

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2023/08/0004/37853/RFP
DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE
CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2)
WORKBOATS TO THE PORT OF CAPE TOWN.

Transnet National Port Authority

an Operating Division **TRANSNET SOC LTD**

[Registration Number 1990/000900/30]

REQUEST FOR PROPOSAL (RFP)

DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.

RFP NUMBER	: TNPA/2023/08/0004/37853/RFP
ISSUE DATE	: 07 December 2023
COMPULSORY TENDER CLARIFICATION MEETING	: 15 January 2024 @11h00
CLOSING DATE	: 31 January 2024
CLOSING TIME	: 16h00
TENDER VALIDITY PERIOD	: 180 business days from closing date

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Part T1: Tendering Procedures



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T1.1 TENDER NOTICE AND INVITATION TO TENDER

SECTION 1: NOTICE TO TENDERERS

1. INVITATION TO TENDER

Responses to this Tender [hereinafter referred to as a **Tender**] are requested from persons, companies, close corporations or enterprises [hereinafter referred to as a Tenderer].

DESCRIPTION	APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.
TENDER DOWNLOADING	<p>This Tender may be downloaded directly from these websites: ALL FREE OF CHARGE 1. National Treasury e-Tender Publication Portal at www.etenders.gov.za, 2. Transnet e-Tender Publication Portal website at https://transnetetenders.azurewebsites.net (Please use Google Chrome to access Transnet link), and</p>

COMPULSORY TENDER CLARIFICATION MEETING	<p>A Compulsory Tender Clarification Meeting will be conducted at 34 South Arm Road, HR/Procurement Building on Monday , 15th of January 2024 at 11:00am [11 O'clock in the morning] for a period of ± two (2) hours. Thereafter, a site walk will take place.</p> <ul style="list-style-type: none"> • Tenderers to provide own transportation and accommodation (if required). • Tenderers are required to wear safety shoes, goggles, long sleeve shirts, high visibility vests and hard hats. • Tenderers without the recommended PPE will not be allowed on the site walk. • Tenderers and their employees, visitors, clients, and customers entering Transnet Offices, Depots, Workshops and Stores will have to undergo breathalyser testing. • All forms of firearms are prohibited on Transnet properties and premises. <p>The relevant persons attending the meeting must ensure that their identity documents, passports, or driver's licences are on them for inspection at the access control gates.</p> <p>Certificate of Attendance in the form set out in the Returnable Schedule T2.2-01 hereto must be completed and submitted with your</p>
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	<p>Tender as proof of attendance is required for a compulsory tender clarification meeting briefing.</p> <p>Tenderers are required to bring this Returnable Schedule T2.2-01 to the Compulsory Tender Clarification Meeting to be signed by the <i>Employer's</i> Representative.</p> <p>Tenderers failing to attend the virtual-compulsory tender briefing will be disqualified.</p>
CLOSING DATE	<p>16:00 on (31 January 2024)</p> <p>Tenderers must ensure that tenders are uploaded timeously onto the system. If a tender is late, it will not be accepted for consideration.</p>

2. TENDER SUBMISSION

Transnet has implemented a new electronic tender submission system, the e-Tender Submission Portal, in line with the overall Transnet digitalization strategy where suppliers can view advertised tenders, register their information, log their intent to respond to bids and upload their bid proposals/responses on to the system.

a) The Transnet e-Tender Submission Portal can be accessed as follows:

Log on to the Transnet eTenders management platform website (<https://transnetetenders.azurewebsites.net>);

- Click on "ADVERTISED TENDERS" to view advertised tenders;
- Click on "SIGN IN/REGISTER – for bidder to register their information (must fill in all mandatory information);
- Click on "SIGN IN/REGISTER" - to sign in if already registered;
- Toggle (click to switch) the "Log an Intent" button to submit a bid;
- Submit bid documents by uploading them into the system against each tender selected.
- **Tenderers are required to ensure that electronic bid submissions are done at least a day before the closing date to prevent issues which they may encounter due to their internet speed, bandwidth or the size of the number of uploads they are submitting. Transnet will not be held liable for any challenges experienced by bidders as a result of the technical challenges. Please do not wait for the last hour to submit. A Tenderer can upload 30mb per upload and multiple uploads are permitted.**

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- b) The tender offers to this tender will be opened as soon as possible after the closing date and time. Transnet shall not, at the opening of tenders, disclose to any other company any confidential details pertaining to the Tender Offers / information received, i.e. pricing, delivery, etc. The names and locations of the Tenderers will be divulged to other Tenderers upon request.
- c) Submissions must not contain documents relating to any Tender other than that shown on the submission.

3. CONFIDENTIALITY

All information related to this RFP is to be treated with strict confidentiality. In this regard Tenderers are required to certify that they have acquainted themselves with the Non-Disclosure Agreement. All information related to a subsequent contract, both during and after completion thereof, will be treated with strict confidence. Should the need however arise to divulge any information gleaned from provision of the Works, which is either directly or indirectly related to Transnet's business, written approval to divulge such information must be obtained from Transnet.

4. DISCLAIMERS

Tenderers are hereby advised that Transnet is not committed to any course of action as a result of its issuance of this Tender and/or its receipt of a tender offer. In particular, please note that Transnet reserves the right to:

- 4.1. Award the business to the highest scoring Tenderer/s unless objective criteria justify the award to another tenderer.
- 4.2. Not necessarily accept the lowest priced tender or an alternative Tender;
- 4.3. Go to the open market if the quoted rates (for award of work) are deemed unreasonable;
- 4.4. Should the Tenderers be awarded business on strength of information furnished by the Tenderer, which after conclusion of the contract is proved to have been incorrect, Transnet reserves the right to terminate the contract;
- 4.5. Request audited financial statements or other documentation for the purposes of a due diligence exercise;

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- 4.6. Not accept any changes or purported changes by the Tenderer to the tender rates after the closing date;
 - 4.7. Verify any information supplied by a Tenderer by submitting a tender, the Tenderer/s hereby irrevocably grant the necessary consent to the Transnet to do so;
 - 4.8. Conduct the evaluation process in parallel. The evaluation of Tenderers at any given stage must therefore not be interpreted to mean that Tenderers have necessarily passed any previous stage(s);
 - 4.9. Unless otherwise expressly stated, each tender lodged in response to the invitation to tender shall be deemed to be an offer by the Tenderer. The Employer has the right in its sole and unfettered discretion not to accept any offer.
 - 4.10. Not be held liable if tenderers do not provide the correct contact details during the clarification session and do not receive the latest information regarding this RFP with the possible consequence of being disadvantaged or disqualified as a result thereof.
 - 4.11. Transnet reserves the right to exclude any Tenderers from the tender process who has been convicted of a serious breach of law during the preceding 5 [five] years including but not limited to breaches of the Competition Act 89 of 1998, as amended. Tenderers are required to indicate in tender returnable [clause 12 on T2.2-20], [**Breach of Law**] whether or not they have been found guilty of a serious breach of law during the past 5 [five] years.
 - 4.12. Transnet reserves the right to perform a risk analysis on the preferred tenderer to ascertain if any of the following might present an unacceptable commercial risk to the employer:
 - *unduly high or unduly low tendered rates or amounts in the tender offer;*
 - *contract data of contract provided by the tenderer; or*
 - *the contents of the tender returnables which are to be included in the contract.*
5. Transnet will not reimburse any Tenderer for any preparatory costs or other work performed in connection with this Tender, whether or not the Tenderer is awarded a contract.

6. NATIONAL TREASURY'S CENTRAL SUPPLIER DATABASE

Tenderer are required to self-register on National Treasury's Central Supplier Database (CSD) which has been established to centrally administer supplier information for all organs of state and facilitate the verification of certain key supplier information. The CSD can be accessed at

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<https://secure.csd.gov.za/>. Tenderer are required to provide the following to Transnet in order to enable it to verify information on the CSD:

Supplier Number..... and Unique registration reference number.....(**Tender Data**)

**Transnet urges its clients, suppliers and the general public
to report any fraud or corruption to
TIP-OFFS ANONYMOUS: 0800 003 056 OR Transnet@tip-offs.com**

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T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Engineering and Construction Works Contracts. The Standard for Uniformity in Construction Procurement was first published in Board Notice 62 of 2004 in Government Gazette No 26427 of 9 June 2004. It was subsequently amended in Board Notice 67 of 2005 in Government Gazette No 28127 of 14 October 2005, Board Notice 93 of 2006 in Government Gazette No 29138 of 18 August 2006, Board Notice No 9 of 2008 in Government Gazette No 31823 of 30 January 2009, Board Notice 86 of 2010 in Government Gazette No 33239 of 28 May 2010, Board Notice 136 of 2015 in Government Gazette 38960 of 10 July 2015 and Board Notice 423 of 2019 in Government Gazette No 42622 of 8 August 2019.

This edition incorporates the amendments made in Board Notice 423 of 2019 in Government Gazette 42622 of 8 August 2019. (see www.cidb.org.za).

The Standard Conditions of Tender make several references to Tender data for detail that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Each item of data given below is cross-referenced in the left-hand column to the clause in the Standard Conditions of Tender to which it mainly applies.

Clause	Data
C.1.1 The <i>Employer</i> is	Transnet SOC Ltd (Reg No. 1990/000900/30)
C.1.2 The tender documents issued by the <i>Employer</i> comprise:	
Part T: The Tender	
Part T1: Tendering procedures	T1.1 Tender notice and invitation to tender T1.2 Tender data
Part T2: Returnable documents	T2.1 List of returnable documents T2.2 Returnable schedules
Part C: The contract	
Part C1: Agreements and contract data	C1.1 Form of offer and acceptance C1.2 Contract data (Part 1 & 2) C1.3 Form of Securities
Part C2: Pricing data	C2.1 Pricing instructions C2.2 Activity Schedule

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Part C3: Scope of work C3.1 Scope of Works

Part C4: Site information C4.1 Site information

C.1.4 The Employer's agent is: Procurement Manager

Name: Mbaliyamaswazi Maqekeni

Address: Transnet National Ports Authority
TNPA Building
34 South Arm Road
Port of Cape Town
8001

Tel No. (021) 449 5803

E – mail Mbali.maqekeni@transnet.net

C.2.1 Only those tenderers who satisfy the following eligibility criteria are eligible to submit tenders:

1. Stage One - Eligibility with regards to attendance at the compulsory clarification meeting:

An authorised representative of the tendering entity or a representative of a tendering entity that intends to form a Joint Venture (JV) must attend the compulsory clarification meeting in terms C2.7

2. Stage Two - Functionality:

Only those tenderers who obtain the minimum qualifying score for functionality will be evaluated further in terms of price and the applicable preference point system. The minimum qualifying for score for functionality is **60 points**.

The evaluation criteria for measuring functionality and the points for each criteria and, if any, each sub-criterion are as stated in C.3.11.3 below.

Any tenderer that fails to meet the stipulated pre-qualifying criteria will be regarded as an unacceptable tender.

3. Stage Three – Specific Goals

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C.2.7 The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender. **Tenderers must complete and sign the attendance register.** Addenda will be issued to and tenders will only be received from those tendering entities including those entities that intends forming a joint venture appearing on the attendance register.

Tenderers are also **required to bring their RFP document to the briefing session and have their returnable document T2.2-01 certificate of attendance** signed off by the Employer’s authorised representative.

C.2.12 No alternative tender offers will be considered.

C.2.13.3 Each tender offer shall be in the **English Language.**

C.2.13.5 The *Employer's* details and identification details that are to be shown on each tender offer are as follows:

Identification details:	The tender documents must be uploaded with: Name of Tenderer:
	Contact person and details:
	The Tender Number: TNPA/2023/08/0004/37853/RFP The Tender Description: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN
	Documents must be marked for the attention of: <i>Employer's Agent:</i>

C.2.13.9 Telephonic, telegraphic, facsimile or e-mailed tender offers will not be accepted.

C.2.15 The closing time for submission of tender offers is:
Time: **16:00** on the **31 January 2024**
Location: The Transnet e-Tender Submission Portal:
(<https://transnetetenders.azurewebsites.net>);

NO LATE TENDERS WILL BE ACCEPTED

C.2.16 The tender offer validity period is **180 business days from closing date.** Tenderers are to note that they may be requested to extend the validity period of their tender, on the same terms and conditions, if Transnet’s internal evaluation and

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governance approval processes has not been finalised within the validity period.

C.2.23 The tenderer is required to submit with his tender:

1. A valid Tax Clearance Certificate issued by the South African Revenue Services.
Tenderers also to provide Transnet with a TCS PIN to verify Tenderers compliance status.
2. A **valid B-BBEE Certificate** from a Verification Agency accredited by the South African Accreditation System [**SANAS**], or a **sworn affidavit** confirming annual turnover and level of black ownership in case of all EMEs and QSEs with 51% black ownership or more together with the tender;
3. Proof of registration on the Central Supplier Database;
4. Letter of Good Standing with the Workmen's compensation fund by the tendering entity or separate Letters of Good Standing from all members of a newly constituted JV.

Note: Refer to Section T2.1 for List of Returnable Documents

C3.11 The minimum number of evaluation points for functionality is: **60**

The procedure for the evaluation of responsive tenders is Functionality, Price and Preference:

Only those tenderers who attain the minimum number of evaluation points for Functionality will be eligible for further evaluation, failure to meet the minimum threshold will result in the tender being disqualified and removed from any further consideration.

Functionality Criteria

The functionality criteria and maximum score in respect of each of the criteria are as follows and shall be scored independently by not less than 3 (three) evaluators and averaged in accordance with the following schedules:

- T2.2-02 Previous Experience in Shipbuilding
- T2.2-03 Management & CVs of Key Personnel and Organogram
- T2.2-04 Programme
- T2.2-05 Health and Safety Requirements
- T2.2-06 Method Statement
- T2.2-07 Quality Expectations

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Each evaluation criteria will be assessed in terms of scores of 0, 20, 40, 60, 80 or 100. The scores of each of the evaluators will be averaged, weighted and then totalled to obtain the final score for functionality. (See CIDB Inform Practice Note #9).

Note: Any tender not complying with the above-mentioned requirements, will be regarded as non-responsive and will therefore not be considered for further evaluation. This note must be read in conjunction with Clause C.2.1.

C.3.11. Stage Four – Specific Goals

Only tenders that achieve the minimum qualifying score for functionality will be evaluated further in accordance with the 90/10 preference points systems as described in Preferential Procurement Regulations.

90 where the financial value of one or more responsive tenders received have a value equal to or higher than R50 million, inclusive of all applicable taxes,

Thresholds	Minimum Threshold
Technical / functionality	60

Evaluation Criteria	Final Weighted Scores
Price and Total Cost of Ownership	90
Specific goals- scorecard	10
TOTAL SCORE:	100

Up to 100 minus W1 tender evaluation points will be awarded to tenderers who complete the preferencing schedule and who are found to be eligible for the preference claimed.

Should the evidence required for any of the Specific Goals applicable in this tender not be provided, a tenderer will score zero preference points for that particular "Specific Goal".

In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, following preference points must be awarded to a bidder who provides the relevant req evidence for claiming points.

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Specific Goals	Number of points (90/10 system)
B-BBEE Status Level of Contributor 1 or 2	3.00
The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: I. EMEs and/or QSEs who are 51% black-owned	7.00
Non-compliant and/or B-BBEE Level 3-8 contributors	0.00
Total number of preference points	10.00

The following Table represents the evidence to be submitted for claiming preference points for applicable specific goals in a particular tender:

Specific Goals	Evidence Required
T2.2-08 B-BBEE Status Level of Contributor 1 or 2	B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline
T2.2-09 The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: I. EMEs and/or QSEs who are 51% black-owned	Sub-contracting agreements and Declaration / Joint Venture Agreement and CIPC – B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate as per DTIC guideline

The maximum points for this bid are allocated as follows:

	POINTS
PRICE	90
<ul style="list-style-type: none"> B-BBEE Status Level of Contributor 1 or 2 (2 points) The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: 	10

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<p>I. EMEs and/or QSEs who are 51% black- owned (7 points)</p> <ul style="list-style-type: none"> • Non-Compliant and/or B-BBEE Level 3-8 contributors (0 Points) 	
<p>Total points for Price and B-BBEE must not exceed</p>	<p>100</p>

Note: Transnet reserves the right to carry out an independent audit of the tenderers scorecard components at any stage from the date of close of the tenders until completion of the contract.

C.3.17 The number of paper copies of the signed contract to be provided

Tender offers will only be accepted if:

1. The tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
2. the tenderer does not appear on Transnet’s list for restricted tenderers and National Treasury’s list of Tender Defaulters;
3. the tenderer has fully and properly completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer’s ability to perform the contract in the best interests of the Employer or potentially compromise the tender process and persons in the employ of the state.
4. Transnet reserves the right to award the tender to the tenderer who scores the highest number of points overall, unless there are **objective criteria** which will justify the award of the tender to another tenderer. Objective criteria include but are not limited to the outcome of a due diligence exercise to be conducted. The due diligence exercise may take the following factors into account inter alia;

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Tender offers will only be accepted if:

the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
- c) has the legal capacity to enter into the contract,
- d) is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,
- e) complies with the legal requirements, if any, stated in the tender data and
- f) is able, in the option of the employer to perform the contract free of conflicts of interest.

C.3.17 The number of paper copies of the signed contract to be provided by the Employer is 1 (one).



Part C1:
Agreements and
Contract Data

C1.2 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	<p>General</p> <p>The <i>conditions of contract</i> are the core clauses and the clauses for main Option</p>	<p>A: Priced contract with activity schedule</p> <hr/> <p>W1: Dispute resolution procedure</p> <hr/> <p>dispute resolution Option and secondary Options</p> <p>X1: Price adjustment for inflation</p> <p>X2: Changes in the law</p> <p>X4: Parent company guarantee</p> <p>X7: Delay damages</p> <p>X13: Performance Bond</p> <p>X14: Advanced payment to the Contractor</p> <p>X16: Retention</p> <p>X18: Limitation of liability</p> <p>Z: <i>Additional conditions of contract</i></p>
10.1	<p>of the NEC3 Engineering and Construction Contract June 2005 (amended June 2006 and April 2013)</p> <hr/> <p>The <i>Employer</i> is:</p>	<p>Transnet SOC Ltd (Registration No. 1990/000900/30)</p>

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Address

Registered address:

Registered address:
 eMendi Admin Building, Klub Road,
 Port of Ngqura, Neptune Road,
 Coega, PORT ELIZABETH, 6100

Having elected its Contractual Address for the purposes of this contract as:

**Transnet National Ports Authority
 (REGISTRATION NO.1990/000900/30),
 trading through its Operating Division,
 Transnet National Ports Authority
 South Arm Road
 Cape Town
 8001**

10.1	The <i>Project Manager</i> is: (Name)	Phumlani Vilakazi
	Address	.....
	Tel	.....
	e-mail	phumlani.vilakazi3@transnet.net

10.1	The <i>Supervisor</i> is: (Name)	TBA
	Address	
	Tel No.	
	e-mail	

11.2(13)	The <i>works</i> are	Appointment of a Contractor to undertake the complete construction, assemble, Paint, Commission, deliver, operationalize and hand over of Two (2) Workboats to the Port Of Cape Town
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11.2(14)	The following matters will be included in the Risk Register	No additional data is required for this section of the conditions of contract.
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11.2(15)	The <i>boundaries of the site</i> are	As stated in Part C4.1."Description of the Site and it surroundings". Contractor to describe/state where his site will be as well as the boundaries of the site. The Contractor to state how he will bring the boats onto site.
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11.2(16)	The Site Information is in	Part C4	
11.2(19)	The Works Information is in	Part C3	
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa subject to the jurisdiction of the Courts of South Africa.	
13.1	The <i>language of this contract</i> is	English	
13.3	The <i>period for reply</i> is	2 weeks	
2	The Contractor's main responsibilities	No additional data is required for this section of the <i>conditions of contract</i>.	
3	Time		
11.2(3)	The <i>completion date</i> for the whole of the <i>works</i> is	15 December 2025	
11.2(9)	The <i>key dates</i> and the <i>conditions</i> to be met are:	Condition to be met	key date
		1 Site Access	12 April 2024
		2	
		3	
30.1	The <i>access dates</i> are	Part of the Site	Date
		1 Main Construction Workshop	12 April 2024
		2	
		3	
31.1	The <i>Contractor</i> is to submit a first programme for acceptance within	2 weeks of the Contract Date.	
31.2	The <i>starting date</i> is	12 April 2024	
32.2	The <i>Contractor</i> submits revised programmes at intervals no longer than	2 weeks.	
35.1	The <i>Employer</i> is not willing to take over the <i>works</i> before the Completion Date.		

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4 Testing and Defects

42.2 The *defects date* is **52 (fifty two) weeks after Completion of the whole of the *works*.**

43.2 The *defect correction period* is **2 weeks**

5 Payment

50.1 The *assessment interval* is **18th (eighteenth) day of each successive monthly on the month.**

51.1 The *currency of this contract* is **South African Rand.**
 the

51.2 The period within which **Payment will be effected on or before the last day of the month following the month during which a valid Tax Invoice and Statement were received.**
 payments are made is

51.4 The *interest rate* is **the prime lending rate of Rand Merchant Bank of South Africa.**

6 Compensation events

60.1(13) The *weather measurements* to be recorded for each calendar month are, **The cumulative of**

- **Before the Completion Date for the whole of the works and**
- **At the place stated in the Contract Data**

The value of which, by comparison with the weather data, is shown to occur on average less frequently than once in ten years.

Only the difference between the weather measurement and weather which the weather data show to occur on average less frequently than once in ten years is taken into account

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The place where weather is to be recorded (on the Site) is: **The *Contractor's* Site establishment area as well as the Harbor**

The *weather data* are the records of past *weather measurements* for each calendar month which were recorded at: **Cape Town**

and which are available from: **South African Weather Service 012 367 6023 or info3@weathersa.co.za.**

7	Title	No additional data is required for this section of the <i>conditions of contract</i>.
8	Risks and insurance	
80.1	These are additional <i>Employer's</i> risks	No additional data is required for this section of the conditions of contract
84.1	The <i>Employer</i> provides these insurances from the Insurance Table	
	1 Insurance against:	Loss of or damage to the <i>works</i>, Plant and Materials is as stated in the Insurance policy for Contract Works/ Public Liability.
	Cover / indemnity:	to the extent as stated in the insurance policy for Contract Works / Public Liability
	The deductibles are:	as stated in the insurance policy for Contract Works / Public Liability

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<p>2 Insurance against:</p> <p>Cover / indemnity</p> <p>The deductibles are</p>	<p>Loss of or damage to property (except the works, Plant and Materials & Equipment) and liability for bodily injury to or death of a person (not an employee of the Contractor) arising out of or in connection with the performance of the Contract as stated in the insurance policy for Contract Works / Public Liability</p> <p>Is to the extent as stated in the insurance policy for Contract Works / Public Liability</p> <p>as stated in the insurance policy for Contract Works / Public Liability</p>
<p>3 Insurance against:</p> <p>Cover / indemnity</p> <p>The deductibles are:</p>	<p>Loss of or damage to Equipment (Temporary Works only) as stated in the insurance policy for contract Works and Public Liability</p> <p>Is to the extent as stated in the insurance policy for Contract Works / Public Liability</p> <p>As stated in the insurance policy for Contract Works / Public Liability</p>
<p>4 Insurance against:</p> <p>Cover / indemnity</p> <p>The deductibles are</p>	<p>Contract Works SASRIA insurance subject to the terms, exceptions and conditions of the SASRIA coupon</p> <p>Cover / indemnity is to the extent provided by the SASRIA coupon</p> <p>The deductibles are, in respect of each and every theft claim, 0,1% of the contract value subject to a minimum of R2,500 and a maximum of R25,000.</p>
<p>Note:</p>	<p>The deductibles for the insurance as stated above are listed in the document titled "Certificate of Insurance: Transnet (SOC) Limited Principal Controlled Insurance."</p>

84.1 The minimum limit of indemnity for insurance in respect of death of or bodily injury to employees of the *Contractor* arising out of and in the course of their employment in connection with this contract for any one event is

The *Contractor* must comply at a minimum with the provisions of the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 as amended.

The *Contractor* provides these additional Insurances

- 1 Where the contract requires that the design of any part of the *works* shall be provided by the *Contractor* the *Contractor* shall satisfy the *Employer* that professional indemnity insurance cover in connection therewith has been affected**
- 2 Where the contract involves manufacture, and/or fabrication of Plant & Materials, components or other goods to be incorporated into the *works* at premises other than the site, the *Contractor* shall satisfy the *Employer* that such plant & materials, components or other goods for incorporation in the *works* are adequately insured during manufacture and/or fabrication and transportation to the site.**
- 3 Should the *Employer* have an insurable interest in such items during manufacture, and/or fabrication, such interest shall be noted by endorsement to the *Contractor's* policies of insurance as well as those of any sub-contractor**
- 4 Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger and Unauthorised Passenger Liability indemnity with a minimum indemnity limit of R10 000 000.**
- 5 Marine Craft Hull insurance in respect of all marine craft or vessels utilised in performance of the Works for a sum sufficient to provide for their replacement**

6 Protection and Indemnity Insurance in respect of all marine craft or vessels utilised in performance of the Works extended for Specialist Operations with a minimum indemnity limit of R 20,000,000

7 The insurance coverage referred to in 1, 2, 3, 4, 5 and 6 above shall be obtained from an insurer(s) in terms of an insurance policy approved by the *Employer*. The *Contractor* shall arrange with the insurer to submit to the *Project Manager* the original and the duplicate original of the policy or policies of insurance and the receipts for payment of current premiums, together with a certificate from the insurer or insurance broker concerned, confirming that the policy or policies provide the full coverage as required. The original policy will be returned to the *Contractor*.

84.2 The minimum limit of indemnity for insurance in respect of loss of or damage to property (except the works, Plant, Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the *Contractor*) caused by activity in connection with this contract for any one event is

Whatever the *Contractor* requires in addition to the amount of insurance taken out by the *Employer* for the same risk.

84.3 The insurance against loss of or damage to the works, Plant and Materials as stated in the insurance policy for contract works and public liability selected from:

Principal Controlled Insurance policy for Contract OR Project Specific Insurance for the contract

9 Termination

There is no additional Contract Data required for this section of the *conditions of contract*.

10	Data for main Option clause	
A	Priced contract with Activity Schedule	No additional data is required for this Option.
11	Data for Option W1	
W1.1	The <i>Adjudicator</i> is	Both parties will agree as and when a dispute arises. If the parties cannot reach an agreement on the <i>Adjudicator</i>, the Chairman of the Association of Arbitrators will appoint an <i>Adjudicator</i>.
W1.2(3)	The <i>Adjudicator nominating body</i> is: If no <i>Adjudicator nominating body</i> is entered, it is:	The Chairman of the Association of Arbitrators (Southern Africa) the Association of Arbitrators (Southern Africa)
W1.4(2)	The <i>tribunal</i> is:	Arbitration
W1.4(5)	The <i>arbitration procedure</i> is	The Rules for the Conduct of Arbitrations of the Association of Arbitrators (Southern Africa)
	The place where arbitration is to be held is	Cape Town, South Africa
	The person or organisation who will choose an arbitrator - if the Parties cannot agree a choice or - if the arbitration procedure does not state who selects an arbitrator, is	The Chairman of the Association of Arbitrators (Southern Africa)
12	Data for secondary Option clauses	
X1	Price adjustment for inflation	
X1.1(a)	The <i>base date</i> for indices is	A month before the tender closes
X1.1(c)	The proportions used to calculate the Price Adjustment Factor are:	Pro-portion linked to index Index prepared by for

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		0.30	Labour (People)	The SEIFSA Labour Indices: Table C-
		0.15	Steel	SEIFSA TABLE E-EX
		0.50	Equipment	SEIFSA Table U
		0.05	Fix	0.05
		1.00		
		0.15	Non-adjustable	
*Statistical release P0151 – Contract Price Adjustment Provisions (CPAP) Work Group and Selected Materials Indices				
X2	Changes in the law	No additional data is required for this Option		
X4	Parent company guarantee	No additional data is required for this Option		
X7	Delay damages			
X7.1	Delay damages for Completion of the whole of the <i>works</i> are	R10 400 per day		
X13	Performance bond			
X13.1	The amount of the performance bond is	10% of the total of the Prices. Bond will be accepted by the Project Manager. It should be an approved Bank of TNPA. The Bond will be original and registered at the Project Manager office. A copy to be emailed to the Contracts Manager.		
X14	Advanced Payment	The <i>Employer</i> will make an advanced payment of 10%, however an instalment is included in each amount due. The <i>Contractor</i> will issue the <i>Employer</i> with an equivalent percentage Advanced Payment Bond from an authorised TNPA bank. It will be vetted by the Contracts Manager		

X14.3		The advanced payment is repaid to the <i>Employer</i> by the <i>Contractor</i> in instalments of 16% of the value of the Advanced payment until refunded in full as from the first invoice on the Contract. However, this terms and conditions can be agreed upon during post tender negotiations.
X16	Retention	
X16.1	The retention free amount is	Nil
	The retention percentage is	5% on all payments certified.
X18	Limitation of liability	
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to:	To the consequential loss it causes TNPA
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to:	The deductible of the relevant insurance policy
X18.3	The <i>Contractor's</i> liability for Defects due to his design which are not listed on the Defects Certificate is limited to:	The cost of correcting the Defect
X18.4	The <i>Contractor's</i> total liability to the <i>Employer</i> for all matters arising under or in connection with this contract, other than excluded matters, is limited to:	The Total of the Prices
X18.5	The <i>end of liability date</i> is	5 years after Completion of the whole of the works

**Z3 Additional clauses relating to
Joint Venture**

Z3.1

Insert the additional core clause 27.5

27.5. In the instance that the *Contractor* is a joint venture, the *Contractor* shall provide the *Employer* with a certified copy of its signed joint venture agreement, and in the instance that the joint venture is an 'Incorporated Joint Venture,' the Memorandum of Incorporation, within 4 (four) weeks of the Contract Date. The Joint Venture agreement shall contain but not be limited to the following:

- **A brief description of the Contract and the Deliverables;**
- **The name, physical address, communications addresses and domicilium citandi et executandi of each of the constituents and of the Joint Venture;**
- **The constituent's interests;**
- **A schedule of the insurance policies, sureties, indemnities and guarantees which must be taken out by the Joint Venture and by the individual constituents;**
- **Details of an internal dispute resolution procedure;**
- **Written confirmation by all of the constituents:**
 - i. **of their joint and several liabilities to the *Employer* to Provide the Works;**
 - ii. **identification of the lead partner in the joint venture confirming the authority of the lead partner to bind the joint venture through the *Contractor's* representative;**

- iii. Identification of the roles and responsibilities of the constituents to provide the Works.
- Financial requirements for the Joint Venture:
 - iv. the working capital requirements for the Joint Venture and the extent to which and manner whereby this will be provided and/or guaranteed by the constituents from time to time;
 - v. the names of the auditors and others, if any, who will provide auditing and accounting services to the Joint Venture.

Z3.2

Insert additional core clause 27.6

27.6. The *Contractor* shall not alter its composition or legal status of the Joint Venture without the prior approval of the *Employer*.

Z4 Additional obligations in respect of Termination

Z4.1

The following will be included under core clause 91.1:

In the second main bullet, after the word 'partnership' add 'joint venture whether incorporate or otherwise (including any constituent of the joint venture)' and

Under the second main bullet, insert the following additional bullets after the last sub-bullet:

- commenced business rescue proceedings (R22)
- repudiated this Contract (R23)

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Z7 Protection of Personal Information Act

Z7.1 The *Employer* and the *Contractor* are required to process information obtained for the duration of the Agreement in a manner that is aligned to the Protection of Personal Information Act.

BBBEE Clauses

Z8.1 **27.7.1.** The *Employer* encourages its *Contractors* to constantly strive to improve their B-BBEE Contributor Status Levels.

Z9 Hedging of Foreign Currency Exposures The Contractor confirms that:

- Z9.1**
- It has the sole responsibility for the implementation and management of foreign currency hedging contracts (the Hedging Contracts) for the purposes of providing protection against the foreign currency exposure assumed by the Contractor under this contract to fluctuations in the Rand exchange rate against other currencies.
 - The Employer has no liability, financial or otherwise, to the Contractor or any other person under or in connection with the Hedging Contracts
 - It has made its own independent appraisal of all risks arising under or in connection with the Hedging Contracts (including the financial condition and affairs of the relevant hedge counterparty) and
 - It has not relied on any information provided to it by the Employer in connection with the relevant hedge counterparty or the Hedging Contracts.
- Z9.2**
- The Employer shall verify the costs of the hedging contracts before entered into by the Contractor (and the Contractor shall provide to the Employer copies of all relevant supporting documentation reasonably required to do so). If the Employer is able to obtain foreign currency hedging quotations (substantially similar, but no less beneficial), for hedging contracts at a lower cost, the Contractor shall reduce its cost of hedging to values as agreed with the Company. This process should be finalised within 10 business days after date of signature of agreement or earlier.

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Z9.3 The Employer shall reimburse the Contractor for the cost of hedging incurred in accordance with the provisions of this clause.

Z10. Escrow Account

Z10.1 - The Contractor will open an Escrow account and appoint an Escrow Agent if TNPA deems it necessary

Z10.2 The Contractor shall be responsible for payment of the Initial fee and any Updated fees or Storage fees

Z11 Intellectual Property

All right, title and interest in and to background intellectual property (initial designs before modifications by the Employer's request) shall vest with Contractor and Transnet acknowledges that it has no claim of any nature in and to the background intellectual property or improvements thereto. Transnet shall not at any time during or after the termination or cancellation of this agreement dispute the validity or enforceability of such background intellectual property, or cause to be done any act or anything contesting or in any way impairing or tending to impair any part of that right, title and interest to any of the background intellectual property or improvements thereto and shall not counsel or assist any person to do so.

The Employer shall retain all intellectual property rights on the design, specification, general arrangement plan and any working drawings, technical descriptions, calculations, test results and any other data, information and documents, concerning the design and construction of the vessel, including all intellectual property rights relating to the same, and the Contractor undertakes not to disclose same to third parties, without the prior written consent of the Employer, which shall not be withheld unreasonably to the extent required for the purpose of carrying out repairs to the vessel.

Title to the vessel

- During construction, the vessel shall be Contractor's property. Title to the vessel shall pass to the Employer upon the delivery of the vessel in accordance with the provisions of clause 11.2 (9) hereof.
- On the Delivery of the Vessel to the Employer, risk in and every responsibility for the safety and

generally for the condition of the Vessel will be transferred to the Employer and thereafter all responsibilities and liabilities of any nature whatsoever on the part of Contractor shall cease as per clause X18.5 hereof.

- The Contractor grants the Employer a licence to use the copyright in all design data presented to the Employer in relation to the works for any purpose in connection with the construction, reconstruction, refurbishment, repair, maintenance and extension of the works with such licence being capable of transfer to any third party without the consent of the Contractor.

Infringement of Intellectual Property

- In the event of any claims arising out of an infringement or alleged infringement of any Intellectual Property Rights in respect of the Vessel, the Contractor's sole obligation shall be to modify the Vessel to the extent necessary to remedy infringements for which the Contractor is liable if reasonably possible. The Contractor shall make such modification at its own cost provided:
 - the infringement or alleged infringement is towards Intellectual Property Rights published in official European or South African public patent registers at the date of signing this Agreement; or
 - the infringement or alleged infringement has not arisen or accrued out of any methods or use of the Vessel for a purpose for which it was not designed, or any modification to the Vessel undertaken by the Employer or its affiliates or subcontractors; or
 - the infringement or alleged infringement has not arisen or accrued from the property, equipment, ideas, methods, process, specifications, design furnished or directed by Transnet, including Transnet's Background Intellectual Property.

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- The Employer and Contractor shall inform each other immediately of any infringement of alleged infringement. Neither the Employer nor the Contractor shall make any admissions to third parties which could affect the other Party without the written consent of the other Party.

Z12 Cession, delegation, and assignment

The Supplier shall not cede, delegate or assign any of its rights or obligations to any person without the written consent of the Purchaser, which consent shall not be unreasonably withheld. This clause shall be binding on the liquidator/business rescue practitioner/trustee (whether provisional or not) of the Supplier

C1.2 Contract Data

Part two - Data provided by the *Contractor*

The tendering *Contractor* is advised to read both the NEC3 Engineering and Construction Contract - June 2005 (with amendments June 2006 and April 2013) and the relevant parts of its Guidance Notes (ECC3-GN) in order to understand the implications of this Data which the tenderer is required to complete. An example of the completed Data is provided on pages 156 to 158 of the ECC3 Guidance Notes.

Completion of the data in full, according to Options chosen, is essential to create a complete contract.

Clause	Statement	Data
10.1	The <i>Contractor</i> is (Name):	
	Address	
	Tel No.	
	Fax No.	
11.2(8)	The <i>direct fee percentage</i> is	%
	The <i>subcontracted fee percentage</i> is	%
11.2(18)	The <i>working areas</i> are the Site and	
24.1	The <i>Contractor's</i> key persons are:	
	1 Name:	
	Job:	
	Responsibilities:	
	Qualifications:	
	Experience:	
	2 Name:	
	Job	
	Responsibilities:	
	Qualifications:	

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	Experience:			
		CV's (and further key persons data including CVs) are appended to Tender Schedule entitled .		
11.2(14)	The following matters will be included in the Risk Register			
31.1	The programme identified in the Contract Data is			
A	Priced contract with activity schedule			
11.2(20)	The <i>activity schedule</i> is in			
11.2(30)	The tendered total of the Prices is	(in figures) (in words), excluding VAT		
A	Priced contract with activity schedule	Data for the Shorter Schedule of Cost Components		
41 in SCCC	The percentage for people overheads is:	%		
21 in SCCC	The published list of Equipment is the last edition of the list published by			
	The percentage for adjustment for Equipment in the published list is	% (state plus or minus)		
22 in SCCC	The rates of other Equipment are:	Equipment	Size or capacity	Rate
61 in SCCC	The hourly rates for Defined Cost of design outside the Working Areas are	Category of employee		Hourly rate

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62	in	The percentage for design overheads is	%
SSCC			
63	in	The categories of design employees whose travelling expenses to and from the Working Areas are included in Defined Cost are:	
SSCC			

C1.3 Forms of Securities

Pro forma Performance Guarantee

For use with the NEC3 Engineering & Construction Contract - June 2005 (with amendments June 2006 and April 2013)

The *conditions of contract* stated in the Contract Data Part 1 include the following Secondary Option:

Option X13: Performance bond

The pro forma document for this Guarantee is provided here for convenience but is to be treated as part of the *Works Information*.

The organisation providing the Guarantee does so by copying the pro forma document onto its letterhead without any change to the text or format and completing the required details. The completed document is then given to the *Employer* within the time stated in the contract.

The Performance Bond needs to be issued by an institution that are reasonably acceptable to the *Employer*.

Transnet may choose to not to accept an Issuer. Should the issuer not being accepted, the performance bond needs to be replaced by an issuer that are acceptable to Transnet. Issuers need to be verified for acceptance by Transnet before a performance bond is issued.



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Pro-forma Performance Bond (for use with Option X13)

(to be reproduced exactly as shown below on the letterhead of the Surety)

Transnet SOC Ltd
 C/o Transnet National Ports Authority
 Transnet Corporate Centre
 138 Eloff Street
 Braamfontein
 Johannesburg
 2000

Date:

Dear Sirs,

Performance Bond for Contract No.

With reference to the above numbered contract made or to be made between

Transnet SOC Limited, Registration No. 1990/000900/30 (the *Employer*) and

{Insert registered name and address of the *Contractor*} (the *Contractor*), for

{Insert details of the *works* from the Contract Data} (the *works*).

I/We the undersigned

on behalf of the
 Guarantor

of physical address

.....

and duly authorised thereto do hereby bind ourselves as Guarantor and co-principal debtors in solidum for the due and faithful performance of all the terms and conditions of the Contract by the *Contractor* and for all losses, damages and expenses that may be suffered or incurred by the *Employer* as a result of non-performance of the Contract by the *Contractor*, subject to the following conditions:

1. The terms *Employer, Contractor, Project Manager, works* and Completion Certificate have the meaning as assigned to them by the *conditions of contract* stated in the Contract Data for the aforesaid Contract.
2. We renounce all benefits from the legal exceptions "Benefit of Excussion and Division", "No value received" and all other exceptions which might or could be pleaded against the validity of this bond, with the meaning and effect of which exceptions we declare ourselves to be fully acquainted.
3. The *Employer* has the absolute right to arrange his affairs with the *Contractor* in any manner which the *Employer* deems fit and without being advised thereof the Guarantor shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the Guarantor. Without derogating from the foregoing compromise, extension of the construction period, indulgence, release or variation of the *Contractor's* obligation shall not affect the validity of this performance bond.

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4. This bond will lapse on the earlier of
- the date that the Guarantor receives a notice from the *Project Manager* stating that the Completion Certificate for the whole of the *works* has been issued, that all amounts due from the *Contractor* as certified in terms of the contract have been received by the *Employer* and that the *Contractor* has fulfilled all his obligations under the Contract, or
 - the date that the Surety issues a replacement Performance Bond for such lesser or higher amount as may be required by the *Project Manager*.
5. Always provided that this bond will not lapse in the event the Guarantor is notified by the *Project Manager*, (before the dates above), of the *Employer's* intention to institute claims and the particulars thereof, in which event this bond shall remain in force until all such claims are paid and settled.
6. The amount of the bond shall be payable to the *Employer* upon the *Employer's* demand and no later than 7 days following the submission to the Guarantor of a certificate signed by the *Project Manager* stating the amount of the *Employer's* losses, damages and expenses incurred as a result of the non-performance aforesaid. The signed certificate shall be deemed to be conclusive proof of the extent of the *Employer's* loss, damage and expense.
7. Our total liability hereunder shall not exceed the sum of:
- (say) _____
- R _____
8. This Performance Bond is neither negotiable nor transferable and is governed by the laws of the Republic of South Africa, subject to the jurisdiction of the courts of the Republic of South Africa

Signed at _____ on this _____ day of _____ 201_

Signature(s)	
Name(s) (printed)	
Position in Guarantor company	
Signature of Witness(s)	
Name(s) (printed)	



Part C2: Pricing Data



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PART 2: PRICING DATA

Document reference	Title	No of pages
C2.1	Pricing instructions: Option A	2
C2.2	Activity Schedule	1
C2.2.1	Payment Schedules	1



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DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.

C2.1 Pricing instructions: Option A

1. The conditions of contract

1.1. How the contract prices work and assesses it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005, (with amendments June 2006 and April 2013) (ECC) Option A states:

Identified and defined terms	11	
	11.2	<p>(20) The Activity Schedule is the <i>activity schedule</i> unless later changed in accordance with this contract.</p> <p>(22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events.</p> <p>(27) The Price for Work Done to Date is the total of the Prices for</p> <ul style="list-style-type: none"> • each group of completed activities and • each completed activity which is not in a group <p>A completed activity is one which is without Defects which would either delay or be covered by immediately following work.</p> <p>(30) The Prices are the lump sums for each of the activities on the Activity Schedule unless later changed in accordance with this contract.</p>

1.2. Measurement and Payment

- 1.2.1 The Activity Schedule provides the basis of all valuations of the Price for Work Done to Date, payments in multiple currencies, price adjustments for inflation and general progress monitoring.
- 1.2.2 The amount due at each assessment date is based on **completed activities and/or milestones** as indicated on the Activity Schedule.
- 1.2.3 The Activity Schedule work breakdown structure provided by the *Contractor* is based on the Activity Schedule if provided by the *Employer*. If an Activity Schedule is provided by the *Employer*, the activities listed by the *Employer* are the minimum activities acceptable and identify the specific activities which are required to achieve Completion. The activity schedule work breakdown structure is compiled to the satisfaction of the *Employer* with any additions and/or amendments deemed necessary.
- 1.2.4 If an Activity Schedule is provided by the *Employer*, the *Contractor's* Activity Schedule summates back to the Activity Schedule provided by the *Employer*, if not, the *Contractor's* Activity Schedule shall be in sufficient detail to monitor completion of activities related to the Accepted Programme in order that payment of completed activities may be assessed.
- 1.2.5 The short descriptions in the Activity Schedule are for identification purposes only. All work described in the Works Information is deemed included in the activities.



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- 1.2.6 The Activity Schedule is integrated with the Prices, Accepted Programme and where required the forecast rate of payment schedule.
- 1.2.7 Activities in multiple currencies are separately identified on both the Activity Schedule and the Accepted Programme for each currency.
- 1.2.8 The tendered total of the prices as stated in the Contract Data is obtained from the Activity Schedule summary. The tendered total of the prices includes for all direct and indirect costs, overheads, profits, risks, liabilities and obligations relative to the Contract.



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C2.2 Activity Schedule

Item	Description	Unit Cost (ZAR)	Qty	Total Price (ZAR)	Foreign USD	Foreign EUR	Foreign GBP
Sec 1	Hull		2				
Sec 2	Wheelhouse & fittings Accommodation & fittings		2				
Sec 3	Machinery & compressor plant		2				
Sec 4	Main engines & alternators		2				
Sec 5	Electrical installations		2				
Sec 6	Air conditioning & ventilation		2				
Sec 7	Refrigeration		2				
Sec 8	Communication & navigational aids		2				
Sec 9	Fire fighting		2				
Sec 10	Painting		2				
	Other						
	Total (Excl. VAT)						
	VAT 15%						
	Total (Incl. VAT)						

Exchange Rate as	
ZAR / EUR	
ZAR / GBP	
ZAR / USD	

For the Contractor:

For the Employer:

Signature

Name

Capacity

On behalf
ofName &
signature
of witness

Date

Rufus Lekala

Chief Harbour Master



TENDER NUMBER: TNPA/2023/08/0004/37853/RFP

DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.

C2.2.1 Payment Schedule

No.	% of Total	Milestone Description
1	10%	on the submission of approved Advance Payment Guarantee
2	2%	on submission of class drawings
3	8%	on approval of class drawings
4	5%	on Completion of the Hulls, Decks, Bulkheads vessel A
5	5%	on Completion of the Hulls, Decks, Bulkheads vessel B
6	3%	on completion of Superstructure vessel, A
7	3%	on completion of Superstructure vessel B
8	5%	on completion of installation all engines and gearbox Vessel A
9	7%	on completion of installation all systems i.e propellers, outfitting materials Vessel A
10	5%	on completion of installation all engines and gearbox Vessel B
11	7%	on completion of installation all systems i.e propellers, outfitting materials Vessel B
12	10%	Completion of FATS and HATS, prior to the start of SATs, vessel A
13	10%	Completion of FATS and HATS, prior to the start of SATs, vessel B
14	10%	due and payable on Handover of Completed Vessel A
15	10%	due and payable on Handover of Completed Vessel B

For the Contractor:

For the Employer:

Signature

Name

Capacity

On behalf
ofName &
signature
of witness

Date

Rufus Lekala

Chief Harbour Master

**Transnet SOC Ltd trading through its
operating division Transnet National
Ports Authority 30 Wellington Road
PARKTOWN, 2193**



Part C3: Scope of Works



PART C3: SCOPE OF WORK

Document reference	Title	No of page
C3.1	This cover page	1
C3.2	<i>Employer's Works Information</i>	
	<i>Contractor's Works to achieve Completion</i>	
	Total number of pages	



C3.1 EMPLOYER’S WORKS INFORMATION

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SECTION 1

1 Description of the works

1.1 EXECUTIVE OVERVIEW

The works that the shipyard Contractor is to perform is summarised hereunder.

Transnet National Ports Authority (TNPA) is the Custodian of the Republic's eight commercial ports and is currently in the process of completing the building of two workboats for the Port of Cape Town with an appointed shipyard. Significant steel fabrication work has been done but the remaining work scope, which is detailed herein, is the completion of all the steel fabrication and construction as well as all the interior outfitting, including all auxiliary components as per the current design specification by the Design Engineer (Naval Architect), sea trials and handover phase of the works. The remaining work is expected to be completed within the next 18 months and TNPA therefore requires a Professional Service Provider for construction monitoring.

The work that the preferred Service Provider is to perform entails:

Construction monitoring, Level 2 -Part Time, in accordance with the Engineering Professions Act, No. 4 of 2000, for the continued construction of two marine craft for TNPA, Port of Cape Town.

The Generic Specification for the two Workboats is as follows:

- The workboat shall be of the twin screw, fixed pitch propeller; diesel engine powered type with twin rudders and bow thruster and of all welded steel construction; and
- The detailed specifications for the craft will be supplied upon request.

1.2 EMPLOYER'S OBJECTIVES

1.2.1 The Employer's objectives are to appoint a shipyard Contractor to undertake the completion of Construction, Commissioning, Delivery, Operationalization, and handover of the two (2) Workboats to the Port of Cape Town. All the Works required shall be undertaken in accordance with Classification Societies, South African Maritime Safety Authority (SAMSA) regulations and other relevant legislation. The Contractor is required to ensure proper completion of the works in accordance with the Contract.

The Contractor is obligated to ensure the following but not limited to, and the Preferred Service Provider is required to monitor compliance thereto by the Contractor,;

- a) Strictly compliance to the Technical Specification in clause 4.2, provided by all regulatory bodies and local legislations, as well as those set by the main design Engineers.
- b) Components to be fitted are to be of the latest approved technology, in compliance with the design Engineers Technical Specifications and those in clause 4.2 .
- c) Compliance to IMO regulations and requirements.
- d) Compliance to SAMSA regulations and requirements.
- e) Compliance to Classification Societies Rules for Ship Construction regulations and requirements.



- f) Compliance to International Convention for Safety of Life at Sea regulations and requirements

1.2.2 In addition to the above, the *Contractor* is to take the following guiding principles into consideration when undertaking the *Works*:

- a) All the Works are to be done in accordance with the very best ship repair practices under SAMSA Class Register or the equivalent standard of such other recognized Classification Society.
- b) The Contractor will be required to ensure that the workboat's hull integrity and fittings comply with the relevant legislation/s.
- c) The Contractor will ensure that all drawings and designs are approved by the designated Classification Society before the commencement of the works and provide an official report to the Employer.
- d) The Contractor will be responsible for ensuring that all work to be undertaken on the workboats is certified by the relevant authority. Where design work is required, the Contractor should notify the Employer of such requirement.
- e) The Contractor will ensure that hull and superstructure are prepared in accordance with the paint specification/paint scheme as recommended and approved by the Design Engineer, in compliance with SAMSA, and the designated Classification Society before employed on the vessel, and a painted sample shall be required and tested to assess quality and performance.
- f) The Contractor will ensure that welded sections are compliant with the relevant Classification Society standard, and approved by the Design Engineer, and all Non-Destructive Testing (NDT) certificates have been passed by the Design Engineer and all relevant bodies and then handed over to the Employer for acceptance.
- g) Before commencement of the Works, the Contractor will have to provide details of how the Work will be executed (i.e. Methodology inclusive of the Quality Control Plans) to the Project Manager and also to establish the workboats' requirements and update the method statement accordingly to address their functional requirements.
- h) The Contractor will develop the cost estimate for each workboat as per the activity schedule (e.g. pricing schedule).
- i) Upon commission of the workboats, the Contractor will be required to conduct harbour and sea- trials in accordance with the Classification Society standards and handover the workboats to the Employer for acceptance.

1.3 INTERPRETATION AND TERMINOLOGY

The following abbreviations are used in this Works Information:

Abbreviation	Meaning given to the abbreviation
AIA	Authorised Inspection Authority
BBBEE	Broad Based Black Economic Empowerment
CEMP	Construction Environmental Management Plan
CD	Compact Disc
CDR	<i>Contractor</i> Documentation Register
CDS	<i>Contractor</i> Documentation Schedule
CRL	<i>Contractor</i> Review Label
CSHEO	<i>Contractor's</i> Safety, Health and Environmental Officer



CM	Construction Manager
DTI	Department of Trade and Industry
DWG	Drawings
EO	Environmental Officer
HAW	Hazard Assessment Workshop
HAZOP	Hazard and Operability Study
HSSP	Health and Safety Surveillance Plan
INC	Independent Nominated Consultant
IP	Industrial Participation
IR	Industrial Relations
IPP	Industrial Participation Policy
IPO	Industrial Participation Obligation
IPS	Industrial Participation Secretariat
IRCC	Industrial Relations Co-ordinating Committee
JSA	Job Safety Analysis
CIRP	<i>Contractor's</i> Industrial Relations Practitioner
Native	Original electronic file format of documentation
PES	Project Environmental Specifications
PHA	Preliminary Hazard Assessment
PIRM	Project Industrial Relations Manager
PIRPMP	Project Industrial Relations Policy and Management Plan
PLA	Project Labour Agreements
PSIRM	Project Site Industrial Relations Manager
PSPM	Project Safety Program Manager
PSSM	Project Site Safety Manager
ProgEM	Programme Environmental Manager
ProjEM	Project Environmental Manager
QA	Quality Assurance
R&D	Research and Development
SANS	South African National Standards
SASRIA	South African Special Risks Insurance Association
SES	Standard Environmental Specification
SHE	Safety, Health and Environment
SHEC	Safety, Health and Environment Co-ordinator
SIP	Site Induction Programme
SMP	Safety Management Plan
SSRC	Site Safety Review Committee



2 Engineering and the *Contractor's* design

2.1 EMPLOYER'S DESIGN

2.1.1 The *Employer's* design for the *works*:

- 2.1.1.1 Shall consist of previous design work by Veecraft Custom Commercial Craft, in conjunction with Naval Africa, the naval architect for ocean engineering services.
- 2.1.1.2 These designs will be handed over to *the Contractor*, so as to allow to the contractor to be fully informed before continuing with the project, which includes, any and all designs that need to be finalised, as well as a continuation of the construction which has already been completed.
- 2.1.1.3 The designs will be those provided to Veecraft through Naval Africa, along with all accompanying data packs.
- 2.1.1.4 The Employer shall supply the contractor with all the current quality data packs in order to continue with the approved design which was carried about by Naval Africa Ocean Engineering Services.
- 2.1.1.5 The Employer's specifications are in clause 4.2 of this Works information section.
- 2.1.1.6 Design drawings and data packs are in clause 5 of this Works Information section.
- 2.1.1.7 The *Employer* grants the *Contractor* a licence to use the copyright in design data presented to the *Contractor* for the purpose of the *works* (and the *Contractor's* obligation under paragraph 2.2 of the *Employer's Works* Information) ONLY.

2.2 PARTS OF THE *WORKS* WHICH THE *CONTRACTOR* IS TO DESIGN

2.2.1 The *Contractor* is to design the following parts of the *works*:

- 2.2.1.1 The *Contractor* is responsible in his design for the overall integration of the design of the *works* with the design of the *Employer* as stated under Clause 2.1 above, *Employer's* design for the following parts of the *works*:
 - 2.2.1.1.1 The Contractor shall design, supply, deliver, install, test and commission and handover complete, the construction of two workboats that will include, but is not limited to, completing a conditional assessment of the previous construction which has to date been completed on the workboat, and the completion of the workboats from where the previous construction work stopped. The Employer's drawings, designs, as well as specifications shall be adhered to through their original designers Naval Africa, and clause 4.2.
 - 2.2.1.1.2 The Contractor shall perform an analysis to determine any possibility of shortfalls from the previous construction, and shall be willing to repair or make right, to the standards and specifications set out in the Employer's design by Naval Africa. The Contractor shall provide updated designs if needed, supply, deliver, install, test and commission and handover the additional repair work and/or corrections as per Naval Africa's approved recommendations and clause 4.2.
 - 2.2.1.1.3 The Contractor shall conduct flow and pressure analysis on water/gas/fuel lines and tie in points to ensure sufficient flow and pressure requirements are met to comply to SANS and local regulations. This shall include the flow and pressure requirements on any and all piping which is to be under pressure and sealed.



- 2.2.1.1.4 The Contractor shall supply, install, test and commission and handover all control and actuation systems; MCC panels and Electrical Distribution Boards required for the mechanical Plant; and Electrical work including connections to power isolators, wiring between switchboards, unit mounted sensors, control devices, etc. and wiring between controllers and remote sensors, remote set point adjusters, and any and all other electrical systems required, etc.
- 2.2.1.1.5 The Contractor shall supply, install, test and commission and handover all engineering systems and subsystems mentioned in Veecraft's general specification through the design Engineer (Naval Africa), and clause 4.2 and associated work in complete working order ready for immediate use.
- 2.2.1.1.6 The Contractor shall supply, install, test and commission and handover all painting and corrosion protection of all plant systems, included but not limited to the entire structure, substructure and all auxiliary systems and structures, in conjunction with clause 4.2.
- 2.2.1.1.7 The Contractor shall supply, deliver, install, test and commission and handover any HVAC system according to the Employer's drawings. Which shall include, all piping and wiring and AC units complete with the temperature controls for all designated cabins and/or areas, and all the auxiliary works associated with the installation, in conjunction with clause 4.2.
- 2.2.1.1.8 The Contractor shall provide but not limited to all detailed workshop and fabrication drawings, including pipe schedules, structural layouts, life support systems, fire systems, water systems, fuel systems, etc., and the Contractor shall ensure all detailed workshop and fabrication drawings are also provided as per the specification and requirements as stated in Veecraft's general requirements and though Naval Africa's detailed design, in conjunction with clause 4.2.
- 2.2.1.1.9 The Contractor shall provide all detailed workshop and fabrication drawings of all weld maps for acceptance by the Design Engineer and the Quality Assurance team prior to the commencement of fabrication.
- 2.2.1.1.10 *The Contractor* shall provide all as-built drawings of all newly installed systems and subsystems, not limited to but including, HVAC, Fire Suppression and Detection Systems, potable water systems, electrical systems, telecoms systems, and all mechanical systems, in conjunction with clause 4.2.
- 2.2.1.1.11 The Contractor shall ensure that all drawings mentioned in the Works Information section are supplied to the Employer, in a native DWG format for use on Autocad software, as well as hard copies of signed and approved drawings.
- 2.2.1.1.12 Assessments and Certificates of Conformance of all system are to be completed by the relevant Regulatory body (e.g SAMSA). The Contractor is to ensure that this takes place before construction, to ensure that the continuation of the design is of accepted regulatory standards. If this is not the case, the systems shall be brought up to acceptable standards by The Contractor.
- 2.2.1.1.13 The Contractor shall provide a detailed testing and commissioning plan including all FAT, SAT, and sea trials, and commissioning tests and activities prior to the commencement of any testing activities.
- 2.2.1.1.14 The Contractor shall test and commission the systems in line with the guidelines as per the Works Information section as well as the Engineer's and Naval Africa's requirements, local statutory legislations and industry best practices.



- 2.2.1.1.15 The Contractor shall provide Operation and Maintenance manuals that will include, but not limited to, quality certificates and tests conducted during fabrication and installation, all FAT and SAT tests conducted, all commissioning documentation, detailed as built drawings and technical specifications of all plant and all systems, operation methodologies and information, maintenance methodologies and information and details of spares and replacement components.
- 2.2.1.1.16 The Contractor shall guarantee all installations, fabrications, and equipment for twelve (12) months after the “practical completion” date. This is the date confirmed in writing by the Project Manager.
- 2.2.1.1.17 The Contractor shall ensure that all systems, structures and subsystems and substructures are designed, supplied, delivered, removed, re-used, erected, wired, commissioned, tested, and handed over in complete working order ready for immediate use and subsequent maintenance for a period of twelve (12) months of all systems, structures, subsystems and substructures necessary for the construction described herein and as indicated on the accompanying drawings.
- 2.2.1.1.18 The words “handing over in complete working order” in the clause above shall mean not only the major items of plant and equipment covered by the Specification but also the incidental sundry components necessary for the complete execution of the work and for the proper operation of the installation.
- 2.2.1.1.19 The words “subsequent maintenance for a period of twelve months” in the clause above, shall mean that such period shall commence from the date the installations are accepted and after “practical completion” has been confirmed in writing by the Project Manager.
- 2.2.1.1.20 The words “described herein” in the clause above shall mean all sections or part of this Specification and the drawings”.
- 2.2.1.1.21 The Contractor shall inform fully himself about local site conditions such as safety requirements, access area available on site, type of ground, space available for on-site fabrication, storage, transport, loading and unloading facilities, scaffolding, tackles and tools needed, as no claims by the Contractor, which may arise from ignorance of the site conditions, shall be considered.
- 2.2.1.1.22 The Contractor shall ensure that all materials are of the quality specified and the Contractor shall furnish proof as may be requested. The Engineer is not responsible for Quality Assurance on behalf of The Contractor but shall be entitled to condemn unsatisfactory work.
- 2.2.1.1.23 The Contractor shall ensure that all materials and equipment used for the construction and installations shall be new and undamaged. The Contractor shall, if requested by the Project Manager, provide samples of materials and plant for approval. If judged necessary by the Project Manager, such samples may only be returned after the completion of the construction and installation, to ensure that the quality of the installed product is the same as that of the approved sample.
- 2.2.1.1.24 Material for which a SABS specification exists, shall be in accordance with such a specification, and shall bear the SABS mark.
- 2.2.1.1.25 All fire protection Plant used shall be from suppliers which have been certified in accordance with SABS ISO 9001 (ISO 9001) or SABS ISO 9002 (ISO 9002) for Quality assurance. Copies of certificates of approval shall be provided by the Contractor. Plant designed to BS 5446, Fire systems for residential premises, or similar other standards, are not acceptable.
- 2.2.1.1.26 Design and Drawings



- 2.2.1.1.27 The Contractor shall ensure all Plant is positioned and installed in such a way as to ensure proper access for service and maintenance.
- 2.2.1.1.28 The Contractor shall ensure that all control panels, wiring and components of the electrical installation comply with all applicable safety codes, standards and regulations. All electrical works associated with the mechanical plant shall comply with the requirements of electrical works detailed in this document.
- 2.2.1.1.29 The Contractor shall ensure that any additional designs are cost effective and energy efficient.
- 2.2.1.1.30 The Contractor shall furnish details of any Plant that is different to that specified by the Employer's Design Engineer to the Supervisor for Approval by the Design Engineer. The Contractor is prohibited from installing any item of plant without the required prior authorization from the Design Engineer, and with the Project Manager's Approval. That approval shall only apply to the selection of the type of Plant and in doing so, the Design Engineer assumes responsibility for the proper functionality of the Plant or associated systems designed by The Contractor.
- 2.2.1.1.31 The Contractor shall ensure that all design calculations and simulations shall be submitted to the Project Manager for acceptance by the Employer's Design Engineer, together with the workshop Drawings. The drawings shall be submitted in PDF as well as DWG formats for all submissions. The Contractor shall price in the works for the submission of the calculations and drawings as well as schedule the time for acceptance of any additional designs and approval of plant type (should there be any deviation from the specifications).
- 2.2.1.1.32 Alternatives and Main Offer
- 2.2.1.1.32.1 The main tender price must include for the completion of the current construction of the two workboats as specified herein, under the heading of Allowed in Tender. This does not necessarily indicate a general preference for the specified equipment but serves the purpose of ensuring that all Tenderers include for the same major equipment in their Tender Price. Generally, the specified equipment will be of the quality and in the price range, deemed appropriate for the project. All tenders, including alternatives which comply with the specification, will be considered, but not only on the basis of price. Factors such as Client preference, track record, service facilities, and spares back-up will be taken into account. Where alternatives do not comply with the specification or specified equipment in full, all deviations must be listed in detail. Incidental extra costs or savings associated with alternative proposals must be shown separately to give the full cost implications of any alternative offered. If tenders are within budget, this in itself will not exclude lower priced alternatives from favourable consideration and vice-versa.
- 2.2.1.1.32.2 Any alternatives to the specifications must be highlighted by the Contractor and shall be submitted to the Project Manager for acceptance by the Employer's Design Engineer. The submission must include the detailed specifications for the alternative design or construction method and the Contractor shall indicate where the alternative does not meet any of the minimum specified criteria in the technical specifications and drawings.
- 2.2.1.2 Unless expressly stated to form part of the design responsibility of the *Employer* as stated under 2.1 *Employer's* design above and whether or not specifically stated to form part of the design responsibility of the *Contractor* under this paragraph 2.2, all residual design responsibility and overall responsibility for the total design solution for the *works* rests with the *Contractor*.

2.3 PROCEDURE FOR SUBMISSION AND ACCEPTANCE OF *CONTRACTOR'S* DESIGN

2.3.1 The *Contractor* shall address the following procedures:

- a) The Contractor's documentation shall be issued to the Project Manager under cover of the Contractor's Transmittal Note indicating all Contract references (i.e. Project No, Contract No,



- etc.) as well as the Contractor's Project Document Number, Revision Number, Title and chronological listing of transmitted documentation. Formats for Contractor data to be submitted is dependent on the project procedure and shall be specified by the Project Manager, upon the notified request of the Contractor.
- b) The Contractor shall deliver both hard copies and electronic media copies (CD Rom) to the Project Manager either at the address stated within the Contract Data or at the Project site office.
 - c) All electronic documentation shall be submitted by the Contractor in Adobe Acrobat (PDF) and native file format.
 - d) Acceptance of documentation by the Project Manager will in no way relieve the Contractor of responsibility for the correctness of the information, or conformance with his obligation to provide the Works. This obligation rests solely with the Contractor.
 - e) After review, a copy of the original reviewed/marked-up drawing/document, with the Project Manager's consolidated comments and document status marked on the Contractor Review Label, is scanned and the copy shall be returned to the Contractor under cover of the project's Transmittal Note for revision or re-submittal as instructed.
 - f) The Contractor shall allow the Project Manager 2 weeks (unless otherwise stated and agreed) to review and respond to the Contractor's submission of their documentation, i.e. from time of receipt by the Project Manager to the time of despatch of the response. However, work shall proceed without delay in the event of the late return of the documentation by the Project Manager with prior notification in writing by the Contractor.
 - g) On receipt of the reviewed documentation, the Contractor shall make any modifications requested/marked-up and resubmit the revised documentation to the Project Manager within 2 weeks. Queries regarding comments/changes should be addressed with the Project Manager prior to re-submittal.
 - h) Any re-submittals, which have not included the changes/comments identified, will be returned to the Contractor to be corrected. The Contractor shall then re-issue the revised documentation incorporating all comments and other specified details not included in the previous issue within 2 working days of receipt of the marked-up document.

