

Request for Quotation (RFQ) for the supply and installation of a Green Energy Efficient Irrigation system

Request for Quotation (RFQ) No: 5839/14/06/2022

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|-----------------------|---|
| Date of issue | Tuesday, 31 May 2022 |
| Closing Date and Time | Tuesday, 14 June 2022 at 16:30 |
| RFQ Number | 5839/14/06/2022 |
| Contact details | For submission of quotations or any other enquiries: tender@csir.co.za <i>(please always quote the RFQ number with your submissions and inquiries)</i> |
| CSIR Business Hours | 08h00 to 16h30, Monday to Friday |

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

Quotations are hereby invited for the supply and installation of Green Energy Efficient Irrigation system to CSIR.

3 SCOPE OF WORK AND DELIVERABLES

Bidders are requested to quote the CSIR on the following requirements (Layout in Annexure B):

The successful contractor will be required to:

This is not a Purchase Order.

3.1 Requirements are for a simple, cost effective, green energy efficient irrigations items for the ARC Addo site in the Eastern Cape. The items are as follows:

- Main water supply at dam - Solar PV pump and motor 14m³/hr with 4 x 270 w solar panels with concrete housing
- Irrigation supply – Solar PV pump and motor 9m³/hr at 2.1 bar with 2 x 270 w solar panels
- Compatible water filter unit,
- Jojo water tanks 2 x 10 000L, with a concrete slab of 10m², ground mount structure and roof structure for the 2 solar panels (Irrigation supply pump)
- All electrical components and solar DC cable.
- 200 m HDPE (Class 6) 75 mm pipe including fittings and installation which will involve trenching (Main-line from dam to jojo tanks)
- Dosatron in-line fertigation unit (injector type) with 500L max capacity fertigation stock tank and related components, 9m³/hr

| Item | Description | Quantity | Rate | Amount |
|------|--|----------|------|--------|
| 1 | Main water supply at dam - Solar PV pump and motor 14m ³ /hr with 4 x 270 w solar panels with concrete housing | 1 | | R |
| 2 | Irrigation supply – Solar PV pump and motor 9m ³ /hr at 2.1 bar with 2 x 270 w solar panels | 1 | | R |
| 3 | Compatible water filter unit | 1 | | R |
| 4 | Jojo water tanks 2 x 10 000L, with a concrete slab of 10m ² , ground mount structure and roof structure for the 2 solar panels (Irrigation supply pump) | 1 | | R |
| 5 | All electrical components and solar DC cable | 1 | | R |
| 6 | 200 m HDPE (Class 6) 75 mm pipe including fittings and installation which will involve trenching (Main-line from dam to jojo tanks) | 1 | | R |
| 7 | Dosatron in-line fertigation unit (injector type) with 500L max capacity fertigation stock tank and related components, 9m ³ /hr | 1 | | R |
| 8 | Supply and delivery of all items listed above, including the complete installation and testing of the green energy efficient irrigation system at the ARC Addo site in the Eastern Cape | 1 | | R |
| 9 | The tenderer must provide a full day's training to the assigned ARC operators of the green energy efficient irrigation system: <ul style="list-style-type: none"> • The complete operation of the entire system, • Routine maintenance procedures, • What to do and what not to do. | 1 | | R |

| Item | Description | Quantity | Rate | Amount |
|------|---|----------|------|----------|
| 10 | A one (1) year after sales service / maintenance plan for the entire, installed green energy efficient irrigation system. | 1 | | R |
| | | | | |
| | Sub-Total | | | R |
| | Add 15% VAT | | | R |
| | Grand total | | | R |

3.2 Tenderers must comply with the following mandatory / compulsory requirements, and include these requirements as part of the quotation:

- Supply and delivery of all items listed above, including the complete installation and testing of the green energy efficient irrigation system at the ARC Addo site in the Eastern Cape.
- The tenderer must have an individual who is a ECSA (Engineering Council of South Africa) registered Professional Engineer in Agriculture to supervise the installation.
- The tenderer must have at least 2 years' experience in supplying, installing and maintaining green energy solutions using solar panels. A reference letter from the clients which confirms that the bidder executed similar projects must be provided.
- The tenderer must provide warranty / guaranty of all items, components and workmanship of the entire green energy irrigation system for a period of 1 year. These must include all physical, technical, mechanical, and electrical components including the solar panels etc.
- The tenderer must provide a one (1) year after sales service / maintenance plan for the entire, installed green energy efficient irrigation system. In cases of breakdowns or system problems, all issues must be attended to within 48 hours, free of any costs to the CSIR or the ARC.
- The tenderer must provide a full day's training to the assigned ARC operators of the green energy efficient irrigation system:
 - The complete operation of the entire system,
 - Routine maintenance procedures,
 - What to do and what not to do.

3.3 The tenderer must have a valid CIDB registration certificate/proof, level SH or higher grading designation.

- 3.4 The tenderer should indicate an estimated time for commencement and completion of the installation, from the time the official order is placed.

