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Gateway to Defence Solutions

Company registration: 1968/008611/30 VAT registration: 4500101169

REQUEST FOR QUOTATION

NAME OF BIDDER :

RFQ REFERENCE NUMBER: **RR83705/26-27**

APPOINTMENT OF **SERVICE PROVIDER TO DESIGN, SUPPLY, INSTALL, TEST, COMMISSION, AND HAND OVER PLC WORKBENCH**

EXPECTED TIMEFRAME

RFQ PROCESS	DATES
RFQ Issue Date	06/08/2026
Briefing Session (<i>indicate if it is compulsory or not</i>)	N/A
Briefing Session Address and Venue	N/A
RFQ Closing Date	20/08/2026 @11:00am

Please return your quotation on/or before the closing date and time stipulated above. Late and incomplete quotation will invalidate the quote submitted.

BIDDER'S NAME:

POSTAL ADDRESS:

TELEPHONE NO:

E MAIL ADDRESS:

CONTACT PERSON:

CELL NO:

SIGNATURE OF
BIDDER:



1. RFQ Validity period

- a. This quotation will remain valid **90 (ninety) days** from the date of bid closing.

2. RFQ Submissions

Submissions must be electronically emailed to Procurementdy@armscordy.co.za on/or before the closing date of this RFQ.

NB: Do not forward, copy (cc) or blind copy or send your quotation to any other ARMSCOR Official, as this will automatically disqualify the quotation without the option of correcting it.

3. ENQUIRIES

All queries regarding this bid must be addressed in writing to Procurement division on Procurementdy@armscordy.co.za. Questions/enquiries relating to this RFQ should be received at least three working days prior to the closing date. Queries received after this period will not be considered.

4. SECURITY

Bidders must electronically register for Security on Armscor website to be considered for orders which are administered by Armscor SOC (Pty) Ltd on Behalf of clients.

For more information on security registration contact:-

The Security Registration
Private Bag X337
PRETORIA
0001

E-mail:- register@armscor.co.za

- 4.1 Classified quotations are to be handled in the manner set out in Armscor' s Security Instruction, document number A-WI-014, copies of which are obtainable on request from the Contractor Security Section, P O Box 411, Pretoria, 0001.
- 4.2 Attention is drawn particularly to the procedure set out in chapter 4 of the manual, which is to be complied with when forwarding classified documents.

5. NOTES ON QUOTATIONS AND PROPOSALS SUBMISSION

- a. In the case of electronic submissions:
- All Electronic submissions must be submitted in a **PDF** format that is protected from any modifications, deletions, or additions.
- b. Financial/pricing information must be presented in a **separate** attachment from the Technical / Functional Response information.
- c. The onus is on the Bidder to further ensure that all mandatory and required documents are included in the electronic submission.
- d. All submissions should be prominently marked with RFQ Number and bidders' name.
- e. Bidders are advised to email electronic submissions atleast **one hour** before the bid closing time to cater for any possible delay in transmission or receipt of the bid. The onus is on bidder to ensure that the bid is submitted on time via email
- f. Bid submission emails received after submission date and time will be considered late bid submissions and will not be accepted for consideration.
- g. Armscor will not be responsible for any failure or delay in the email transmission or receipt of the email including but not limited to:
- receipt of incomplete bid
 - file size
 - delay in transmission receipt of the bid
 - failure of the Bidder to properly identify the bid
 - illegibility of the bid; or
 - Security of the bid data.

6. REQUIRED DOCUMENTS

Bidders are required to develop a returnable schedule annexure in accordance with the following table of contents.

