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Planning

Project CALLISTO (PROPULSION)

Ministry of Defence

F16: Prior information notice for contracts in the field of defence and security

Notice identifier: 2025/S 000-029983
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Section I: Contracting authority/entity

I.1) Name, addresses and contact point(s)

Ministry of Defence

Abbey Wood, Spruce 2B, #1261

Bristol

BS34 8JH

Contact

FCI Commercial

For the attention of

FCI Commercial

Email(s)

DESGTWY-FCI-ERCoE-Comrcl@mod.gov.uk

Country

United Kingdom

Further information

Further information can be obtained from the above mentioned contact point(s)

Section II: Object

II.1) Title attributed to the contract by the contracting authority/entity:

Project CALLISTO (PROPULSION)

II.2) Type of contract and location of works, place of delivery or of performance

Services

Service category No 3: Defence services, military defence services and civil defence services

NUTS code

- UK - United Kingdom

II.3) Information on framework agreement

The notice involves the establishment of a framework agreement: No

II.4) Short description of nature and scope of works or nature and quantity or value of supplies or services

The UK MOD will be holding a Project CALLISTO Challenge Session on the afternoon of the 18th June 2025 in London, UK. Industry partners, particularly those currently established or planning to be established in the UK, are invited to attend to provide feedback on Project CALLISTO's proposed scope, timescales and feasibility.

II.5) Common procurement vocabulary (CPV)

- 73410000 - Military research and technology

Additional CPV code(s)

- 35613100 - Unmanned combat aerial vehicles

II.7) Additional information

The User requires a low-cost, 1.2-2kN propulsion system to power a UK MOD development programme (Proj BRAKESTOP) for a heavy One Way Effector (OWE). The propulsion system could be used for other applications e.g. cruise missiles, other OWEs.

Project BRAKESTOP has highlighted limited availability of the class of propulsion systems needed. Therefore, MOD wishes to increase the availability of this class of propulsion system.

Technical Propulsion Engine Requirements

The engine shall:

• Be a 1.2 – 2kN single engine propulsion system (Sea Level Static Maximum Thrust)

o Low end for least amount of ancillary cost (facilities, fuel, equipment, build material, machine size, test cell etc)

o Could then be iterated for enhanced capability.

• Be designed to be easily manufactured at scale using widely available manufacturing methods/machinery.

• Manage at least 5 hours component life; this provides confidence in managing the expected application life, but also pushes the materials technologies to low cost.

• Be able to reliably start rapidly (ideally 30 seconds) and accelerate to high power (ideally