4 LOCAL CONTENT AND PRODUCTION

- 4.1 Only locally manufactured goods and/or services from local raw material or input will be considered.
- 4.2 If the raw material or input to be used for a specific item is not available locally, bidders should obtain written authorisation from the DTIC should there be a need to import such raw material or input and;
- 4.3 A copy of the authorisation letter must be submitted together with the bid document at the closing date and time of the RFQ. For further information, bidders may contact the Electrical and Steel sector unit within the DTIC at telephone 012 394 3717/1390 during office hours.
- 4.4 The guidelines and declarations that should be used by tenderers when preparing a tender are available on the DTIC website. Guidance on the calculation of local content and manufacturing can be assessed on the DTIC's official website – http://www.theDTI.gov.za/industrial_development/ip.jsp
- 4.4.1 Tenderers must complete Declarations D and E, and consolidate the information on Declaration C (*Completed in Excel*). Annexures C, D and E must be submitted with the tender by the closing date and time as determined by the CSIR. If the tender is successful, the tenderer must continuously update Declarations C, D and E with actual values for the duration of the contract.

- 4.5 The Declaration Certificate for Local Production and Content (SBD 6.2) in addition to the above declarations must also be completed, duly signed and submitted by the bidder at the closing date and time of the tender; and
- 4.6 The rates of exchange quoted by the bidder in paragraph 6.8 below of the declaration certificate will be verified for accuracy.
- 4.7 The exchange rate to be used for the calculation of local production and content must be the exchange rate published by the South African Reserve Bank (SARB) AT 12:00 on the date of advertisement of bid.
- 4.8 Only the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 must be used to calculate local content.
- 4.9 Bidders must clearly indicate in their bids, the quantities of products to be supplied, and the level of local content for each product.
- 4.10 Applicable local production and content minimum thresholds for this tender are as per the table below:

| Sector | Minimum Local Content Threshold Applicable |
|---|---|
| Solar panel | 15% |
| Cable | 90% |
| Cement | 100% |
| High density polyethylene (HDPE) pipe | 100% |
| Steel Product for ground mount structure (if applicable) | 100% |
| Roof mount structure for the 2 solar panels (If applicable) | 90% |
| Module Frame (If applicable) | 65% |
| DC Combiner Boxes (if applicable) | 65% |
| Inverter (if applicable) | 40% |

See attached **Annexure B**: Guidance Document for the Calculation of Local Content

4.11 How to apply for exemption:

The exemption request must be on your signed company's letter-head and cover the following:

- The procuring entity/government department/state owned company,
- Tender/bid number,
- Closing date,
- Item(s) for which the exemption is being requested for,

- Description of the goods, services or works for which the requested exemption item will be used for and the local content that can be met,
- Reason(s) for the request.
- Attach specification issued by the procuring entity
- Supporting letters from local manufacturers/sub-suppliers (if applicable)

Attention to:

Dr. Tebogo Makube
Chief Director: Industrial Procurement Unit
The Department of Trade and Industry
Private Bag X84,
Pretoria,
Gauteng, 0001

5 EVALUATION CRITERIA

- 5.1 Selection of suppliers will be based on the 80/20 preference point system.
- 5.2 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use www.csd.gov.za to register.
- 5.3 Indicate valid B-BBEE status on quotation:
- Provide valid original or certified copy of the B-BBEE Certificate issued by an accredited verification agency and bearing a SANAS logo; **or**
 - Valid sworn affidavits made on DTIC designed templates; **or**
 - DTIC issued sworn affidavit; **or**
 - CIPC issued B-BBEE certificate.
- 5.4 No order will be issued or no contract will be signed without a valid CSD number.
- 5.5 Provide valid tax compliance PIN.
- 5.6 No deviation from the above specification is permitted
- 5.7 **Completion of Compliance Checklists in Annexure A is compulsory. Incomplete Compliance Checklist(s) will result in exclusion from the bidding process.**

Elimination Criteria

- Late submission of quotes;
- Submission at the wrong location or incorrect email address (Please submit electronically to tender@csir.co.za)
- Non-submission of quotes on company letterhead.
- Quotes not provided on prescribed format.
- Submissions received by tenderers who do not submit a signed Declaration by Tenderer form, will not be considered.
- No reference letter from the clients which confirms that the bidder executed similar projects. (Reference Table to be amended)
- No valid CIDB grading of SH or higher.
- If the bidder fails to meet the Local Production and Content requirements (Bidder must submit completed and signed local content Annexure C and SBD 6.2 declaration certificate for Local Production and Content).
- If the bidder fails to submit a completed and signed SBD 1.

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.
- 6.4 Clearly indicate VAT charged where applicable (if not VAT registered, please state so clearly).

7 OTHER TERMS AND CONDITIONS

- 7.1 The tenderer 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 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.

