



---

***Request for Quotation (RFQ) for the design, manufacture, assembly, professional verification, training, spares and supply of two (2) customised all weather ISO ammunition containers to the CSIR.***

***RFQ No. 9370/03/03/2022***

Date of issue	<b>Wednesday, 16 February 2022</b>
Closing Date and Time	<b>Wednesday, 03 March 2022 at 16h30</b> (late submission will not be accepted)
Contact details	For submission of quotations or any other enquiries: <a href="mailto:tender@csir.co.za"><u>tender@csir.co.za</u></a> ( <b>Please use RFQ No. as subject reference</b> ) Mail size is 25MB send multiple emails when exceeded
CSIR Hours	08h00 – 16h30

## **1 INVITATION FOR QUOTATION**

Quotations are hereby invited for the supply of two (2) customised all weather ISO ammunition containers to the CSIR:

Two (2) off customised all weather ISO ammunition containers modified in accordance with UN IATG and / or SANDF specifications and standards for the controlled (security and environmentally) storage, receipt and issuing of ammunition and explosives that includes:

- The design and client approval thereof prior to manufacture.
- The manufacture and assembly with professional verification and compliance certification.
- A two-year deployment maintenance plan with spares and special tools.
- On site operation and maintenance / repair training at the CSIR Pretoria campus.

## **2 QUOTATION REQUIREMENTS**

### **Specification for two (2) customised all weather ISO ammunition containers;**

That provide environmentally conditioned (humidity and temperature i.a.w. IATG 5.40)storage and issuing area that are able to operate in all weather conditions to maintain a controlled temperature of between twenty (20) to twenty-eight (28) degrees Celsius with a humidity between thirty (30) to forty (40) percent under the following conditions:

- External temperatures ranging from minus five (-5) to plus forty-five (45) degree Celsius
- External humidity ranging from fifteen (15) to one hundred (100) percent
- Solar radiation exposure of up to one-thousand five hundred (1 500) watts per square meter
- Operate from sea level to an altitude of two-thousand meters above sea-level.
- Operate under rain as well as dusty conditions (supplier to confirm levels that can be accommodated)

- The modified container system must comply with IATG earthing requirements that include at least two earthing spikes, tie straps and internal fitment bonding.
- The environmental conditions achieved by the system in the storage area to be monitored, logged and made available for downloading This must include shock loading during transportation.
- Containers are not longer than twenty (20) feet or six (6) meters
- The modified containers will maintain international shipping standards, free from damage, corrosion and have all locks and hinges serviceable and comply with all standardised shipping requirements and certifications including road transportation and roll-on-roll-off.
- The container storage space must be environmentally controlled with an onboard back-up generator.
  - An alternative off board generator can be offered to increase the storage space and reduce fire and explosive risks as well as reduce lead times and cost.
  - The backup generator must provide power for a period of twelve hours with available on-board fuel.
  - The backup generator system must include an Automatic Mains Failure system.
- All installations must meet IATG safety and general installation requirements including 5.40 as pertaining to volatile atmosphere hazard classification 1.1(IP65/67).
- The storage area must be secured with a security screen barrier with lockable access door and issuing / receipting hatch.
- A removable expanding canvas awning must be fitted, on deployment, over the front doors. The awning must be knocked down and safely stowed on board for transport.
- Three level internal storage shelves with partitioning and tie down straps and minimum capacity of one hundred and twenty kilograms (120) per must be supplied.
- The shelving as must be knocked down and safely stowed on board for transport.

- The shelving must include staking markers to prevent storage of items near the wall or electrical generating equipment as specified in IATG.
- A suitable internal light that meets IATG 5.40 requirements and has hidden wiring.
- The inside walls and roof of the container must be lined with fire retardant insulation panels. Should a floor lining be supplied it will be of a type to minimise static electricity build up and be bonded to the earthing system of the storage container.
- The inside of the container must be constructed to ensure easy cleaning and prevent the accumulation of explosive particles.
- The container must be provided with an externally accessible connector to enable external power provision.
- The on-board power and fuel supply system must meet all IATG 5.40 Category B electrical installation requirements and will be isolated from the storage area.
- The system must include an Automatic Mains Failure system on the external power supply line.
- The system will accommodate a three-phase three-hundred and eighty Volt (380 V) fifty Hertz (50 Hz) supply.
- The external power connector will have a surge protector as required by IATG 5-40.
- The system must make provision of two earthing spikes, tie-straps, and container assembly with bonding complying to IATG 5.40 and related standards.
- A standalone explosives and ammunition compatible fire suppression systems with independent alarms, smoke and flame detectors must be fitted.
- An independent unauthorised access alarm system must be fitted. All systems fitted must comply with IATG 5.40 and referenced standards for electrical safety.
- All electrical systems installed in the storage area or exposed to potentially hazardous atmosphere must be hidden.
- The containers are to include internal and external safety marking specifying the Electrical Category, Explosive Hazard, Fire Fighting marking according to UN and IATG requirements and must include demarcation of no-go storage areas

for explosives, electrically initiated devices (IED) and ammunition with electro-explosive devices (EED).

- The designed system must be able to accommodate transportation shock loading
- The ammunition storage container system should be able to be deployed for a period of 12 months without requiring a major (depot) level service. To meet this the system design and scope of supply shall include:
  - A maintenance plan with planned and unscheduled maintenance tasks and required special tools.
  - Onsite training for a maximum of the (10) suitably qualified SANDF personnel at the CSIR Pretoria campus.
    - Operator training including deployment and demobilisation (packing for transportation)
    - Scheduled and unscheduled maintenance.
  - Sufficient spares including line replaceable units will be provided to cover two years deployment.

