



**Request for Quotation (RFQ) for provision of destructive testing services for seven welding procedure qualifications and accompanying welder qualification to DORMAC Marine & Engineering a company supported by the CSIR**

**RFQ No-5830-25-05-2022**

|                        |  |
|------------------------|--|
| Date of issue:         | Wednesday ,11 May 2022   |
| Closing Date and Time: | Wednesday ,25 May 2022 at 16h30  |
| Tender submission:     | For submission of quotations or enquiries: <a href="mailto:tender@csir.co.za">tender@csir.co.za</a><br><b>(Please use RFQ Number at subject reference)</b> |

## **1 INVITATION FOR QUOTATION**

Quotations are hereby invited for the provision of destructive testing services for seven welding procedure qualifications and accompanying welder qualification to DORMAC Marine & Engineering. The seven welding procedures and accompanying welder qualifications should be according to IACS requirements.

DORMAC Marine & Engineering (the beneficiary) was approved for support through the Marine Programme for support towards obtaining welding certification to IACS requirements. The beneficiary's market is ship repairs as well as specialized engineering and shipyard services to the Offshore Oil and Gas sector. The welding support offered to the beneficiary will allow the company to offer certified welding services to the rapidly evolving marine industry.

Bureau Veritas was already appointed as the IACS surveyor to qualify and endorse the Welding Procedure Specifications (WPSs) and welder testing and qualifications. A separate company has already been appointed to conduct the Non-destructive testing (not included in this RFQ).

**This RFQ is for the provision of Destructive Testing services** required for seven welding procedures as well as one welder qualification test for each of the procedures.

DORMAC is developing suitable preliminary Welding Procedure Specifications (pWPS) for the following procedures:

1. **Welding Procedure qualification and endorsement** - Stainless steel 316L, 4inch 6G pipe, TIG root, SMAW fill and cap. Also covers plate up to 12mm in 1G position.  
**Welder Qualification test** (1x) - Stainless steel 316L, 4inch 6G pipe, TIG root, SMAW fill and cap. Also covers plate up to 12mm in 1G position.
2. **Welding Procedure qualification and endorsement** - SuperDuplex 2507, 6mm plate, 1G Butt weld TIG  
**Welder Qualification test** (1x) - SuperDuplex 2507, 6mm plate, 1G Butt weld TIG
3. **Welding Procedure qualification and endorsement** - Aluminium 5083, 6mm plate 1G Butt weld GMAW Pulse  
**Welder Qualification test** (1x) - Aluminium 5083, 6mm plate 1G Butt weld GMAW Pulse
4. **Welding Procedure qualification and endorsement** - Carbon Steel EH 36 to Stainless Steel 316L Butt weld 2G & 3G SMAW  
**Welder Qualification test** (1x) - Carbon Steel EH 36 to Stainless Steel 316L Butt weld 3G & 4G SMAW
5. **Welding Procedure qualification and endorsement** - Cast Steel to Carbon Steel, JIS SCW 550 to EH36 Butt 2G & 3G FCAW  
**Welder Qualification test** (1x) - Cast Steel to Carbon Steel, JIS SCW 550 to EH36 Butt 3G & 4G FCAW
6. **Welding Procedure qualification and endorsement** - Anchor Chain IACS Grade 3, 12mm Butt weld 1G SMAW  
**Welder Qualification test** (1x) - Anchor Chain IACS Grade 3, 12mm Butt weld 1G SMAW
7. **Welding Procedure qualification and endorsement** - Cunifer pipe procedure, 4inch pipe wall thickness 3mm 6G TIG  
**Welder Qualification test** (1x) - Cunifer pipe procedure, 4inch pipe wall thickness 3mm 6G TIG

Table 1. Services Required (please quote on):

|    | Company Name   | Services Required  |
|----|--|--|
| 1. | <p><b>DORMAC a division of Southey Holdings (PTY) Ltd.</b></p> <p><b>Location:</b> Durban, KZN</p> <p><b>Total Employees:</b> 81</p> <p><b>Operations:</b> Ship repair, Offshore Engineering, Industrial Manufacture and repair.</p> | <p><b>1. Stainless steel</b></p> <p>Base material: 316/316L<br/>Welding process: GTAW (root) &amp; SMAW (fill)<br/>Material thickness: 4inch pipe<br/>Welding position: 6G</p> <p>Qualification Standard: BV NR 216 Rules on Materials and Welding for the Classification of Marine Units</p> <p><b><u>Destructive Testing (1 Set):</u></b></p> <ul style="list-style-type: none"> <li>• Tensile test x 2</li> <li>• Bend test x 4 (side bends)</li> <li>• Hardness tests x 1 row</li> <li>• Macro x 1</li> </ul>  |
| 2. |  | <p><b>2. Super duplex</b></p> <p>Base material: 2507 (UNS S32750)<br/>Welding process: GMAW<br/>Material thickness: 6mm plate<br/>Welding position: 1G</p> <p>Qualification Standard: BV NR 216 Rules on Materials and Welding for the Classification of Marine Units</p> <p><b><u>Destructive Testing (1 Set):</u></b></p> <ul style="list-style-type: none"> <li>• Tensile test x 2</li> <li>• Bend test x 4 (2 x root and 2 x face bends)</li> <li>• Impact tests 3 sets of 3 = 9 pieces</li> <li>• Hardness tests x 3 rows</li> <li>• Macro x 1</li> </ul> |
| 3. |  | <p><b>3. Aluminium</b></p> <p>Base material: 5083<br/>Welding process: GMAW (Pulse)<br/>Material thickness: 6mm plate<br/>Welding position: 1G</p> <p>Qualification Standard: BV NR 216 Rules on Materials and Welding for the Classification of Marine Units</p> <p><b><u>Destructive Testing (1 Set):</u></b></p> <ul style="list-style-type: none"> <li>- Tensile test x 2</li> <li>- Bend test x 4 (2 x root and 2 x face bends)</li> </ul>  |