Item	List of Required Documents	Submitted [Yes or No]	
1.	Central Supplier database (CSD) registration report or Unique Registration Reference Number	Yes ☐	No ☐
2.	Valid Tax Clearance Certificate (s) and or proof of application endorsed by SARS and / or SARS issued verification pin code.	Yes ☐	No ☐
3.	Copy of CIPC registration documents listing all members with percentage, see bidding structure for required documents.	Yes ☐	No ☐
4.	Valid proof of BBBEE status for the bidder and its sub-contractor(s)	Yes ☐	No ☐
5.	Designated sectors: Local production and content. (Where applicable)	Yes ☐	No ☐

7. Please quote on the following:

ITEM NO	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
1	SERVICE PROVIDER TO DESIGN, SUPPLY, INSTALL, TEST, COMMISSION, AND HAND OVER PLC WORKBENCH			
2	BIDDERS ARE EXPECTED TO PROVIDE A SEPARATE QUOTATION ON COMPANY LETTERHEAD. THE QUOTATION MUST CLEARLY OUTLINE THE CORRECT ITEM DESCRIPTION, UNIT OF MEASURE, QUANTITIES, UNIT PRICE AND PRICE FOR EACH LINE ITEM			
3	DELIVERY ADDRESS: ARMSCOR DOCKYARD, TRANSIT STORE, COLE POINT, EAST YARD, ST GEORGE'S STREET SIMONS TOWN			

4				
5				
6				
Please take note of the critical criteria set out in this document				
TOTAL (VAT EXCLUDED)				
VAT				
TOTAL (VAT INCLUDED)				

- Clearly indicate the total as follows in the quotation:
Subtotal (excluding VAT)
VAT

Total (including VAT)

7.1 Period required for commencement of delivery, after receipt of order*:

7.2 Period required for completion of order, after receipt thereof*:

*** Must be completed by Bidder if not completed by Armscor**

7.3 Supplier number (as per National Treasury Central Supplier Database (CSD):

7.4 Unique CSD registration reference number:

7.5 SARS Personal identification number (PIN) (if available):

Suppliers must either supply SARS Pin (supply of the pin implies permission that Armscor may use it to verify the supplier's tax status) or their original Tax Clearance Certificate.

8. TAX COMPLIANCE REQUIREMENTS

- 8.1 The Bidder must be tax compliant for the duration of the contract (status will be checked when the quotation is evaluated, when the order is placed as well as before payment can be done).
- 8.2 The Bidder must be registered on the National Treasury Central Supplier Database (National Treasury can be contacted on (+2712) 406 9222 or csd@treasury.gov.za). Refer also to www.treasury.gov.za.

9. STATEMENT OF WORK (SOW) / SCOPE OF WORK

SERVICE PROVIDER TO DESIGN, SUPPLY, INSTALL, TEST, COMMISSION, AND HAND OVER PLC WORKBENCH

10. CRITICAL CRITERIA (IF APPLICABLE)

REFER TO SOW

<i>Criteria</i>	<i>Compliance Evidence</i>
<i>REFER TO SOW</i>	<i>REFER TO SOW</i>
<i>N/A</i>	<i>N/A</i>

11. EVALUATION OF QUOTATIONS:

- 11.1 Phase 1 –Mandatory requirements (if applicable)
- 11.2 Phase 2 – Critical Criteria or Functionality – Paper based (if applicable)
- 11.3 Phase 3 – Functionality - Presentation / Demonstration / Site Inspection (if applicable)
- 11.4 Phase 4 – Price and Specific Goals
- 11.5 Phase 5 – Objective Criteria

12. PREFERENTIAL PROCUREMENT REGULATION REQUIREMENTS

Refer Preferential Procurement Policy Framework Act, 2000; Preferential Procurement Regulations, 2022 and Defence Sector Code 2019:

12.1 Awarding of Bids

The awarding of RFQ will be in terms of the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2022 and Preference Point System of the Preferential Procurement Regulations, 2022.

The applicable points are:

Price (Pp):	80 Points
Specific Goals:	20 Points
Total:	100 Points

The following formula will be used to calculate the points in respect of a bid up to a rand value of R 50 000 000, 00 (all applicable taxes included).

A maximum of 80 points is allocated for price on the following basis:

80/20

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where:

P_s	= Points scored for price of bid under consideration.
P_t	= Price of bid under consideration.
P_{min}	= Price of lowest acceptable bid.

