Carbine (Indian & International)?</p>	

<u>Ser No</u>	<u>Question/ Specification</u>	<u>Reply</u>
21.	<p><u>Packing.</u></p> <p>(a) What is the provision of packing available for the weapon and accessories?</p> <p>(i) Independently for each weapon.</p> <p>(ii) Lot wise packing for transportation and storage/ Mission mode packing.</p> <p>(b) What is the provision for making the packing Water Resistant?</p> <p>(c) What is the provision of locking the packing case?</p> <p>(d) What is the provision of making the packing 'Shock Absorbent'?</p>	
22.	<p><u>Service Life.</u> What is the service life of the offered Carbine? Please specify in terms of years and number of rounds fired.</p>	
23.	<p><u>Indigenisation.</u></p> <p>(a) Does your Firm have a license to manufacture 5.56 x 45mm CQB Carbine from Government of India?</p> <p>(b) If No, has your Firm applied for obtaining license?</p> <p>(c) Do you have a Joint Venture with any foreign OEM or have in-house expertise? If yes, please specify and give details of the same.</p> <p>(d) Are you capable of Indigenous Design and Development of the Carbine? Do you have the patent and/or Intellectual Property Rights (IPR) documents/ Patents/ Design registrations/ copyright wrt systems/ sub-systems for the indigenous design? Please give details.</p> <p>(e) What is the level/percentage of indigenization in terms of :-</p> <p>(i) Cost.</p> <p>(ii) Technology.</p> <p>(iii) Raw Material.</p> <p>(iv) Overall content.</p> <p>(f) In case your firm is a joint venture with foreign OEM, what technology/assembly/component of the Carbine are available with your firm? Please provide details of the same.</p>	
24.	<p>As per DAP-2020, what is the overall Indigenous Content (IC) offered by your Firm for participating in the procurement scheme?</p>	

<u>Ser No</u>	<u>Question/ Specification</u>	<u>Reply</u>
25.	Specify monthly and annual production / delivery capability of Carbine by your firm.	
26.	<p><u>Engineering Support Package (ESP).</u></p> <p>(a) What type of maintenance support can your firm offer?</p> <p>(b) Please provide details of Management of repairs and spares post contract and also Base overhaul facilities and availability of infrastructure in India.</p> <p>(c) Will you be providing spares, Special Maintenance Tools and Special Test Equipment for maintaining the weapon through its life cycle?</p> <p>(d) What are the facilities available at OEM/ Vendor premises to conduct training?</p> <p>(e) What is the recommended training period for user/ crew, Maintenance and Quality Assurance personnel?</p>	
27.	How much time is required for submitting the weapon for NCNC Trials as per DAP, after issue of RFP?	
28.	<p><u>Tentative Cost.</u></p> <p>(a) What is the tentative cost of each CQB Carbine?</p> <p>(b) What is the cost of its accessories?</p> <p>(c) What is the tentative cost of product support package and training?</p>	

Appendix 'B'to Chapter II
(Refers to Para 7 and 15 (a) and
15 (b) of Chapter II)

INFORMATION PROFORMA (INDIAN VENDORS)

1. **Name of the Vendor/Company/Firm.**

(Company profile including Share Holding pattern, in brief, to be attached)

2. **Type (Tick the relevant category).**

Original Equipment Manufacturer (OEM)	Yes/No
Authorised Vendor of foreign Firm	Yes/No (attach details, if yes)
Others (give specific details)	

3. **Contact Details.**

Postal Address:

City: _____ **State:** _____

Pin Code: _____ **Tele:** _____

Fax: _____ **URL/Web Site :** _____

4. **Local Branch/ Liaison Office in Delhi (if any).**

Name & Address: _____

Pin code _____ Tele: _____ Fax: _____

5. **Financial Details.**

(a) Category of Industry (Large/Medium/Small Scale) : _____

(b) Annual turnover : _____ (in INR)

(c) Number of employees in firm : _____

(d) Details of manufacturing infrastructure : _____

(e) Earlier contracts with Indian Ministry of Defence/ Government agencies :

<u>Contract Number</u>	<u>Equipment</u>	<u>Quantity</u>	<u>Cost</u>

6. **Certification by Quality Assurance Organisation.**

<u>Name of Agency</u>	<u>Certification</u>	<u>Applicable from (Date & Year)</u>	<u>Valid till (Date & Year)</u>

7. **Details of Registration.**

<u>Agency</u>	<u>Registration No</u>	<u>Validity (Date)</u>	<u>Equipment</u>
DGS&D			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
Any other Government Agency			

8. **Membership of FICCI/ASSOCHAM/CII or other Industrial Association.**

Name of Organisation

Membership Number

9. **Equipment/ Product Profile (to be submitted for each product separately).**

(a) Name of Product : _____

(IDDM Capability be indicated against the product)

(Should be given category wise for e.g. all products under night vision devices to be mentioned together)

(b) Description (attach technical literature) :- _____

(c) Whether OEM or Integrator : _____

- (d) Name and address of Foreign collaborator (if any) : _____
- (e) Industrial Licence Number : _____
- (f) Indigenous component of the product (in percentage) : _____
- (g) Status (in service/design & development stage) : _____
- (h) Production capacity per annum : _____
- (j) Countries/ agencies where equipment supplied earlier (give details of quantity supplied):

(k) Estimated price of the equipment _____

10. Alternative for meeting the objectives of the equipment set forth in the RFI.

11. Any other relevant information : _____

12. **Declaration**. It is certified that the above information is true and any changes will be intimated at the earliest.

Note: Para 44 and Appendix F to Chapter II may be referred.

(Authorised Signatory)