

Request for Quotation (RFQ)

Request for Quotation (RFQ) to appoint a suitable service provider to upgrade a 300DS (200 L Bioreactor) DCU to Siemens Platform.

RFQ No. 9344.1/11/10/2022

Date of issue	Tuesday, 27 September 2022
Closing Date and Time	Tuesday, 11 October 2022 @ 16:30
RFQ Number	RFQ 9344.1-11-10-2022
Submission of Queries and quotes:	For submission of quotations or any other enquiries: tender@csir.co.za

SECTION A: TERMS OF REFERENCE, SCOPE OF WORK, TECHNICAL SPECIFICATION AND FUNCTIONAL REQUIREMENTS

1 INTRODUCTION

The Council for Scientific and Industrial Research (CSIR) is one of the leading African research and technology development organisations. The CSIR's mandate is to undertake directed and multidisciplinary research and technology innovation that contributes to the improvement of the quality of life of South Africans. The CSIR lives and achieves this mandate in partnership with national and international research and technology institutions, parties in the public and private sectors and with civil societies.

2 INVITATION FOR QUOTATION

Request for Quotation (RFQ) to appoint a suitable service provider to upgrade a 300DS (200 L Bioreactor) DCU to Siemens Platform.

3 SCOPE OF WORK AND DELIVERABLES

Bidders are requested to quote the CSIR on the following requirements:

- Upgrading of a 300DS (200 L Bioreactor) DCU to Siemens Platform.

3.1 Specifications:

- **PLC hardware - CPU:**
 - System power supply, 25 W, 24 V DC
 - Mounting rail, 245 mm
 - CPU, 150KB working memory, 1MB data memory, 1 PN interface with 2 port switches, SIMATIC memory card necessary
 - SIMATIC S7, Memory card for S7-1X00 CPU/Sinamics, 3,3 V Flash, 12 MB
 - Scalance XB005 unmanaged industrial ethernet switch 10/100 Mbits/s, 24 V AC/DC power supply, with 5 x 10/100 Mbits/s RJ45 sockets
- **PLC Hardware – Remote Input/Output:**
 - **Profinet Interface Module:** SIMATIC ET 200SP, Profinet, 3-ports interface module, IM 155-6 PN/3 high feature, 2 slots for busadapter, Max 64 I/O

- modules and 16 ET 200 AL modules, S2 redundancy, Multi-hotswap, 0.25 MS, Isochronous mode, optional PN strain relief, including server module
- **16 Channel x Digital Input Module:** SIMATIC ET 200SP, Digital input module, DI 16 x 24 V DC standard, Type 3 (IEC 61131), Sink input, (PNP, P-reading), Packing unit: 1 piece, fits to BU-type A0, colour code CC00, input delay time 0.005...20ms, diagnostics wire break, diagnostics supply voltage
- **16 Channel x Digital Output Module:** SIMATIC ET 200 SP, digital output module, DQ 16 x 24 V DC/0.5A standard, source output (PNP, P-switching), Packing unit: 1 piece, fits to BU-type A0, colour code CC00, substitute value output, module diagnostics, for: short-circuit to L+ and ground, wire break
- **4 Channel x Analog Input Module (Current) 2/4 Wire:** SIMATIC ET 200SP, analog input module, AI 4 x I 2-/4- wire standard, Packing unit: 1 piece, fits to BU-type A0, A1, colour code CC03, module diagnosis, 16 bit, +/- 0.3%
- **4 Channel x Analog Output Module (Current) Wire:** SIMATIC ET 200SP, Analog output module, AQ 4 x U/I standard, suitable for BU type A0, A1, colour code CC00, module diagnostics, 16 bit, +/- 0.3%
- **Bases for IO Modules:**
 - Simatic ET 200SP, Baseunit BU15-P16+A10+2B, BU type AO, push-in terminals, with 10 AUX terminals, bridged to the left, WXH: 15 MM x 141 MM
 - SIMATIC ET 200 SP, Baseunit BU15-P16+A10+2D, BU type A0, push-in terminals, with 10 AUX terminals, new load group, WXH: 15 MM x 141 MM
- **SIMATIC HMI Panel:**
 - SIMATIC HMI TP1200 Comfort, comfort panel, touch operation, 12" widescreen-TFT-display, 16 Mil. Colours, Profinet interface, MPI/Profibus DP interface, 12 MB user memory, Windows CE 6.0, configurable from WinCC Comfort V11
 - SIMATIC WinCC Audit for SIMATIC panels
- **SCADA system:**
 - SIMATIC WinCC Runtime Advance 512 Powertags V17

