REQUEST FOR INFORMATION (RFI) FOR
PROCUREMENT OF FSAPDS AMN FOR TANKS T-72 AND T-90
(INDIAN EQUIVALENT OF AMK-339)

1. Indian Army is looking for high quality 125 mm FSAPDS amn for in-service Tk T-72 and Tk T-90. MGO’s Branch Integrated HQ of the MoD(Army) requests urgent information from reputed Original Equipment Manufacturers (OEM) of amn for supply of good quality amn for Tk T-72 and T-90 to be used by the Indian Army.

2. Initial requirement may be approximately 75,000 to 1,00,000 to be supplied within 12 – 18 months of signing of contract. Broad tentative specifications for the amn is enclosed. Firms are requested to forward comprehensive details of their product meeting the broad specifications enclosed.

3. Interested parties with annual turn-over of not less than Rs.100 crore should clearly mention their ability to deliver a product as per these broad specifications.

4. Please also furnish the following details:-

   (a) Proof of being Original Equipment Manufacturer (OEM).

   (b) Technical literature of the amn.

   (c) Test methods for checking of quality parameters.

   (d) Product range.

   (e) Annual turn over of last three years (i.e for 2007-08, 2008-09 & 2009-10) with past experience in the field.

   (f) Annual production capacity for last two years viz 2008-09 & 2009-10

   (g) Details of supplies to Defence Forces of other countries on successful completion of large orders previously undertaken.

   (h) Willingness to offer amn for technical evaluation in India prior to signing of contract.

   (j) Willingness for Transfer of Technology (TOT) to Indian vendor for indigenous production in the country.
(k) The TOT may be obtained as part of the contract for procurement of amn or it may be processed separately. Willingness be stated in both cases.

5. Firms are requested to confirm availability of a product envisaged as above and that they will respond to a Request for Proposal (RFP), if placed on them. Response to the RFI is expected by 1300 hours of 25 Sep 2010 at the following address:

 Dir MGO/Staff and Coord
 MGO Branch
 Room No. 218, ‘A’ Wing, Sena Bhawan
 IHQ of MoD (Army), New Delhi- 110 011
 Tele- 23018137
 Fax- 23018137

6. The envelope must be super scribed with ‘RESPONSE TO RFI FOR 125 mm FSAPDS amn’ and should be delivered on any working day by the due date in the MGO Branch tender box placed at Gate No.2 Sena Bhawan.
OPERATIONAL & TECHNICAL CHARACTERISTICS AND FEATURES
(INDIAN EQUIVALENT OF AMK-339)

1. The proposed ammunition and its components should be fully in Metric system.

2. **Caliber.** The ammunition should be capable of being fired from 125 mm Smooth Bore Tank Gun of T-90 and T-72 tks.

3. **Shelf Life.** Not less than 15 (fifteen) years under Indian Tropical Conditions. Specification with regard to explosives fillings with test procedures to evaluate the shelf life be made available to DGQA (Indian QA Agency). Literature substantiating the claim that explosive fillings would give stipulated shelf life need to be made available.

**Technical Characteristics**

4. The major technical characteristics are as under:-

   (a) Round Designation of Mark - 3BbM17
   (b) Projectile Designation or Mark - 3bM-42
   (c) Mass of Shell or Shot (kg) - 7.05 kg
   (d) Mass of Round (kg) - 20.4 kg
   (e) Primer - GUV-7
   (f) Designation of SCC - 4>K 63
   (g) Increment Propelling charge - 9.50 kg
   (h) Muzzle Velocity (m/s) - 1700
   (j) Effective Range (M) - Not less than 2700
   (k) Consistency group of Rds - HSD & VSD ≤ 0.35 mil
   (l) Tracer - 3YPZM
(m) Armour Piercing Characteristic. The depth of perforation (piercing) in mm.

(n) Nominal Pressure - 440 M Pa
(o) Maximum Pressure - 530 M Pa

5. **Environmental Condition**

(a) Minimum Temperature for use - -40°C
(b) Maximum Temperature for use - +50°C
(c) Minimum Temperature for storage - -40°C
(d) Maximum Temperature for storage - +50°C
(e) Maximum Relative Humidity - 95%
(f) Average Relative Humidity - 65%
(g) Mean value of year’s Temp - 32°C
REQUEST FOR INFORMATION (RFI) FOR PROCUREMENT OF FSAPDS AMN FOR TANKS T-72 AND T-90 (INDIAN EQUIVALENT OF AMK-340A)

1. Indian Army is looking for high quality 125 mm FSAPDS amn for in-service Tk T-72 and Tk T-90. MGO’s Branch Integrated HQ of the MoD(Army) requests urgent information from reputed Original Equipment Manufacturers (OEM) of amn for supply of good quality amn for Tk T-72 and T-90 to be used by the Indian Army.