9 Note: This is NOT a Purchase Order.

ANNEXURE A**Compliance Checklist – Supply and installation of a Green Energy Efficient Irrigation system**

Failure to complete, sign and submit this Compliance Checklist along with your quotation, will result in your quotation being excluded from the evaluation process.

Please mark Comply or Do Not Comply with a clear “X”.

| Item | Aspect | | Comply | Do Not Comply |
|------|-----------------------------------|---|--------|---------------|
| 1 | Irrigation items | <ul style="list-style-type: none"> Main water supply at dam - Solar PV pump and motor 14m³/hr with 4 x 270 w solar panels with concrete housing <p>This must be clearly specified in the quotation</p> | | |
| 2 | Irrigation items | <ul style="list-style-type: none"> Irrigation supply – Solar PV pump and motor 9m³/hr at 2.1 bar with 2 x 270 w solar panels <p>This must be clearly specified in the quotation</p> | | |
| 3 | Irrigation items | <ul style="list-style-type: none"> A water filter unit <p>This must be clearly specified in the quotation</p> | | |
| 4 | Irrigation items | <ul style="list-style-type: none"> Jojo water tanks 2 x 10 000L, with a concrete slab of 10m², ground mount structure and roof structure for the 2 solar panels (Irrigation supply pump) <p>This must be clearly specified in the quotation</p> | | |
| 5 | Irrigation items | <ul style="list-style-type: none"> All electrical components and solar DC cable <p>This must be clearly specified in the quotation</p> | | |
| 6 | Irrigation items | <ul style="list-style-type: none"> 200 m HDPE (Class 6) 75 mm pipe including fittings and installation which will involve trenching (Main-line from dam to jojo tanks) <p>This must be clearly specified in the quotation</p> | | |
| 7 | Irrigation items | <ul style="list-style-type: none"> Dosatron in-line fertigation unit (injector type) with 500L max capacity fertigation stock tank and related components, 9m³/hr <p>This must be clearly specified in the quotation</p> | | |
| 8 | Complete installation and testing | <ul style="list-style-type: none"> Supply and delivery of all items listed above, including the complete installation and testing of the green energy efficient irrigation system at the ARC Addo site in the Eastern Cape. <p>This must be clearly specified in the quotation</p> | | |

| Item | Aspect | | Comply | Do Not Comply |
|------|---|---|--------|---------------|
| 9 | ECOSA registered Professional Engineer in Agriculture | <ul style="list-style-type: none"> The tenderer must have an individual who is a ECOSA (Engineering Council of South Africa) registered Professional Engineer in Agriculture to supervise the installation. <p>The individual together with the proof of membership must be provided with the quotation</p> | | |
| 10 | Experience | <ul style="list-style-type: none"> The tenderer must have at least 2 years' experience in supplying, installing and maintaining green energy solutions using solar panels. <p>A company profile with at least 2 references must be provided of similar nature.</p> <p>A reference letter from the clients which confirms that the bidder executed similar projects, must be provided with the quotation</p> | | |
| 11 | Warranty / guaranty | <ul style="list-style-type: none"> The tenderer must provide warranty / guaranty of all items, components and workmanship of the entire green energy irrigation system for a period of 1 year. These must include all physical, technical, mechanical, and electrical components including the solar panels etc. <p>This must be clearly specified in the quotation</p> | | |
| 12 | Service / maintenance plan | <ul style="list-style-type: none"> The tenderer must provide a 1 year after sales service / maintenance plan for the entire, installed green energy efficient irrigation system in the Eastern Cape. In cases of breakdowns or system problems, all issues must be attended to within 48 hours, free of any costs to the CSIR or the ARC. <p>This must be clearly specified in the quotation</p> | | |
| 13 | Training | <ul style="list-style-type: none"> The tenderer must provide a full day's training to the assigned ARC operators on site of the green energy efficient irrigation system: <ul style="list-style-type: none"> - The complete operation of the entire system - Routine maintenance procedures - What to do and what not to do <p>This must be clearly specified in the quotation</p> | | |
| 14 | Work plan | <ul style="list-style-type: none"> The tenderer should indicate an estimated time for commencement and completion of the installation, from the time the official order is placed. <p>This must be clearly specified in the quotation</p> | | |

Signature (for
Compliance
Checklist)

Print Name

Date

Company Name

BBBEE Level

CSD Number

VAT Registered (Yes or No)

ANNEXURE B

Site layout for the installation



10 DECLARATION BY TENDERER

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

RFQ No:

I hereby undertake to render goods/services described in the attached tendering documents to CSIR in accordance with the requirements and task directives/quotation specifications stipulated in RFQ No. 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 quotation.

I confirm that I am satisfied with regards to the correctness and validity of my quotation; that the price(s) and rate(s) quoted cover all the services specified in the quotation 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 RFQ as the principal liable for the due fulfilment of this RFQ process.

I declare that I have no participation in any collusive practices with any tenderer or any other person regarding this or any other RFQ 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: | |