#### **Additional information:**

- The final system design must be approved by the CSIR prior to production starting.
- Prior to delivery to the CSIR Pretoria campus, the complete system is to be demonstrated at the CSIR and performance verified onsite at the supplier. The complete system is and must be certified by a registered and insured professional engineer as compliant to and meeting applicable IATG requirements for ammunition storage systems and meets the technical specifications listed here. This includes system testing and formal reporting as needed to verify the system compliance.
- The compliance of the explosive and ammunition containers to IATG 5.40 shall be certified by the supplier.
- The ammunition storage container will not be designed for air transportation.
- The complete system as knocked down for transportation will accommodate limited transportation shock loading associated with road and sea transportation and comply with the appropriate ISO standard (ISO 1496).

- The original design structural strength, rigidity, functionality, and certification of the container is to be maintained.
- Preference is given to OEM approved OEM approved products sold, supported, and maintained in the RSA.
- The bidder should provide the following proposed design information based on the system solution to be offered:
  - The operational limitations of the system in terms of atmospheric conditions, if any in terms of rain, dust, and solar radiation.
  - If the system includes and on board or off-board generator.
  - The proposed system environmentally controlled storage area.
  - Specific design requirements needed to meet the specified HVAC environment, if any.
  - The current draw of the Heating, Ventilation, and Air Conditioning (HVAC) system.
  - Specify any system requirement that if changed would provide for a quicker delivery time.

**Outcome of project:**

The supply of to (2) customised all weather ISO ammunition containers modified in accordance with UN IATG and / or SANDF specifications and standards for the controlled (security and environmentally) storage, receipt and issuing of ammunition and explosives delivered to the CSIR Pretoria campus with on-site system training of SANDF personnel and provided with special tooling and spares to ensure a twelve months deployment.

**3 EVALUATION CRITERIA**

The RFQ will be evaluated as per the following:

- 3.1 Selection of suppliers will be based on the 80/20 preference point system.
- 3.2 Provide valid certified copy of the B-BBEE Certificate issued by an accredited verification agency and bearing a SANAS logo or valid sworn affidavit on dti templates or CIPC issued B-BBEE certificate.
- 3.3 No B-BBEE status will equal zero points.
- 3.4 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use [www.csd.gov.za](http://www.csd.gov.za) to register.
- 3.5 No order will be issued or no contract will be signed without a valid CSD number.

#### **4 ELIMINATION CRITERIA**

- Full compliance to the technical requirements as listed in the scope of work;
- Failure to supply the offered system information requested above under additional information.
- Issuing of a Certificate of Conformance for all the work and system performance by a registered professional engineer.
- ISO 9001 certification
- Ability to execute the quoted work within eight (8) weeks or better from receipt of order;
- A 12 months warranty on all work executed;
- Submission after the deadline;
- Submission at wrong location, submit to [tender@csir.co.za](mailto:tender@csir.co.za);
- Suppliers on National Treasury list of restricted suppliers.

#### **5 PRICING QUOTATION**

- 5.1 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 5.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 5.3 Payment will be according to the CSIR Payment Terms and Conditions.

## 6 SPECIAL CONDITIONS

The CSIR reserves the right:

- 6.1 To extend the closing date of the RFQ;
- 6.2 To request documentary proof regarding any tendering issue;
- 6.3 To negotiate with one or more bidder(s) identified in the evaluation process who scored highest point on preferential point system, regarding any terms and conditions, including price without offering the same opportunity to any other bidder(s) who has not been awarded the status of the preferred bidder(s);
- 6.4 To carry out site inspections, product evaluations or explanatory meetings in order to verify the nature and quality of the services offered by the bidder(s) or to verify any information contained in a proposal, whether before or after adjudication of the RFQ;
- 6.5 To correct any mistakes at any stage of the tender that may have been in the RFQ documents or occurred at any stage of the tender process;
- 6.6 To cancel and/or terminate the tender process at any stage, including after the Closing Date and/or after presentations have been made, and/or after tenders have been evaluated and/or after the preferred bidder(s) have been notified of their status as such;
- 6.7 To accept part of a tender rather than the whole RFQ;
- 6.8 Award to multiple bidders who scored highest point on preferential point system, based on either size or geographic considerations (whether or not they submitted a joint proposal).

## OTHER TERMS AND CONDITIONS

The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.

A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

- 7 No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.**
- 8 Note: This is not a Purchase Order.**

## DECLARATION BY BIDDER

**Only bidders who completed the declaration below will be considered for evaluation.**

**RFQ No. 9370/03/03/2022**

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / proposal specifications stipulated in RFQ **9370/03/03/2022** at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the CSIR during the validity period indicated and calculated from the closing date of the proposal.

I confirm that I am satisfied with regards to the correctness and validity of my proposal; that the price(s) and rate(s) quoted cover all the services specified in the proposal documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this proposal as the principal liable for the due fulfilment of this proposal.

I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other proposal.

I accept that the CSIR may take appropriate actions, deemed necessary, should there be a conflict of interest or if this declaration proves to be false.

I confirm that I am duly authorised to sign this proposal.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

### WITNESSES

1 .....

2 .....

DATE: .....