12.2 ALLOCATION OF PREFERENCE POINTS FOR SPECIFIC GOALS

- 12.2.1 The preference points that will be awarded in terms of the specific goals with regards to procurement processes shall be as follows:

Table 2: Specific Goals for General Procurement

No	Specific Goals for General Procurement	Points for 80/20 PPS	Points for 90/10 PPS
RDP Programme: Promotion of SMMEs			
1	EME or QSE entities which are 100% owned by black people	20 points	10 points
2	EME or QSE entities which are at least 51% owned by black people	18 points	9 points
3	EME or QSE entities which are at least 35% owned by black people	16 points	8 points
4	EME or QSE entities which are at least 25% owned by black people	10 points	5 points
Total Points Per PPS		20 points	10 points

12.3 PRINCIPLES

12.3.1 Valid proof of B-BBEE status is either of the following:

- a. A B-BBEE Sworn Affidavit fully completed and
 - i. Deposed and signed in the presence of the Commissioner of Oaths (Certified true copy not acceptable).
 - ii. Does not contradict itself (% black ownership matches compliance level).
 - iii. Commissioner of Oaths credentials and signature are reflected.
 - iv. Commissioned and deposed on the same day
- b. A B-BBEE Certificate issued by either the CIPC or a SANAS Accredited Verification Agency.
- c. An entity submitting an unincorporated Joint Venture / Consortium must attach a Consolidated B-BBEE Certificate in the name of the Joint Venture / Consortium issued by a SANAS accredited Verification Agency.
- d. B-BBEE status must be based on the latest financial year-end information, otherwise it is invalid and unacceptable.
- e. The bid must be accompanied by the CIPC Beneficial Ownership Declaration. The declaration should be the latest lodged with CIPC.
- f. The bidder must submit the company registration documents issued by Companies and Intellectual Property Commission (CIPC) accompanied by the latest share register and share certificate for (Pty) Ltd and Ltd signed by the Company Secretary or registered Auditor.

12.3.2 Local content and production

- a. Local Content and production refers to the mandate where a minimum stipulated percentage of goods, services or inputs be locally sourced and manufactured within South Africa to boost the local industry, create jobs and develop industrial capacity.
- b. The DTIC designate and determine a stipulated minimum threshold for each sector which is designated
- c. The complete list of sectors and sub-sectors which are designated for local production with minimum local content threshold can be found on the website of the department of trade, industry & competition via the link below.
<http://www.thedtic.gov.za/sectors-and-services-2/industrial-development/industrial-procurement/>
- d. The bidder shall submit with the bid documents a completed annexure c, d & e and an exemption letter from the DTIC and a letter from the manufacturer.

12.3.3 Locality

- a. The bidder must submit the municipality bill/local councillor letter (must be not be older than 3 months).
 - i. In an event where the bidder is the lessee, the municipality bill and the lease agreement must be submitted.
 - ii. In an event where the bidder owns the property, the municipality bill must be in the name of the bidder/owner of the property.

12.3.4 Verification of bidders information

The Armscor reserves the right to require a bidder and/or its sub contractor(s) to substantiate any claim at any stage in the bidding process to verify and confirm the specific goals claim of the bidder and/or its sub-contractor(s).

12.3.5 Armscor reserves the right to:

- 12.3.5.1 not evaluate and award bids / RFQ Submissions that do not comply strictly with this RFQ document.
- 12.3.5.2 make a selection solely on the information received in the bid and enter into negotiations with one or more of preferred bidder(s) based on the criteria specified in the evaluation of this bid.
- 12.3.5.3 contact any Bidder during the evaluation process, in order to clarify any information, without informing any other Bidders. During the evaluation process, no change in the content of the submitted bid shall be sought, offered or permitted.
- 12.3.5.4 award a contract to one or more Bidder(s).
- 12.3.5.5 Where it makes baccept any bid in part or full.
- 12.3.5.6 cancel this bid or any part thereof when necessary.

Should Bidder(s) be selected for further negotiations, they will be chosen on the basis of the greatest benefit to Armscor and not necessarily on the basis of the lowest costs.

13. Objective Criteria

- 13.1 Armscor will not award the bid or order to any bidder based on the proven poor record or poor performance of the bidder in previous projects within the Armscor.
- 13.2 Armscor will not award order/s or contract/s to the bidders who are blacklisted or restricted or have committed other acts of fraud and misrepresentation of facts e.g., tax compliance, company financials, etc. will be eliminated from the bid process.
- 13.3 Armscor reserve the right not to award this quotation to any bidder who fails the financial stability assessment.
- 13.4 Armscor reserves the right to award the bid in part or in full.
- 13.5 Armscor reserves the right to disregard bids that are abnormally low prices compared to the market.

14. Payment Terms

Armscor will effect payment thirty (30) days after the service provider has rendered the service and submitted an invoice / statement.

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1 INTRODUCTION

1.1 Purpose

This document outlines the technical and functional requirements for bidders to design, supply, install, test, commission, and hand over a PLC workbench intended for the maintenance, diagnostics, simulation, and training of the Integrated Platform Management System (IPMS) installed on frigates.

1.2 Background

The Weapons Section is currently in the process of building up capability and one of the mandates of the section includes providing platform electronics maintenance support to the SA Navy's fleet which includes the IPMS. In order to maintain the various sensors and Programmable Logic Controllers (PLCs) used by the IPMS, a PLC workbench is required to ensure that Line Replaceable Units (LRUs) can be tested and repaired in controlled environments to eliminate the risk of causing further damage to the systems on board the vessel.

1.3 Document Overview

The specification is structured as follows:

- a. Chapter 1: Introductory Sections
- b. Chapter 2: Abbreviations and Reference Documents
- c. Chapter 3: Requirements
- d. Chapter 4: Critical Criteria

1.4 Governing Principles and Assumptions

The specification is constructed in line with the following governing principles and assumptions:

- a. 'System', in the scope of this specification refers to the highest-level assembly of the IMPS simulator.
- b. 'Documentation', refers to user manuals, maintenance manuals, and maintenance plans required to ensure Armscor Dockyard can operate and support the system.
- c. 'Commissioning', refers to installing and setting the system to work, this must include installing all support structures, and training Armscor Dockyard to operate and maintain the system.

2 ABBREVIATIONS AND REFERENCE DOCUMENTS

2.1 Abbreviations, Acronyms, and Definitions

Abbreviation & Acronyms	Descriptions
AC	Alternating Current
ADYD	Armcor Dockyard
CPU	Central Processing Unit
DP	Data Processing
ESD	Electrostatic Discharge
IC	Integrated Circuit
IP	Internet Protocol
IPMS	Integrated Platform Management System
OEM	Original Equipment Manufacturer
OHSA	Occupational Health and Safety Act
PC	Personal Computer
PLC	Programmable Logic Controllers
PSU	Power Supply Unit
SAN	South African Navy
SCADA	Supervisory Control And Data Acquisition
Simulator	Refers to a program or machine that simulates a real-life situation, meaning that it creates a virtual version of it, often for the purpose of instruction
Capability	Combination of people, tools, equipment, materials, methods, and/or infrastructure that can be applied to do a job, product or service.

2.2 Reference Documents

The workbench and all associated equipment shall comply with the latest editions of the following standards where applicable:

- a. Occupational Health and Safety Act 85 of 1993
- b. IEC 60204 – Safety of Machinery Electrical Equipment
- c. IEC 61131 – Programmable Controllers
- d. IEC 61439 – Low Voltage Switchgear Assemblies
- e. ISO 12100 – Safety of Machinery
- f. Siemens SIMATIC installation guidelines
- g. South African electrical regulations and standards (SANS)

3 REQUIREMENTS

The objective of this project is to establish a fully operational PLC maintenance and training workbench capable of:

- Maintaining frigate IPMS PLC systems.
- Performing diagnostics and troubleshooting.
- Conducting software loading and testing.
- Simulating analog and digital field signals.
- Training technical personnel on Siemens S7 PLC systems.
- Supporting future system upgrades and expansions.

3.1 PLC Hardware Requirements

Description	Part Number	Quantity
Delivery	-	1
Labour	-	1
PLC test bench hardware	-	1
SIMATIC S7-400 Power Supply PS407	6ES7407-0DA02-0AA0	1
SIMATIC S7-400 CPU 412-2	6ES7412-2XK07-0AB0	1
SIMATIC S7-400 Analog Input SM431	6ES7431-1KF00-0AB0	1
SIMATIC S7-400 Analog Output SM432	6ES7432-1HF00-0AB0	1
SIMATIC S7-400 Digital Input SM421	6ES7421-1BL01-0AA0	1
SIMATIC S7-400 Digital Output SM422	6ES7422-1BL00-0AA0	1
SIMATIC S7, Micro memory card	6ES7954-8LE03-0AA0	1
SIMATIC S7-1500 Power Supply PM 1507	6EP1332-4BA00	1
SIMATIC S7-1500 Analog Input Module	6ES7531-7KF00-0AB0	1
SIMATIC S7-1500 Analog Output Module	6ES7532-5HD00-0AB0	1
SIMATIC S7-1500 Digital Module	6ES7523-1BL00-0AA0	1
SIMATIC S7-1500 CPU 1515-2 PN	6ES7515-2AN03-0AB0	1
SIMATIC ET 200SP Series Interface Module	6ES7155-6AU01-0CN0	1
6GK75 Series Communication Interface	6GK7543-1AX10-0XE0	1
PC adapter USB A2 (for connection of a PG/PC to SIMATIC S7 via PROFIBUS)	6GK1571-0BA00-0AA0	1
SIPLUS DP PROFIBUS plug	6AG1972-0BB12-2XA0	10
SIMATIC Field PG M6 Advanced	6ES7718-1CB07-1AD2	1
SIMATIC PG, spare battery	6ES7798-0AA10-0XA0	1
TIA Portal STEP 7 Professional V18	6ES7822-1AA23-0YA5	1
SOMATIC WinCC (HMI configuration)	6AV6381-2BP07-5AV0	1
SIMATIC PG, AC/DC power supply unit for Field PC M5 and M6	6ES7798-0GA05-0XA0	1
Accessories (Racks, Terminal blocks, wiring ducts, cabling, connectors)	-	1
ESD Mat 700x500x2.0mm with Ground Wire & Wrist Strap	-	3

3.2 Workbench Requirements

3.2.1 Mechanical Design

The PLC workbench shall:

- a. Have length of 3.0 m $\pm$ 50 mm.
- b. Have depth of 0.8–1.0 m (suitable for standard PLC chassis).
- c. Have height of 0.75–0.9 m (ergonomic for seated or standing work).
- d. Support a minimum load capacity of 200 kg evenly distributed.
- e. Left section: S7-1500, Rail(PM1507, CPU, AI Module, AO Module, D Module)
- f. Centre Section: S7-400, UR1 Rack(6 slots-PS407, CPU, AI SM432, AO SM432, DI SM421, DO SM422).
- g. Right section: S7-300(empty slots), provides expansion capability and supports existing module testing.
- h. Have material that is Anti-static, chemical-resistant laminate work surface.
- i. Have a frame that is heavy-duty steel with corrosion-resistant coating (suitable for marine/workshop environment).
- j. Allow easy access to all PLC modules and wiring.
- k. Include cable management systems.
- l. Include clearly labelled terminals and wiring ducts.
- m. Include dedicated mounting areas for:
 - S7-1500 system
 - S7-400 system
 - S7-300 system/Testing
 - Remote I/O equipment
 - Networking equipment
 - Programming stations

3.2.2 Electrical Requirements

The bidder shall provide:

- a. Provision for power supply units (24V DC, 48V DC) matching PLC requirements Main isolator switch. Circuit breakers and surge protection.
- b. Emergency stop circuit.
- c. Circuit breakers.
- d. Surge protection.
- e. Wiring ferruled and labelled.
- f. Wiring using industrial-grade stranded conductors.
- g. Wiring routed in trunking.
- h. Include proper grounding and shielding practices.

3.3 Software Requirements

The bidder shall install and configure:

- a. Siemens STEP 7 software.
- b. Communication drivers.
- c. Required PLC hardware configuration files.
- d. Backup and restore functionality.
- e. SQL database independent from Microsoft® Access®.
- f. Language in English.