- SIMATIC WinCC Audit for Runtime Advanced Option F. WinCC (TIA portal) Runtime
- SIMATIC WinCC logging for Runtime Advanced
- Dell Optiplex, I7 processor, 16 GB DDR4 RAM, 256 GB SSD, 1TB hard drive, keyboard & mouse, Windows 10 Pro
- LG 24" monitor
- **Control panel hardware (existing panel to be modified):**
 - Tripple bridged 0.25 mm² – 2.5 mm²
 - Tripple non-bridged 0.25 mm² – 2.5 mm²
 - Slim relay socket 1C O LED 24 VAC DC SCRW
 - Double non-bridged 0.25 mm² – 2.5 mm²
 - Fused 0.25 mm² – 2.5 mm²
 - Consumables
 - Labour panel manufacturing/modification
- **Instrumentation for integration with new system:**
 - **Pressure transmitter, 4-20 mA output, 0-10 bar, special process connection:** CERABAR PMP21 complete with manufactured process connection – 52002643
 - **Mettler Toledo analytical transmitter M300:** Transmitter M300 Process 2-channel ½ DIN, 4X4...20mA outputs
 - **Temperature transmitter, PT100 to 4-20 mA:** ITEMP TMT71, DIN Railtransmitter, 4 – 20 mA
 - **Weighing scale transmitter:** Transmitter IND360, load cell strain gauge input, Profinet interface
- **Software, Engineering and Commissioning:**
 - Labour PLC software development including PLC hardware configuration, device setup, control sequences
 - Labour SCADA software development including setup of SCADA graphics, device configuration, control pages, tags and templates
 - Control system commissioning

- Control system design
- Transmitter M300 Process 2-channel ½ DIN, 4X4...20mA outputs
- ITEMP TMT71, DIN Railtransmitter, 4 – 20 mA
- Transmitter IND360, load cell strain gauge input, Profinet interface

- Electrical installation:
 - Cable instrument 0.5 mm² x 2 pair
 - Labour electrical installation

- Documentation:
 - Documentation (equipment manuals, datasheets, IO list, spares list)
 - Electrical drawings (panel GA, electrical drawings, loop drawings, PLC network and layout)
 - Quality control documentation

- Medicals, Safety and Induction:
 - Safety file to be included in quote

NB* Site visit can be arranged on request in order to quote for the services required

Notes to Pricing:

Bidders are to note that if the price offered by the highest scoring bidder is not market related, CSIR may not award the contract to that bidder. CSIR may:

- negotiate a market-related price with the Respondent scoring the highest points or cancel the RFQ.
- if that bidder does not agree to a market-related price, negotiate a market-related price with the bidder scoring the second highest points or cancel the RFQ.
- if the bidder scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the bidder scoring the third highest points or cancel the RFQ.
- If a market-related price is not agreed with the bidder scoring the third highest points, CSIR may cancel the RFQ.

NB: The above cost must be inclusive of all costs required to render the required services as per above scope of work and specifications.

3.2 Additional quotation requirements (These must be submitted with and/or indicated in quote):

- The bidder must submit quotation on their official company letterhead.
- Bidders must quote as per above Bills of Quantities (BoQ)/Pricing schedule in line with the stipulated specifications.
- The bidder must indicate lead time on the quote.
- Training manuals to be handed over and included in the quote
- Supply evidence of OEM (Siemens) certification or distributor appointment letter
- Training to be provided and included in the quote
- Supply proof of at least 3 years track record of similar services offered
- Offer of technical support, maintenance, upgrade and/or certification of equipment
- All travel costs to be included
- Include Warranty between 1 – 2 years in quote
- Goods and/or services are to be delivered to the CSIR Scientia site in Pretoria, Gauteng.
- The pricing must be firm and inclusive of all costs required to deliver the required services to the CSIR.

