

## 852731-2025 - Consultation

Romania – Bombs – 120 mm heavy mortar ammunition for CARDOM SPEAR mortar system  
OJ S 246/2025 22/12/2025  
Pre-market consultation notice  
Supplies

### 1. Buyer

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#### 1.1. Buyer

Official name: Military Unit 02550 Bucharest  
Email: [elicitatie@dpa.ro](mailto:elicitatie@dpa.ro)  
Legal type of the buyer: Central government authority  
The buyer is a contracting entity  
Activity of the contracting authority: Defence

### 2. Procedure

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#### 2.1. Procedure

Title: 120 mm heavy mortar ammunition for CARDOM SPEAR mortar system  
Description: Restricted tender procedure  
Internal identifier: 11/1/CFA-C/2025

##### 2.1.1. Purpose

Main nature of the contract: Supplies  
Main classification (cpv): 35333100 Bombs

##### 2.1.2. Place of performance

Country: Romania  
Anywhere in the given country

##### 2.1.4. General information

**Legal basis:**  
Directive 2009/81/EC  
Emergency ordinance 114/2011

### 5. Lot

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#### 5.1. Lot: LOT-0001

Title: 120 mm heavy mortar ammunition for CARDOM SPEAR mortar system  
Description: 120 mm heavy mortar ammunition for CARDOM SPEAR mortar system, the same version as the one used on Piranha 5 (1.6 meter barrel length)  
Internal identifier: 11/1/041-C/2025

##### 5.1.1. Purpose

Main nature of the contract: Supplies  
Main classification (cpv): 35333100 Bombs

##### 5.1.2. Place of performance

Country subdivision (NUTS): București (RO321)  
Country: Romania

### 5.1.6. General information

Additional information: Preliminary market consultation Introduction General Directorate for Armaments (GDA) plans to initiate, in a near future, a tender for a Frame Agreement for the acquisition of 120 mm Heavy Mortar Ammunition. Requested Ammunition 120mm High Explosive (HE) HE Ammunition to be used against personnel, unarmored vehicles, light building structures, communication structures, etc. All ammunition data provided in response to this list (including Firing Tables and FCI) must therefore be from 120 mm caliber rounds that are proven to have been previously and successfully fired with the 120mm CARDOM Spear Mortar System, the same version as the one the PIRANHA 5 (1.6m barrel length) is equipped with. Purpose The purpose of this preliminary market consultation is to understand how the best possible tender can be arranged by GDA. Use scenarios The ammunition is planned to be used for training as well as for military operations conducted by Romanian Army. Process GDA will ask potential suppliers of 120mm Heavy Mortar Ammunition to review and reply to the questions presented in the Technical Requests for High Explosive (HE) 120mm Heavy Mortar Ammunition. Others Please, be aware that currently, GDA does not have the complete transparency of the volumes. GDA would like to emphasize, that it will not influence your participation in a possible future tender organized by GDA, should you decline to participate or only partly fill out the questions presented in the Technical Requests for High Explosive (HE) 120mm Heavy Mortar Ammunition. We ask you to respond in writing. GDA reserves the right to contact specific responders in regard to further explanation of the answers given, and/or obtaining more information on the basis of the answers. For any information, please contact GDA through the email address: [elicitatie@dpa.ro](mailto:elicitatie@dpa.ro). The response and any relevant technical datasheet will be sent to the [elicitatie@dpa.ro](mailto:elicitatie@dpa.ro) no later than Thursday 22nd of January, 2026 at 16:00 Central European Time.

TECHNICAL REQUESTS FOR HIGH EXPLOSIVE (HE) 120MM HEAVY MORTAR AMMUNITION A) Regarding the Mortar Bomb 1 Can the HE ammunition be used with a 120mm CARDOM Spear Mortar System mounted on Piranha 5 with a 1.6m barrel? 2 Was the ammunition previously checked and verified, including but not limited to firing pressures, safety analysis and safety tests and is the ammunition consequently considered qualified to be used with 120mm CARDOM Spear Mortar System same model as the one mounted on Piranha 5? Please detail these aspects. 3 What are the dimensions (length, diameter, mass) for the complete ammunition round? (Where length is defined as "tail to sealing ring for the fuze", and diameter is defined as "the widest part of the bomb"): Mass [kg], Bomb outer maximum diameter [mm], Bomb outer minimum diameter [mm], Fin tail circle maximum diameter [mm], The distance from percussion cap to obscuration ring [mm], The distance from end of the tail to obscuration ring [mm]. 4 What is the type of Explosives Fillings used? 5 What is the amount of Explosives Mass? [kg] 6 What is the radius of "Lethal Area" [m] and your definition of "Lethal Area? 7 What is the kill probability [%] at 25m radius against unprotected personnel? 8 What is the kill probability [%] at 30m radius against unprotected personnel? 9 What is the "Safe Splinter Distance" in [m] for unprotected personnel in the open and your definition of "Safe Splinter Distance"? 10 What is the max. pressure for the different increment charges, when the ammunition is fired from a 1.6m barrel 120mm CARDOM Spear Mortar System. 11 What is the pressure curves available for 1.6m barrel 120mm CARDOM Spear Mortar System. 12 What is the max. Firing Range. [m] from a 1.6m barrel. (If the firing range depends on the fuze type, pls. advise the max. firing range for the different fuze types available) 13 What is the Moment of Inertia Ixx [Kg\*m2] and the Moment of Inertia Iyy [Kg\*m2]" 14 Can you provide the following data that must be available for the firing table for each range and charge: a. Range per Firing table [m]; b. Quadrant elevation [emil]; c. Time of flight per Firing table & charge d. Correction to bearing: 1 KNOT CROSSWIND [emil] e. Range wind 1 KT (Dec-Int) f. Ballistic air

temperature 1% (Dec-Int) g. Ballistic air density 1% (Dec-Int) h. Probable Errors by Range & deflection (from similar mortar) [m] i. Muzzle velocity (21°C) (from similar mortar 1.6m barrel 120mm CARDOM Spear Mortar System) [m/s] j. STD&MEAN (mortar) k. VERTEX HEIGHT [m] l. Polynomial coefficients to change in muzzle velocity due to a non-standard charge temperature (different from 21 degrees) or Table E (Propellant Temperature) from STANAG 4119" 15 What is the expected deviation in length (PEr), in % of the firing distance? [%] 16 What is the expected deviation in width (PEd), in % of the firing distance? [%] B) Regarding the Insensitive Munition 17 Has the ammunition been evaluated in regards to IM, which level? (according to STANAG 4439, Policy for Introduction and Assessment of Insensitive Munitions (IM) C) Regarding the Fuze 18 Pls. provide the names and type of fuzes supplied by your company or sub-supplier (Please state name of sub-supplier). 19 Which are the fuze types (Electrical or Mechanical)? 20 Which are the fuze functions you can provide (Point Detonation, Proximity, Delay, etc.) 21 What is the burst height and tolerance regarding Proximity Function? [m] 22 Pls provide the safety measures/mechanisms implemented in the fuzes. 23 Can you supply a fuze with two independent safety devices compliant with STANAG 4187? (Arming shall only take place if two mutually independent, application specific, environmental conditions are satisfied) 24 Pls. state the min. Muzzle Safety Distance. 25 Pls. state if the fuze has a "Safety pin" (Yes or No) 26 Pls. describe the necessary safe handling and control procedure when the ammunition is prepared for firing. D) Regarding the Packing 27 What is the dimensions for the individual packing containers, for one round (Length, diameter, mass)? Pls. attach packing data sheet. 28 What are the dimensions for the transport packing containers, for logistical transportation? (Length, diameter, mass)? Pls. attach packing data sheet E) Regarding the Documentation 29 Pls. state the relevant STANAGS which the ammunition (shell, fuze, packing, etc) complies with. As example: STANAG 4110 - Definition of Pressure Terms and Their Interrelationship for Use in the Design and Proof of Cannons or Mortars and Ammunition. STANAG 4144 - Procedures to determine the fire control inputs for use in indirect fire control systems. STANAG 4119 - Adoption of a Standard Cannon Artillery Firing Table Format. STANAG 4157 - Safety, Arming and Functioning Systems (SAF Systems) Testing Requirements. STANAG 4187 - Fuzzing Systems - Safety Design Requirements. STANAG 4225 - The Safety Evaluation of Mortar Bombs. STANAG 2916 - Nose Fuze Contours and Matching Projectile Cavities for Artillery and Mortar Projectiles. STANAG 4369 - Design Requirements for Inductive Setting of Large Caliber Projectile Fuzes. STANAG 2401 - Weapon Danger Areas/Zones for Unguided Weapons for Use By NATO Forces In A Ground Role: Factors and Processes - and others if relevant. STANAG 4355 - The Modified Point Mass and Five Degrees of Freedom Trajectory Models. 30 What is the climate zones where the ammunition can be used? (According to STANAG 4370 / AECTP-200 "Environmental conditions") 31 Can you provide FCI data according to STANAG 4144 or similar for your HE shell fired from GDA's weapon systems, where the Weapon Systems is 1.6m barrel 120mm CARDOM Spear Mortar. Which is the type of FCI data you can provide: A - Full data, B - Simulation data (Some test required) or C - No data (Full test required) Can you also provide FCI data according to STANAG 4144 or similar for your HE shell fired from other weapon systems? F) Others 32 Is the ammunition in service in min. 1 NATO Nation? 33 Can your company disclose the names of the NATO nations where the ammunition is in service? 34 Any other information or data you consider useful. 35 Please indicate the prices for the products depending on quantities. 36 Please indicate localization options, including the quantities for which components or complete rounds could be manufactured in Romania.

#### **5.1.11. Procurement documents**

##### **Ad hoc communication channel:**

Name: GDA - [elicitatie@dpa.ro](mailto:elicitatie@dpa.ro)

URL: [www.dpa.ro/contact-2/](http://www.dpa.ro/contact-2/)

#### 5.1.12. Terms of procurement

##### Terms of submission:

Electronic submission: Required

Address for submission: <https://www.dpa.ro/contact-2/>

Languages in which tenders or requests to participate may be submitted: English

Deadline for receipt of answers: 22/01/2026 16:00:00 (UTC+02:00) Eastern European Time, Central European Summer Time

## 8. Organisations

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### 8.1. ORG-0001

Official name: Military Unit 02550 Bucharest

Registration number: 4283716

Department: Directia Management Contracte

Postal address: Drumul Taberei nr 9-11

Town: Bucharest

Postcode: 061353

Country subdivision (NUTS): București (RO321)

Country: Romania

Contact point: Directia Management Contracte

Email: [elicitatie@dpa.ro](mailto:elicitatie@dpa.ro)

Telephone: +40 213195858

Fax: +40 213149333

Internet address: <https://www.dpa.ro/>

Information exchange endpoint (URL): <https://www.dpa.ro/>

Buyer profile: <https://www.dpa.ro/>

##### Roles of this organisation:

Buyer

Central purchasing body awarding public contracts or concluding framework agreements for works, supplies or services intended for other buyers

### 8.1. ORG-0000

Official name: Publications Office of the European Union

Registration number: PUBL

Town: Luxembourg

Postcode: 2417

Country subdivision (NUTS): Luxembourg (LU000)

Country: Luxembourg

Email: [ted@publications.europa.eu](mailto:ted@publications.europa.eu)

Telephone: +352 29291

Internet address: <https://op.europa.eu>

##### Roles of this organisation:

TED eSender

## Notice information

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