|    | Company Name | Services Required  |
|----|--------------|--|
|    |              | - Macro x 1  |
| 4. |              | <p><b>4. Carbon steel to Stainless steel</b></p> <p>Base material: EH36 to 316/316L<br/> Welding process: SMAW<br/> Material thickness: 6mm plate<br/> Welding positions: 2G &amp; 3G</p> <p>Qualification Standard: BV NR 216 Rules on Materials and Welding for the Classification of Marine Units</p> <p><b><u>Destructive Testing (2 Sets):</u></b></p> <ul style="list-style-type: none"> <li>- Tensile test x 2</li> <li>- Bend test x 4 (2 x root and 2 x face bends)</li> <li>- Impact tests 3 sets of 3 = 9 pieces</li> <li>- Hardness tests x 3 rows</li> <li>- Macro x 1</li> </ul> |
| 5. |              | <p><b>5. Carbon steel to Cast steel</b></p> <p>Base material: EH36 to JIS SCW 550<br/> Welding process: FCAW<br/> Material thickness: 12mm plate<br/> Welding positions: 2G &amp; 3G</p> <p>Qualification Standard: BV NR 216 Rules on Materials and Welding for the Classification of Marine Units</p> <p><b><u>Destructive Testing (2 Sets):</u></b></p> <ul style="list-style-type: none"> <li>- Tensile test x 2</li> <li>- Bend test x 4 (side bends)</li> <li>- Impact tests 3 sets of 3 = 9 pieces</li> <li>- Hardness tests x 3 rows</li> <li>- Macro x 1</li> </ul>                   |
| 6. |              | <p><b>6. Anchor chain</b></p> <p>Base material: IACS Grade 3<br/> Welding process: SMAW<br/> Material thickness: 12mm plate<br/> Welding position: 1G</p> <p>Qualification Standard: BV NR 216 Rules on Materials and Welding for the Classification of Marine Units</p> <p><b><u>Destructive Testing (1 Set):</u></b></p> <ul style="list-style-type: none"> <li>- Tensile test x 2</li> <li>- Bend test x 4 (side bends)</li> </ul>  |

|    | Company Name | Services Required  |
|----|--------------|--|
|    |              | <ul style="list-style-type: none"> <li>- Impact tests 3 sets of 3 = 9 pieces</li> <li>- Hardness tests x 3 rows</li> <li>- Macro x 1</li> </ul>  |
| 7. |              | <p><b>7. Cunifer pipe</b></p> <p>Base material: CuNi<br/> Welding process: GTAW<br/> Material thickness: 4inch pipe (3mm)<br/> Welding position: 6G</p> <p>Qualification Standard: EN ISO 15614-6</p> <p><b><u>Destructive Testing (1 Set):</u></b></p> <ul style="list-style-type: none"> <li>- Tensile test x 2</li> <li>- Bend test x 4 (2 x root and 2 x face bends)</li> <li>- Macro x 1</li> </ul> |

## 2 QUOTATION REQUIREMENTS

- Proof should be submitted that indicate that the bidder and/or subcontracted company is currently, or has recently, successfully conducted **destructive testing** according to an IACS member society's standard.
- Bidders must present proof that the laboratory is ISO 17025 accredited by SANAS. Accreditations should cover ISO standard for the tests that will be conducted.
- All travelling and transportation of samples should be clearly itemised and quoted on separately according to the CSIR's travel policy.  
See Section 7

## 3 Additional requirements

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

## 4 Elimination criteria

- 4.1 Late submission of quotes
- 4.2 Failure to adhere to quotation specifications

- 4.3 Submission at the wrong location or incorrect email address (Please submit electronically to [tender@csir.co.za](mailto:tender@csir.co.za))
- 4.4 No proof is submitted that the intended laboratory for destructive testing is a SANAS (or equivalent) accredited facility:
  - The laboratory has to be ISO 17025 accredited with ISO accreditation for the relevant procedures

## **5 EVALUATION CRITERIA**

- 5.1 Selection of suppliers will be based on the 80/20 preference point system.
- 5.2 Provide a certified copy of a valid B-BBEE Certificate, or valid sworn affidavit indicating the B-BBEE Status level. B-BBEE certificate must be issued by SANAS accredited agency or a valid sworn affidavit in line with DTI regulations.
- 5.3 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.
- 5.4 No order will be issued or no contract will be signed without a valid CSD number.

## **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 TRAVEL EXPENSES**

- 7.1 All travel expenses for the CSIR's account, be it directly via the CSIR's travel agent or indirectly via re-imbursements, must be in line with the CSIR's travel policy. The following will apply:
  - 7.1.1 Only economy class tickets will be used.
  - 7.1.2 A maximum of R1400 per night for accommodation, dinner, breakfast and parking will be allowed.
  - 7.1.3 No car rentals of more than a Group B will be accommodated.

Travelling should be quoted separately

## **8 OTHER TERMS AND CONDITIONS**

8.1 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.

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

**9 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.**

**10 Note: This is not a Purchase Order.**

**DECLARATION BY TENDERER**  
**Only tenderers who completed the declaration below will be considered for evaluation.**

**RFQ No: 5830-25-05-2022**

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / quotation specifications stipulated in RFQ No-5830-25-05-2022 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 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 quotation as the principal liable for the due fulfilment of this quotation.

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

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 quotation.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

**WITNESSES**

1 .....

2 .....

DATE: .....