4 MANDATORY DOCUMENTS REQUIRED / RETURNABLES:

Bidders must submit the below-mentioned documents and/or information and confirm compliance thereof:

No.	Description
1	Quotation on official company letterhead
2	Completed BoQ (Annexure A) or pricing schedule
3	Completed and duly signed Standard Bidding Form (SBD 1)- Invitation to bid.
4	Completed and duly signed Standard Bidding Form (SBD 4)- Invitation to bid.
5	Completed and duly signed Tender's Declaration of Interest Form

NB: *Non-submission of the above-mentioned documents as well as any deviation from the above quotation requirements and specifications may deem your submission unresponsive and may thus result in your submission not being considered for Price and BBEE evaluation.*

5 EVALUATION CRITERIA

- 5.1 Selection of suppliers will be based on the 80/20 preference point system.
- 5.2 Submit a valid B-BBEE Certificate (SANAS accredited), CIPC B-BBEE certificate or sworn affidavit indicating the B-BBEE Status level. (RSA suppliers only)
- 5.3 No B-BBEE status will equal zero points. (RSA suppliers only)
- 5.4 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use www.csd.gov.za to register.
- 5.5 No order will be issued, or no contract will be signed without a valid CSD number (Only applicable to RSA suppliers).

5.6 Elimination Criteria:

Suppliers will be eliminated under the following conditions:

- Late submission of Quotes.
- Submission at the incorrect email address- submissions must be made to tender@csir.co.za
- If bidder does not submit quotation on official company letterhead.
- If bidder does not quote according to stipulated specifications and requirements
- If bidder does not price as per BOQ or pricing schedule.
- Bidders that are listed on the NT database of restricted suppliers will not be considered.
- Bidders that are registered on the NT Register of Tender Defaulters will not be considered.
- Non-submission of any of the mandatory/returnable documents specified in **section 4** above..

6 PRICING QUOTATION

- 6.1 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.
- 6.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 6.3 Payment will be according to the CSIR Payment Terms and Conditions.

7 OTHER TERMS AND CONDITIONS

- 7.1 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.
- 7.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

8 Note: This is not a Purchase Order.

9 PROCEDURE FOR SUBMISSION OF QUOTATIONS

- All quotations must be submitted electronically to: tender@csir.co.za
- Respondents must use the RFQ number as the subject reference number when submitting their bids

10 CSIR RESERVES THE RIGHT TO

- 10.1 Extend the closing date;
- 10.2 Verify any information contained in a proposal;
- 10.3 Request documentary proof regarding any tendering issue;
- 10.4 Appoint one or more service providers, separately or jointly (whether or not they submitted a joint proposal);
- 10.5 Award this RFQ as a whole or in part; and
- 10.6 Cancel or withdraw this RFQ as a whole or in part.

11 DISCLAIMER

This RFQ is a request for quotations only and not an offer document. Answers to this RFQ must not be construed as acceptance of an offer or imply the existence of a contract between the parties. By submission of its quotation, tenderers shall be deemed to have satisfied themselves with and to have accepted all Terms & Conditions of this RFQ. The CSIR makes no representation, warranty, assurance, guarantee or endorsements to tenderer concerning the

RFQ, whether with regard to its accuracy, completeness or otherwise and the CSIR shall have no liability towards the tenderer or any other party in connection therewith.

12 ANNEXURE B: SCHEDULE OF BIDDER'S EXPERIENCE AND CONTACTABLE REFERENCES

Client / Company Name	Contact person, email, and Telephone Number	Description of goods and/or services delivered	Value of the goods and/or services delivered (Inclusive of Vat)	Date when goods and/or services were delivered to client

DECLARATION BY TENDERER

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

RFQ No: 9344.1/11/10/2022

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 No 9344.1/11/10/2022** 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 tenderer 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: