

REQUEST FOR INFORMATION

LIFE EXTENSION OF 300MM SMERCH ROCKETS (04 VARIANTS) FOR INDIAN ARMY BY PRIVATE INDIAN VENDORS

General

1. The Master General of Sustenance, Integrated HQs of Ministry of Defence (Army), invites Request for Information (RFI) for life extension of SMERCH ammunition for Indian Army by Private Indian vendors.

Purpose of the RFI

2. To identify prospective vendors for participating in the proposal for life extension of all variants of Smerch ammunition and facilitate preparation of Request for Proposal (RFP).

Overview of the Ammunition

3. **Smerch Rocket Variants**. 300mm SMERCH Rockets of following four (04) variants are used with SMERCH Multi Launcher Rocket System (MLRS) of the Indian Army, which are proposed to be offered for Life Extension by Private Indian vendors:-

S No	Nomenclature
(a)	300mm 9M55S Fuel Air Explosive War Head
(b)	300mm 9M55F HE Fragmentation SWH-70 Km
(c)	300mm 9M528 HE Fragmentation SWH-90 Km
(d)	300mm 9M55K Cluster War Head

4. **Technical and Operational Parameters**. The technical and operational parameters of the 300mm SMERCH Rocket ammunition are attached as per following details:-

S No	Nomenclature	Technical Specification
(a)	300mm 9M55S Fuel Air Explosive War Head	Appendix 'A'
(b)	300mm 9M55F HE Fragmentation SWH-70 Km	
(c)	300mm 9M528 HE Fragmentation SWH-90 Km	
(d)	300mm 9M55K Cluster War Head	

5. **Likely Quantity**. To be intimated during pre-submission meeting. Exact quantities will be included in the RFP.

Overview of Life Extension Methodology

6. **Life Extension Procedure.**

(a) The LE methodology of any ammunition depends on its design configuration, composition and quantity of explosives and electronic/ electrical components. It is based on visual inspections, climatic tests, static proof in laboratory, disassembling and testing of components including safety and arming mechanism, warhead/ sub-munitions including their chemical analysis, etc and thereafter dynamic firing of selected ammunition. The ibid tests are conducted, as applicable, based on the methodology prescribed by the OEM and/ or QA agency.

(b) Based on results of the tests conducted, repair, if required, and sentencing of ammunition is carried out for the duration the shelf life is to be extended.

(c) The first Life Extension is planned in the last year of the OEM stated shelf life of the ammunition. Subsequent Life Extensions may also be conducted, as the life extension of an ammunition system is generally planned up to double the service life of the ammunition.

7. **Life Extension Technology.**

(a) The life extended 300mm SMERCH Rockets (04 Variants) for use with SMERCH Rocket System of Indian Army as mention above will have to meet all specifications of in-service ammunition procured from Foreign OEM (M/s ROE, Russia).

(b) The prospective vendors will be free to select their technology partners, negotiate and obtain transfer of technology (ToT). The technology partners could be indigenous DPSU/ DRDO/ any foreign vendor. Indian Army and MoD will have no liability in ToT agreements between the participating vendor and their ToT partners.

(c) Sample of the above rockets are available various Ammunition Depots of Indian Army. Vendors desirous of seeing the sample may approach the undersigned at the contact available mentioned at Para 17.

8. **Life Extension Infrastructure.** The Govt of India will neither provide any special concessions nor any funding/ investment to facilitate setting up requisite infrastructure by participating firms.

Selection/ Short Listing Process

9. The selection and procurement process will follow the provisions of DPM 2009.

10. **RFP.** The RFP is proposed to be an Open Tender Enquiry (OTE) on two bid system.

11. **Financial Evaluation.** The financial evaluation of participating companies will be based on the under mentioned aspects:-

(a) **Consolidated Turnover.** ₹ 10 Crore for each of lastJKcopier three financial years based on financial statements audited under the relevant Companies Act and adopted and approved by the board of directors/shareholder (excluding NBFCs and any associate company)

(b) **Net Worth.** Net Worth at gross book value as specified in the last consolidated financial statements audited under the relevant Companies Act and adopted and approved by the board of directors/shareholders (excluding NBFCs and any associate company) of ₹ 10 Crore.

(c) **Credit Rating.** Applicant Company to have minimum credit rating (long term/issuer rating) equivalent to “BBB” as on the date of the application by any of the credit rating agencies approved by Securities and Exchange Board of India (SEBI).

(d) **Other Conditions.**

(i) Promoters and directors of the Applicant Company and the Segment Group Co. should not be willful defaulters to the banking system or their loans from banks and financial institutions have been classified as non-performing assets by such institutions as on the date of the application. They should not be listed on exporters’ caution list of the Export Credit Guarantee Corporation or be otherwise banned or blacklisted by Reserve Bank of India (“RBI”), Gol, other government agencies and Public Sector Undertakings etc. in the context of procurement or otherwise. This should be supported by a certificate(s) of the statutory auditor(s).

(ii) The applicant company or the segment company shall not be under Corporate Debt Restructuring Mechanism (“CDR”)/ Strategic Debt Restructuring Scheme/ Joint Lender Forum’s corrective action plan, as prescribed by the RBI at the time of submission of application; and their account with any bank is not classified in ‘Non-performing asset’ category at the time of submission of the application. The above should be supported by a certificate(s) of the statutory auditor(s).

12. **Technical Evaluation.** The technical evaluation is proposed to be a two stage process – verification of technical documentation submitted with the bid in response to RFP, followed by evaluation of the life extension process and scope of work by participating vendor or by ToT partner. In addition a technical committee to evaluate ability of bidders to undertake life extension of the rockets may be formed by IHQ of MoD (Army), under the aegis of DGQA. The parameters of such evaluation if included, will be elaborated in the RFP.

13. **Commercial Evaluation.** Commercial evaluation will only be carried out for firms who have qualified in all respect the technical evaluation.

Contract and Deliveries

14. The selected vendor, post technical and commercial evaluation and thereafter signing of contract, will be provided with appropriate number of rockets of each variant for carrying out Life Extension as per laid down timelines, on NCNC basis. To facilitate the same initial proofing, testing and firing ranges/ facilities will be provided to the vendors at a cost to be borne by them. The acceptance of rockets by Army's QA/QC agency will be by lots as per acceptance test procedures negotiated during the contract negotiations. These will include documentation to ensure process QC.

RFI Response Requirements

15. Indian vendors interested in participating in the proposal may forward their inputs to cover aspects as per RFI questionnaire at **Appendix 'B'**.

16. **Licensing/ Clearances**. The participating firms must be in possession of a valid explosive license or should have applied for the same, *the details of which will be submitted along with RFI response*. The firms will be responsible to obtain necessary clearances from MHA (under Arms Act), and any other permissions necessary for Life extension of 300 mm SMERCH rockets.

17. **Clarifications/ Queries**. Last date for submission of queries and clarifications is **M + 15 Days**. Communication received after **1600 Hr (4:00 PM)** on **M + 15 Days** will not be responded. Respondents should provide details of their contact person's telephone & mobile Nos, Fax, email and full address(s) to ensure that replies to queries to RFI can be conveyed promptly. If MoD/ Army, in its absolute discretion deem that the originator of the question will gain an advantage by a response to a question, then MoD/ Army reserves the right to communicate such response to all respondents. Queries and clarifications regarding the RFI should be sent to under-mentioned officer. Queries sent through post must in addition be sent on the email provided below: -

Primary Contact Person.

GSO-1 Proc (Amn)
 MGS Branch
 IHQ of MoD (Army)
 Room No 214, 'A' Wing,
 Sena Bhawan
 New Delhi - 110011
 Email ID: pisces13.libra26@gov.in
 Contact No. **011-21411875**

18. **Industry Interaction/ Pre-Submission Meeting**. After issue of RFI, a briefing of interested manufactures will be carried out on **M + 20 Days** at **1100 Hr** at **Room No. 243, MGS Conference Hall** to further enumerate the Indian Army's requirement and clarify any queries that will enable fielding of response.

19. **RFI Response Submission**. The response to RFI must be submitted in a sealed cover along with an application duly signed and stamped on all pages by an authorized signatory. The same must reach on or before **M + 40 Days** in the following manner: -

(a) Two hard copies and two soft copies are required to be submitted in sealed covers labeled **“Proposal for Life Extension of 300 mm SMERCH Rockets (04 Variants) for Indian Army”** along with name of bidding firm on the cover page/CD at the following address:-

GSO-1, Proc (Amn)
MGS Branch
IHQ of MoD (Army)
Room No. 214A, 'A' Wing
Sena Bhawan, New Delhi -110 011

(b) If required additional copies may have to be submitted on request.

(c) The response should be in English language and font size 12 (including text for footnotes, headers etc).

(d) Submission after the due date and time may **NOT** be accepted.

20. **Completeness of Response**. Prospective vendors are advised to study all the RFI documents carefully. Submission of documents shall be deemed to have been done after careful study and clear understanding of its implications. The response on previous experience must showcase the vendors capability to execute the proposal (similar assignments, expertise, skill sets etc).

21. **Right to Terminate the Process**. The MoD/ Army reserves the right to issue a corrigendum to RFI, withdraw the RFI or/and reject any request for tender document or not to proceed with subsequent stages without assigning any reason at any stage.

22. **Ownership Rights**. All submissions, including any accompanying documents, will become the property of MoD/ Army. Recipients shall be deemed to be granted all rights to reproduce whole or any portion of their submission for the purpose of evaluation, to disclose the contents of the submission to other recipients who have registered a submission and to disclose and/or use the contents of the submission as the basis for any resulting RFI process, notwithstanding any copyright or other intellectual property right that may subsist in the submission or accompanying documents.

23. **Non-Disclosure Agreement**. The manufacturer will be subject to non-disclosure agreement.

General Information

24. **Disclaimer.**

(a) The RFI document contains statements derived from the information that is believed to be reliable as on date, but does not purport to provide all of the information that may be necessary or desirable to enable an intending contracting party to enter into a contract or arrangement with MoD/ Army in relation to the provision of services.

(b) Subject to any law to the contrary, and to the maximum extent permitted by law, MoD/ Army and its officers, employees, contractors, agents, and advisers disclaim all liability from any loss or damage (whether foreseeable or not) suffered by any person acting on or refraining from acting because of any information including forecasts, statements, estimates, or projections contained in this request for RFI document or conduct ancillary to it whether or not the loss or damage arises in connection with any negligence, omission, default, lack of care or misrepresentation on the part of MoD/ Army or any of its officers, employees, contractors, agents, or advisers.

25. **Recipient's Obligation to Inform Itself.** The recipient must conduct its own investigation and analysis regarding any information contained in the RFI document and the meaning and impact of that information.

26. **Costs to be Borne by Respondents.** All costs and expenses incurred by respondents in any way associated with the development, preparation, and submission of responses, including attendance at meetings, discussions, demonstrations, etc. and providing any additional information required by MoD/ Army, will be borne entirely and exclusively by the respondent.

27. **No Legal Relationship.** No binding legal relationship will exist between any of the respondents and MoD/ Army until execution of a contractual agreement. The selection in the RFI or participation in the RFI process doesn't qualify for any contractual obligation with MoD/ Army.

28. Participating vendors are requested to submit RFI response by due date along with details as per formats at **Appendix 'C' to 'J'** attached.

Sd/-xxxxxx
(VS Kahlon)
Col
Col Proc (Amn & MsIs)

Case No : A/20082/Amn/RFI/300mm/SMERCH/MGS/Brig Proc (A)

Dated : 27 Jan 2023

TECHNICAL SPECIFICATION 300MM SMERCH ROCKET (04 VARIANTS)

Ser No	Technical Parameter	Specified Criteria
1.	300mm 9M55S Fuel Air Explosive War Head	
(a)	Range of fire	25 to 70 km
(b)	Calibre	300mm
(c)	Weight of RP	813 kg
(d)	Length of RP	7600mm
(e)	Temperature range for combat employment	From -50°C to +50° C
(f)	Weight of warhead	258kg
(g)	Weight of explosive charge	100 kg
(h)	Diameter of a thermal field with the temperature exceeding 1000°C	25m
(j)	Fuze	Instantaneous impact fuze
2.	300mm 9M55F HE Fragmentation SWH-70 KM	
(a)	Range of fire	25 to 70 km
(b)	Calibre	300mm
(c)	Weight of RP	813 kg
(d)	Length of RP	7600mm
(e)	Temperature range for combat employment	From -50°C to +50° C
(f)	Weight of warhead	258kg
(g)	Weight of explosive charge	95 kg
(h)	Number /weight of submunitions	1100/50 pcs./g
3.	300mm 9M528 HE Fragmentation SWH-90 KM	
(a)	Range of fire	25 to 90 km
(b)	Calibre	300mm
(c)	Weight of RP	820 kg
(d)	Length of RP(with EPT)	7600mm
(e)	Temperature range for combat employment	From minus -50°C to +50° C
(f)	Weight of warhead	243 kg
(g)	Weight of explosive charge	95 kg
(h)	Number /weight of submunitions	800 pcs.
4.	300mm 9M55K Cluster War Head	
(a)	Range of fire	20 to 70 km
(b)	Calibre	300mm
(c)	Weight of RP	798 kg
(d)	Length of RP	7600mm
(e)	Temperature range for combat employment	From -50°C to +50° C
(f)	Weight of warhead	243kg
(g)	Number of submunitions	72
(h)	Weight of submunition	175 kg
(j)	Diameter /length of submunition	69/263 mm
(k)	Weight of submunition explosive charge	0.32kg
(l)	Number of the preformed fragments in a submunition: (i) Weighting 4.5 g (ii) Weighting 0.75 g	96 360
(m)	Fuze mechanism	Direct action impact fuze
(n)	Submunition slef –destruction time	110 sec.

RFI QUESTIONNAIRE**General Requirements**

1. Is the Company/ Firm an Indian Private/ Public Enterprise with own registered office and operations in India. Supporting documents will be required at RFP stage.
2. Has the Company/ Firm including Indian/ ToT partners been banned at any time by State/ Central Govt.?
3. Are you willing to participate in the proposal for Life Extension of 300 mm SMERCH Rockets (04 Variants) under own arrangement?

Financial Strength of Manufacturer

4. What is the annual turnover of the Company for the last three financial years?
5. What is the net worth of the Company for the last three financial years? Support documents will be required at RFP stage.
6. Does the firm meet all the proposed Financial Evaluation criteria listed at Para 8 (b) of RFI.

Licensing/ Permits

7. Does the Company/ Firm have the requisite explosive handling licenses & clearances for ammunition handling from Govt. of India?
8. **If answer to 07 is yes**, is the license from MHA and/or Ministry of Industries for handling and manufacture of ammunition.
9. **If answer to 07 or 08 is no**, has the Company/ Firm applied for obtaining license to manufacture ammunition in India?
10. **If answer to 09 is yes**, then what is the anticipated time to obtain licenses/ permission?
11. Is the Company ISO:9001 compliant on the date of response of RFI?

Manufacturing, Infrastructure & Technology

12. Does the Company/ Firm have any past experience in carrying out Life extension of ammunition or manufacture of any components required for ammunition?
13. **If answer to 12 is yes**, the details thereof along with infrastructure available to be submitted by Company/Firm.
14. Does the company have any proofing & testing facilities?

15. **If answer to 14 is no**, then is it proposed to set up the same as part of the project?
16. Do you have an in-house capability/ expertise or Intellectual Property Right (IPR) to carryout Life extension/ manufacture of ammunition? If yes, please specify.
17. What procedures/ methodology do the Company/ Firm visualize to carryout Life extension of Smerch Rockets?
18. What will be the max life extension period, which can be offered by the Company/ Firm? Please support with requisite justification.
19. Is the key technology or raw material for life extension of SMERCH Rockets available in India? If proposed to be sourced ex import, please provide details of the same?
20. Does the Company/ Firm have a Joint Venture/ agreement/ MOU/ partnership with foreign OEM for Transfer of Technology for Life extension/ manufacture of ammunition in India? If Yes, please indicate the details.
21. Is the company part of a consortium? If Yes, please indicate the details of the members of the consortium and the lead agency.
22. What is the visualized cost for Transfer of Technology and development of infrastructure for life extension of SMERCH Rockets in which the company is willing to participate?
23. What is the level/ percentage of indigenization in terms following likely to be achieved.
 - (a) Cost
 - (b) Technology
 - (c) Raw Material
 - (d) Overall content.
24. What is the minimum number of Smerch Rockets required by the Company/ Firm to carryout initial Life Extension and establish their capability?
25. What is the maximum time required by the Company/ Firm to carry out the initial Life Extension of the Smerch Rockets and thereafter offer them for inspection and/ or dynamic firing?
26. What will be the maximum capability of the Company/ Firm for undertaking bulk Life Extension including repairs of rockets, if required?
27. What is the likely timelines and delivery schedule for bulk quantity of Smerch Rockets, post accord of BPC?
28. Is the Company/ Firm willing to offer ammunition for evaluation on No Commitment No Cost (NCNC) basis.

Miscellaneous

29. Is the Company willing to adhere by Non-Disclosure Agreement?
30. What is the broad plan/ strategy for implementation of proposal for manufacture of Ammunitions?
31. Any other information which the company feels to submit which will enable manufacture of Ammunition in India.
32. Any suggestions to facilitate preparation of RFP for Make in India ammunition manufacture (attach separate sheet if necessary).
33. Necessary warranty clause and free replacement during warranty period may be included.