2. Initial requirement may be approximately 75,000 to 1,00,000 to be supplied within 12 – 18 months of signing of contract. Broad tentative specifications for the amn is enclosed. Firms are requested to forward comprehensive details of their product meeting the broad specifications enclosed.

3. Interested parties with annual turn-over of not less than Rs.100 crore should clearly mention their ability to deliver a product as per these broad specifications.

4. Please also furnish the following details:-
   (a) Proof of being Original Equipment Manufacturer (OEM).
   (b) Technical literature of the amn.
   (c) Test methods for checking of quality parameters.
   (d) Product range.
   (e) Annual turn over of last three years (i.e for 2007-08, 2008-09 & 2009-10) with past experience in the field.
   (f) Annual production capacity for last two years viz 2008-09 & 2009-10
   (g) Details of supplies to Defence Forces of other countries on successful completion of large orders previously undertaken.
   (h) Willingness to offer amn for technical evaluation in India prior to signing of contract.
(j) Willingness for Transfer of Technology (TOT) to Indian vendor for indigenous production in the country.

(k) The TOT may be obtained as part of the contract for procurement of amn or it may be processed separately. Willingness be stated in both cases.

5. Firms are requested to confirm availability of a product envisaged as above and that they will respond to a Request for Proposal (RFP), if placed on them. Response to the RFI is expected by 1300 hours of 20 Sep 2010 at the following address:-

   Dir MGO/Staff and Coord
   MGO Branch
   Room No. 218, ‘A’ Wing, Sena Bhawan
   IHQ of MoD (Army), New Delhi- 110 011
   Tele- 23018137
   Fax- 23018137

6. The envelope must be super scribed with ‘RESPONSE TO RFI FOR 125 mm FSAPDS amn’ and should be delivered on any working day by the due date in the MGO Branch tender box placed at Gate No.2 Sena Bhawan.
OPERATIONAL & TECHNICAL CHARACTERISTICS AND FEATURES
(INDIAN EQUIVALENT OF AMK-340A)

General

1. The proposed amn and its components should be fully in Metric sys.

2. **Caliber.** The amn should be capable of being fired from 125 mm Smooth Bore Tank Gun of T-90 and T-72 tks.

3. **Shelf Life.** Not less than 15 yrs under Indian Tropical Conditions. Specification with regard to explosive fillings with test procedures to evaluate the shelf life be made available to DGQA (Indian QA Agency). Literature substantiating the claim that explosive fillings would give stipulated shelf life need to be made available.

Technical Characteristics

4. The major technical characteristics are as under:-

   (a) Round Designation of Mark - CL3254M
   (b) Projectile Designation or Mark - CL3254M
   (c) Mass of Shell or Shot (kg) - 7.89 kg
   (d) Mass of Round (kg) - 21.0 kg
   (e) Primer - GUV-7
   (f) Designation of SCC - CL3254M
   (g) Muzzle Velocity (m/s) - 1660
   (h) Effective Range (M) - Not less than 3000
   (j) Armour Penetration - 225 mm RHA plate at 62 deg NATO target.
   (k) Pressure amb (MPa) - 530
(l) **Projectile.** The diameter of the projectile should not exceed 124.85 mm. The projectile should be painted and marked in accordance with the applicable drawing. Should be withstand firing from a D81 gun at 600 Mpa.

(m) **Tracer.** Should be flame ignited when fired within the temperature range of -40°C to + 50°C the tracer should be visible at ranges from 200 to 2000 meters.

(n) **Combustible Cartg Case, Residues after Firing.** In a barrel not fitted with a bore evacuator or blower, no glimmering or burning residues are acceptable, including residues at the breech level in the operating temperature range of each round. Unburned Debris of 0.05 gm is acceptable however these should preferably not be in each chamber/bore. For a maximum of 5% of the cartridges that have undergone environmental treatment, the total unburned residues recovered over the barrel length may reach 5 grams per firing.

5. **Environmental Condition**

   (a) Minimum Temperature for use - -40°C
   (b) Maximum Temperature for use - +50°C
   (c) Minimum Temperature for storage - -40°C
   (d) Maximum Temperature for storage - +50°C
   (e) Mean value of year’s Temp - 21°C
   (f) The test should not be conducted during adverse weather conditions.