- g. Offline Login and Use.

3.4 Functional Requirements

The workbench shall provide the following capabilities:

- a. Upload/download PLC programs.
- b. Online diagnostics and monitoring.
- c. Fault finding and debugging.
- d. Digital input simulation switches (8 toggle switches).
- e. Digital output indication lamps (8 LED indicators).
- f. Analog signal simulation (0–10 V and 4–20 mA).
- g. Analog output monitoring.
- h. PROFIBUS DP communication.
- i. Ethernet TCP/IP communication.
- j. Interconnection between S7-400 and S7-1500 systems.
- k. Process simulation graphics.
- l. Alarm and trend monitoring.

3.5 Training Requirements

The bidder shall provide operator and maintainer training (theoretical and practical) covering:

- Siemens S7-400 and S7-1500 hardware.
- STEP 7 software usage.
- PROFIBUS troubleshooting.
- PLC diagnostics.
- Backup and restoration procedures.
- Safe operation of the workbench.

3.6 Installation

- a. The bidder shall install and commission the PLC workbench at Armscor Dockyard Simon's Town.
- b. The bidder shall finish installation and commissioning within 6 months from order placement.
- c. The bidder shall provide the labour, equipment and material required to assemble, install and commission the PLC workbench.
- d. Power supply is at most 5m away from the installation point, the supplier shall provide all electrical accessories required to commission the PLC workbench.
- e. The bidder shall be responsible for connections to the supplied electrical supply.
- f. All electrical installations to be done in accordance with SAN 10142-1.
- g. The bidder shall conform to the Armscor Dockyard SHE contractor Management Practice, document number AK-PRAC-11032 that will be made available to the supplier during the procurement process.
- h. The bidder shall provide method statements and risk assessments for approval prior to commencement.
- i. Upon completion, the bidder shall conduct QAT (Quality Acceptance Testing) to verify:
 - Correct installation of all PLC modules.
 - Network communication.
 - Correct operation of analog and digital I/O.

- Functional power distribution.
 - Emergency stop operation.
 - Software communication with PLCs.
- j. A QAT report shall be submitted for approval.

3.7 Logistic Support

3.7.1 Documentation

The following documents shall accompany the delivery of the system, documents shall be in clear, grammatically correct English:

- a. System architecture drawings.
- b. Electrical schematics.
- c. Wiring diagrams.
- d. PLC hardware configuration.
- e. Network configuration.
- f. Bill of materials.
- g. Test procedures.
- h. Commissioning report.
- i. User manuals.
- j. Maintenance manuals.
- k. Warranty and guarantee documents.

3.7.2 Support and Test Equipment

- a. The maintenance and repair of the system shall be supported locally in South Africa by the OEM or an accredited agent.
- b. The system shall be delivered with a warranty of at least 24 months.

4 CRITICAL CRITERIA

The bids will be evaluated against the evaluation criteria that are reflected below. Failure by a bidder to comply with any of the single critical criterion will result in immediate elimination from the evaluation process.

Criterion	Requirement	Compliance Evidence
1	The Bidder shall have successfully completed the design, supply, installation and commissioning of at least two (2) Programmable Logic Controller (PLC) systems or PLC training/workbench systems within the last ten (5) years.	The Bidder shall submit at least two (2) client reference letters signed by the duly authorised client representative or Principal Agent, including contact details (email address and telephone number), confirming: (a) the name of the bidder; (b) the project description; (c) that the project included the design, supply, installation and commissioning of PLC systems or PLC training/workbench systems; and (d) The project completion date. Where the completion certificate does not clearly indicate the scope, additional supporting documentation issued by the client or Principal Agent shall be submitted.
2	The Bidder shall be an authorised Siemens Solution Partner, Siemens Distributor, or an accredited systems integrator authorised to supply, configure and commission Siemens SIMATIC products.	The Bidder shall submit a valid Siemens Partner Certificate, Siemens Authorisation Letter, or equivalent documentation issued by Siemens confirming the bidder's authorised status.