COVERING LETTER

Company Letter Head

GSO-1 Proc (Amn)
MGS Branch
IHQ of MoD (Army)
Room No – 214A, 'A' Wing
Sena Bhawan
New Delhi -110 011

Reference: RFI for Life Extension of 300mm SMERCH Rockets (04 Variants) by Private Indian Vendors

Dear Sir,

1. This is to notify you that our company intends to submit a proposal in response to the RFI request for Life extension of following ammunition:-

S.No	Nomenclature
(a)	300mm 9M55S Fuel Air Explosive War Head
(b)	300mm 9M55F HE Fragmentation SWH-70 Km
(c)	300mm 9M528 HE Fragmentation SWH-90 Km
(d)	300mm 9M55K Cluster War Head

2. Primary and Secondary contacts for our company are: -

	<u>Primary Contact</u>	<u>Secondary Contact</u>
Name:		
Title:		
Company Name:		
Address:		
Phone		
Mobile:		
Fax:		
E-Mail		

3. We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered are true, accurate, verifiable and complete. The response includes all information necessary to ensure that the statements therein do not in whole or in part mislead MoD / Army in its short listing process.

4. We fully understand and agree to comply that verification, if any of the information provided here is found to be misleading the short listing process or unduly favors our company in the short listing process, we are liable to be dismissed from the selection process.

5. It is hereby confirmed that I/we are entitled to act on behalf of our corporation/company/firm/organization and empowered to sign this document as well as such other documents, which may be required in this connection.

6. This response to RFI is valid until DD MM YY<minimum two years>.

Dated this _____ Day of _____ 2022

(Signature)
(In capacity of)
Duly authorized to sign the RFI response for and on behalf of

Sincerely,

Signature:
Name:
Title/Appointment:
Name and Address of Company
Date:
(Seal/ Stamp of System Integrator)

Certificate as to Authorized Signatories

I, certify that I am _____ of the _____, and that _____ who signed the above response is authorized to bind corporation/company by authority of its governing body.

(Company Seal)

Date: (Authorized Signatory of Company)

FORMAT: DETAILS OF THE ORGANIZATION

Details of the Organization	
Name	
Nature of the legal status in India	
Nature of business in India	
Date of Incorporation	
Date of Commencement of Business	
Address of the Headquarters	
Address of the Registered Office in India	
Details of the Contact Person (incl Address, Phone, Fax and e-mail)	
Other Relevant Information	

Note:- Please attach relevant certification/documentary proofs

Company Seal

Place: _____

Date: _____

(Authorized Signatory of Company)

FORMAT-FINANCIAL INFORMATION

Financial Information	FY 2019-20	FY 2020-21	FY 2021-22
Total Turnover (in INR crores)			
Profit After Tax (in INR crores)			
Net worth (in INR crores)			
Other Relevant Information			

Note:- Please attach audited relevant balance sheets as documentary proofs

Company Seal

(Company Secretary/ Statutory Auditor)

Place: _____

Date: _____

FORMAT - IMPLEMENTATION EXPERIENCE

Assignment name	
Name of Client	
Address	
Start Date (Month/Year) Completion Date (Month/Year)	
Supply Completion Certificates	
Acceptances from Concerned Officers	
Approx value of the contract	
Duration of contract (months)	
Approx value of the services provided under the contract (in Current INR)	
Licensing	
Name of senior professional staff of your firm Project Manager:	
Narrative Description of Project:	
Description of Actual Services Provided by Vendor :	

Note:- Please attach relevant documentary proofs

Company Seal

Place _____

Date _____

(Authorized Signatory of Company)

QUALITY CERTIFICATION ASSESSMENT

Name of Certificate	
Valid Till	
Certified Entity	
Units/Locations Assessed	
Issuing Authority	
Other Relevant Information (Enclose copy the certificate)	

Note:- Please attach copy of the certificate

(Authorized Signatory of Company)

NON-DISCLOSURE AGREEMENT

(To be provided on the letterhead of the company)

It is certified that the company or any representative of the company or agents authorized by the company will not disclose any information gained by them or their representatives or agents, while interacting with the personnel of the MoD / Army or any documents received by them or any study carried out by them, directly or indirectly to any company or institution or press.

Company Seal

(Authorized Signatory of Company)

Place _____

Date _____

Appendix 'J'**COMPLIANCE SHEET FOR CAPABILITIES OF LIFE EXTENSION**

The manufacturer has to mention conformity of the Life extended ammunition to all the technical and operational parameters proposed as per **Appendix A**.

Table 1

<u>Ser</u>	<u>Technical Parameters</u>	<u>Yes/No</u>
1.		
2.		

Table 2

<u>Ser</u>	<u>Operational Parameters</u>	<u>Yes/No</u>
1.		
2.		

(Authorized Signatory of Company)

Note:- To be submitted separately for each ammunition the vendor desires to participate in.