2.3.1.1 The *Contractor* undertakes design safety with the *Project Manager*, the *NEC Supervisor*, the *Employer's* Engineer's and Professional team, the *Employer's* Health and Safety Officers, the *Employer's* Environmental Officers, the *Employer's* Quality Assurance and Quality Control Officers and any other Specialists and/or Subject Matter Experts (SME) as deemed by the *Employer* necessary for the provision of the *Works*.

2.3.1.2 Documentation Submission

In undertaking the Works (including all incidental services required), the Contractor shall conform and adhere to the requirements of the Contractor Document Submittal Requirements Standard included in Annexure L (Refer DOC-STD 0001).

2.4 REVIEW AND ACCEPTANCE OF *CONTRACTOR* DOCUMENTATION

2.4.1 The *Contractor* submits such documentation as the '*Works* Information' requires to the *Project Manager* for review and acceptance.

2.5 OTHER REQUIREMENTS OF THE *CONTRACTOR'S* DESIGN

2.5.1 The *Contractor's* design complies with the following:

- a) All Statutes, Standards, Specifications, Policies, Conventions, Requirements as referenced in Section 3 and Section 4 of this document and all Statutes, Standards, Specifications, Policies, Conventions, Requirements as referenced in any Annexures thereto.



2.6 USE OF *CONTRACTOR'S* DESIGN

2.6.1 The *Contractor* grants the *Employer* a licence to use the copyright in all design data presented to the *Employer* in relation to the *works* [for any purpose in connection with the construction, re-construction, refurbishment, repair, maintenance and extension of the *works* with such licence being capable of transfer to any third party without the consent of the *Contractor*.

2.6.2 The *Contractor* vests in the *Employer* full title guarantee in the intellectual property and copyright in the design data created in relation to the *works* as follows:

- a) All and any equipment, formwork, and temporary work associated with the provision of the Works.

2.7 DESIGN OF EQUIPMENT

2.7.1 The *Contractor* submits his design details for the following categories of his proposed principal Equipment to the *Project Manager* for his information only:

- a) Equipment designed for the lifting of personnel to access any areas necessary to provide the Works which are not at ground level.
- b) Equipment designed for the lowering of personnel to access any areas necessary to provide the Works which are below ground level.

2.7.2 The following principal Equipment categories deployed for the *Contractor* to provide the *Works* require its design to be accepted by the *Project Manager* under ECC Clause 23.1:

- a) Specialist Equipment required to Provide the Works
- b) Rigging platforms and specialised rigging Equipment that may be required by the Contractor to Provide the Works.
- c) Launching platforms and incremental launching equipment that may be required by the Contractor to Provide the Works
- d) Temporary access platforms, ladders, walkways, scaffolds, and any other temporary structures required to provide the Works.



2.8 EQUIPMENT REQUIRED TO BE INCLUDED IN THE *WORKS*

2.8.1 None

2.9 AS-BUILT DRAWINGS, OPERATING MANUALS AND MAINTENANCE SCHEDULES

2.9.1 The *Contractor* provides the following:

2.9.1.1 As-Built/Final Documentation

2.9.1.2 In undertaking the Works (including all incidental services required), the Contractor shall conform and adhere to the requirements of the Contractor Document Submittal Requirements Standard included in Annexure L (Refer DOC-STD-0001 Rev 03).

2.9.1.3 Installation, Maintenance and Operating Manuals and Data Books

2.9.1.4 The Contractor prepares three (3) marked up hard copies of the latest revision of the Employer documents/drawings to represent the As-Built/Final status.

2.9.1.5 The mark-ups shall be in RED pencil or pen and be complete and accurate. The Contractor submits same to the Project Manager under cover of a Contractor's Transmittal Note.

2.9.1.6 The Contractor provides manuals in an A4 hard covered, red, grease and waterproof binder, using 2 ring type binders. The manuals are well indexed and user friendly and include a summarized Table of Contents.

2.9.1.7 Drawings and charts larger than A4 are folded and those greater than A3 are enclosed in an A4 plastic pocket of adequate strength.

2.9.1.8 The Contractor submits the draft Table of Contents to the Project Manager for acceptance prior to the compilation and official submittal of the manuals.

2.9.1.9 The originals of all brochures shall be issued to the Project Manager. When a general brochure is applicable to a range of equipment, then the specific item, catalogue number or model number shall be stated, which is best achieved by introducing a separate index page, which cross-references the specific item to a tag number.

2.9.1.10 The address, phone numbers, fax numbers and reference numbers of all Sub-Contractors is provided.

2.9.1.11 Where manuals include drawings that still need to be revised to 'As-Built' status, and such manuals are required prior to 'As-Built' status, the manual will not be considered to be in its final form until the 'As-Built' version of each such drawing has been incorporated. The required number of copies of the manual(s) shall be as specified by the Project Manager and submitted per type or model number of equipment included in the contract, or as specified by the Project Manager. A typical example of what the binder/file(s) shall be marked with on the spine and the front cover is as follows:

2.9.1.11.1 Project No./Name

2.9.1.11.2 Manual Title, e.g., Installation, Maintenance and Operating Manual

2.9.1.11.3 FBS No. and Title

2.9.1.11.4 Manual Numbering (e.g., Volume 1 of 2, etc.)

2.9.1.11.5 Contract Number



2.9.1.11.6 Contractor Name

2.9.1.11.7 Unless otherwise stated in the CDS, the required number of copies of all As-Built/Final/Data Packs shall be:

2.9.1.11.8 3 x hard copies (Full size) including 1 x copy to be laminated in plastic enclosing 2 pages back-to-back for use by maintenance staff

2.9.1.11.9 4 x CD Roms with Adobe Acrobat (.pdf) and Native formats

2.9.2 As-Built/Final Documentation

2.9.2.1 The *Contractor* shall provide all the as-built drawings

2.9.2.2 submits final documentation to the *Project Manager* before Completion. This final documentation is documentation for which no further review is required.

2.9.2.3 The *Contractor* submits documentation as the 'Works Information' requires to the Project Manager for review and acceptance.

2.9.2.4 In undertaking the *Works* (including all incidental services required), the *Contractor* shall conform and adhere to the requirements of the '*Contractor Document Submittal Requirements*' Standard included in Annexure L (Refer DOC-STD-0001 Rev 03)

2.9.3 Installation, Maintenance and Operating Manuals and Data Books

In undertaking the *Works* (including all incidental services required), the *Contractor* shall conform and adhere to the requirements of '*Contractor Document Submittal Requirements*' Standard included in Annexure L (DOC NUMBER).

3 Construction

3.1 TEMPORARY WORKS, SITE SERVICES & CONSTRUCTION CONSTRAINTS

3.1.1 *Employer's* Site entry and security control, permits, and Site regulations

3.1.2 Health and safety facilities on Site

3.1.3 The *Contractor* complies with the requirements stated under paragraph 2.3 of C3.1 *Employer's* Works Information.

3.1.4 The *Contractor* complies with the CEMP, SES and PES in the construction of the *works*,

3.1.5 Publicity and progress photographs

To be issued monthly on a progress report.

3.1.6 The *Contractor* keeps daily records of his Equipment used on Site and the Working Areas (distinguishing between owned and hired Equipment) with access to such daily records available for inspection by the *Project Manager* at all reasonable times.

3.1.7 The *Employer* provides the following Equipment on the Site for the *Contractor's* use:

No equipment will be supplied.



3.1.8 Wherever the *Employer* provides facilities (including, *inter alia*, temporary power, water, waste disposal, telecommunications etc) for the *Contractor's* use within the Working Areas and the *Contractor* adapts such facilities for use, then the *Contractor* makes good and provides full reinstatement to the land (including all apparatus of the *Employer* and Others in, on or under the land) and surrounding areas to its original standard upon dismantling of such facilities and hand-back to the *Employer*.

3.1.9 Facilities provided by the *Contractor*:

None

3.2 COMPLETION, TESTING, COMMISSIONING AND CORRECTION OF DEFECTS

3.2.1 The *work* to be done by the Completion Date

On or before the Completion Date the *Contractor* shall have done everything required to Provide the Works including the work listed below which is to be done before the Completion Date and in any case before the dates stated. The Project Manager cannot certify Completion until all the work listed below has been done and is also free of Defects, which would have, in his opinion, prevented the Employer from using the works and Others from doing their work.

3.2.2 The *Contractor* ensures that the documentation as described under paragraph 3.8 of the *Works* Information is presented to the *Project Manager* before Completion.

3.2.3 The *Contractor* ensures that the *Project Manager* has a full and accurate dossier of As-built documents that represent the [state combination of Mechanical, Electrical, Instrumentation, General Layout as appropriate] status of the completed *works* (to include Plant within the *works*) to present to the *Employer*.

3.2.4 The *Contractor* ensures that the *Project Manager* has a full and accurate dossier of [state Maintenance and Operating Manuals as appropriate] at the earlier of take-over or Completion.

3.2.5 Where the *Contractor* has presented [state Maintenance and Operating Manuals as appropriate] to the *Project Manager* at take-over, the *Contractor* modifies and updates As-built documents as necessary prior to Completion.

3.2.6 Access given by the *Employer* for correction of Defects.

3.2.7 The *Contractor* complies with the following constraints and procedures of the *Employer* where the *Project Manager* arranges access for the *Contractor* after Completion:

3.2.8 Performance tests after Completion

All relevant test to be performed prior handover of project.

3.2.9 The *Contractor* performs the following performance tests after Completion of the *works*:

All relevant test to be performed prior handover of project.



3.2.10 Training and technology transfer

3.2.11 The *Contractor* facilitates the requirements for training *workshops* after Completion for the *works* in use:

3.2.12 The *Contractor* arranges for the technology transfer to the *Employer* after Completion for the *works* in use:

3.2.13 Operational maintenance after Completion

3.2.14 The *Contractor* performs the following operational maintenance in relation to the *works* after Completion:

4 Plant and Materials Standards and Workmanship

4.1.1 Where the Association of South African Quantity Surveyors Model Preamble for Trades 1999 are used within the Works Information, the following interpretations and meanings shall apply:

4.1.2 In case of any conflict in interpretation, ambiguity, or discrepancy between any Model Preamble for Trades 1999 (whether standard or written as a particular project specification) contained in the *Works* Information and the *conditions of contract*, the *conditions of contract* take precedence within the ECC Contract.

4.1.3 In case of any conflict in interpretation, ambiguity or discrepancy between any Model Preamble for Trades 1999 (whether standard or written as a particular project specification) contained in this paragraph 4.2 of C3.1 *Employer's* Works Information and specific statements contained elsewhere in C3.1 *Employer's* Works Information, the specific statements contained elsewhere shall prevail, without prejudice to the *Project Manager's* express duty to resolve any ambiguity or inconsistency in the *Works* Information under ECC Clause 17.1.

4.1.4 Within the Model Preambles for Trades 1999, the following amendments and interpretations shall apply:

Where the word or expression "Principal Agent" is used, read "*Project Manager*" or "*Supervisor*" as the context requires.

Where the word or expression "*Contractor*" is used, read "*Contractor*".

Where the word or expression "Engineer" is used, read "*Project Manager*" or "*Supervisor*" as the context requires.

Where the Model Preambles for Trades 1999 mention "rates" for measured work and any contractual statements relating to payment, all such statements shall be discounted, with the ECC *conditions of contract* taking precedence.

4.1.5 Within the Model Preambles for Trades 1999, A. GENERAL, the following amendments and interpretations shall apply:

Where the word or expression "bills of quantities" is used, this shall be discounted for the purposes of the *Works* Information. The ECC Contract Data - Part One states the main option to apply within the ECC Contract between the Parties.

4.1.6 Within the Model Preambles for Trades 1999, B. ALTERATIONS, B.2 MATERIALS FROM THE ALTERATIONS, CREDIT, ETC and C. EARTHWORKS, C1.4 Materials from demolitions shall not apply. C3.1 *Employer's* Works Information paragraph 3.1.6 states



details of the *Contractor's* title (if any) to Materials arising from excavations and/or demolitions and how such Materials are either to be disposed of or re-used in the *works*.

- 4.1.7 Within the Model Preamble for Trades 1999 Q. PLUMBING AND DRAINAGE, Q.24 TESTS shall be deemed to be included within paragraph 3.2.1 of C3.1 *Employer's Works Information*.
- 4.1.8 Within the Model Preamble for Trades 1999 U. EXTERNAL WORKS, U.3.8 Process control tests shall be deemed to be included within paragraph 3.2.1 of C3.1 *Employer's Works Information*.
- 4.1.9 The principles, meanings and interpretation stated and established within paragraphs 6.2.1 to 6.2.8 with respect to the Model Preambles for Trades 1999 equally apply to the other Model Preambles for Trades 1999 references [state particulars of Model Preambles used] used within this paragraph 4.2 of C3.1 *Employer's Works Information*.

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4.2.1 GENERAL REQUIREMENTS

- 4.2.1.1 This specification covers the continuation of TNPA project, which includes the final construction and equipment fitment of two twin screw, diesel powered workboats with fixed pitch propellers in kort nozzles and twin rudders.
- 4.2.1.2 The vessels are being built in accordance with Bureau Veritas Class. All approved drawings to date, for the project was approved by Bureau Veritas. Arrangement with Bureau Veritas must be made for access to their portal for the approved drawings.
- 4.2.1.3 When considering hull scantlings and equipment the thickness of plating, framing, stringers, floors, keelson, etc., is to be adequate for normal harbour duties, as specified or to Classification society's requirements, whichever is the greater.
- 4.2.1.3.1 It should be noted that, in addition to normal workboat duties, the vessel will also be used for shipping (tug) duties, and stand-by pilot vessel.
- 4.2.1.3.2 Servicing and transport of anchor cables and off-shore mooring buoys which will be launched over the stern.
- 4.2.1.4 The vessels and all its equipment are to meet all South African Department of Transport, marine Division, requirements for a Class IX vessel.
- 4.2.1.5 It will be the responsibility of the contractor to advise the Department of Transport, marine Division, of the intention to continue the build of the two workboats. The requirements of the Department shall be communicated to the contractor for the completion of the project at the tendering stage.
- 4.2.1.6 All costs in connection with certificates, registrations, surveys, South African Department of Transport, Marine Division and the Classification Society, are to be borne by the contractor.
- 4.2.1.7 Metric Standards are to be used throughout for construction and drawings. All instruments and gauges are to be graduated in S.I. units.
- 4.2.1.8 Tenders from builders who are inexperienced in shipbuilding of specialized vessels may not be considered unless such tenders are submitted jointly with a firm of specialists. Tenders are to substantiate their claims as experienced ship builders.
- 4.2.1.8.1 In the case of inexperienced Tenderers it is required that the division of financial responsibility between tenderer and the specialist firm for the satisfactory completion of the contract, be stated in a covering letter accompanying the tender offer.
- 4.2.1.9 On appointment the successful bidder shall review all existing drawings and ensure that they meet the Classification Society standards/rules and where there are deviations, they must propose the changes to the Employer for consideration and approval. The outline drawings are to include a general arrangement, profile, midship section, plan and end views, forward and aft. (See Annexure A)
- 4.2.1.9.1 Frame spacings and all scantlings are to be clearly indicated.
- 4.2.1.9.2 Full particulars of all machinery and equipment are also to be furnished and data sheets completed in all respects

- 4.2.1.10 The tenderer must indicate, paragraph by paragraph, either that his tender complies in every respect with this specification, in which case he need only state "will comply" or, if not, precisely how it differs from the specification. Alternative offers may be submitted but all divergences from this specification must be clearly stated. A broad statement that the equipment is in accordance with these requirements may preclude a tender from consideration.
- 4.2.1.11 The Contractor shall submit all working drawings to the Senior marine Engineer for approval prior to manufacture or installation.
- 4.2.1.11.1 It shall be arranged that the first of the working drawings be submitted for approval as soon as possible, so that construction can commence with immediate effect.
- 4.2.1.11.2 To enable the construction to proceed uninterrupted, subsequent working drawings are to be submitted systematically and in sufficient time to permit full scrutiny, approval and return to the contractor.
- 4.2.1.11.3 Two prints of each detailed working drawing shall be submitted to the Senior Marine Engineer or his deputy for approval.
- 4.2.1.11.3.1 Where the approval of the classification society is required; this shall be obtained prior to submission.
- 4.2.1.11.3.2 After approval one print will be returned to the contractor.
- 4.2.1.11.4 All prints are to be dated and signature obtained on delivery and return.
- 4.2.1.11.5 To facilitate checking, when submitting drawings for approval, arrangement drawings must be submitted with or before detailed working drawings.
- 4.2.1.12 In addition to the drawing for approval, the contractor shall supply two sets of drawings in PDF format on CD's and two sets of paper prints of all general arrangements and working drawing. They are to show full details of the vessel and all machinery and equipment as actually constructed, they are to be property indexed and packed in box files of good quality.
- 4.2.1.12.1 The electrical drawings shall be complete in every respect and show ratings where applicable.
- 4.2.1.12.2 The drawings shall include docking plan, shell expansion, lines plan, hydrostatic curves, stability data, displacement data, tank capacities, trials data, pumping, piping system schematics, electrical, safety plan.
- 4.2.1.12.3 In addition, a copy of the pumping and safety plans also the calibrated capacities of the bunkers, fresh water and ballast tanks, each to a large scale, are to be framed and hung in suitable positions on the vessel.
- 4.2.1.12.4 As working progresses and when required, the contractor shall apply for the following drawings if required:
- 4.2.1.12.4.1 Drawing title block (this to appear on all drawings including drawings for approval).
- 4.2.1.12.4.2 All markings to be according to company corporate identity.
- 4.2.1.12.4.3 Pipe and valve colour code to be done according to marine standard colour coding.

- 4.2.1.12.5 All lettering and figures on drawings shall be easily legible. The wording shall be in English and all dimensions shall be in metric units. The drawings shall comply to the I.S.O. and be within the limit A4 to A0. The title block (see clause 4.2.1.12.4.1) shall appear in the lower right-hand corner and numbering requirements will be supplied when the drawing title block is applied for.
- 4.2.1.13 The contractor shall supply three sets of the following. Each set shall contain original copies of:
- 4.2.1.13.1 Operating instruction manuals for all equipment fitted.
- 4.2.1.13.2 Spare parts catalogues for all equipment fitted.
- 4.2.1.13.3 Workshop manuals for main engines and generators.
- 4.2.1.13.4 Booklet containing trials and performance data.
- 4.2.1.13.5 Lubrication schedule compiled by recognized oil company. (See clause 4.2.1.14)
- 4.2.1.13.6 Booklet of inclining tests and stability data (duly approved by South African Department of Transport, marine Division). (SAMSA)
- 4.2.1.13.7 Booklet containing all machinery and equipment, technical data, such as make, mode, kW rating, serial number, output, and in the case of pumps the power absorbed as well as the capacity. Local agents' name and address shall also be supplied for all items of equipment.
- 4.2.1.13.8 Two folders, one containing the originals and the other containing copies of the following certificates:
- 4.2.1.13.8.1 Builders
- 4.2.1.13.8.2 Department of Transport of South African Maritime Safety Authority (SAMSA)
- 4.2.1.13.8.3 Classification Society
- 4.2.1.13.8.4 Hull (all equipment)
- 4.2.1.13.8.5 Engineering (all equipment)
- 4.2.1.13.9 All manuals mentioned in clause 4.2.1.13 (and its sub-clauses) and CD's mentioned in clause 4.2.1.12 (and its sub-clauses) shall be delivered to the Senior Marine Engineer, Transnet National Ports Authority, on a date at least fourteen days prior to the owner's trials and acceptance date. Each set of manuals shall be in box files of good quality, be indexed in a proper and orderly manner and be complete. Drawings shall be folded and stored in box files of good quality.
- 4.2.1.13.9.1 A penalty of 0.1% of the contract price for every month or part thereof for non-delivery of documentation after the acceptance date, will be imposed.
- 4.2.1.14 Lubricants shall be selected from the recommended list of approved lubricants in the supplied machinery manual.
- 4.2.1.15 Spares required by the Classification Society are to be included in the tender price and a detailed list of these spares is to be furnished.

- 4.2.1.16 During construction the contractor is to afford full inspection facilities to the Senior marine Engineer or his deputy.
- 4.2.1.17 The tenderer is to state the date of delivery of the vessel. Maximum delivery period after award of tender is to be six months or less as the vessel is urgently required to be put into service.
- 4.2.1.18 The delivery shall be at the contractor's risk (See also "Marine Insurance" under Special conditions of Tender).
- 4.2.1.19 It will be the contractor's responsibility to arrange adequate insurance cover (full replacement value) for any loss during the construction period and until acceptance of the vessel by Transnet national Ports Authority.
- 4.2.1.20 All the necessary labels throughout the vessel shall be of brass, engraved in English and be secured by approved mechanical means.
- 4.2.1.21 Notwithstanding any errors, omissions or inconsistencies in the specification or drawings, it will be the contractor's responsibility to deliver the vessel complete in every respect, to Transnet National Ports Authority satisfaction and meeting all the requirements of the South African Department of Transport, marine Division, and the Classification Society.
- 4.2.1.22 The cost of any work material or equipment not covered by the specification or drawings, but considered necessary for the satisfactory completion and operation of the vessel is to be borne by the contractor and be included in his tender price.
- 4.2.1.23 Prior to advising Transnet national Ports Authority that the workboat is ready for acceptance trials at Cape Town, the contractor shall carry out his own trials to be satisfied that the vessel fully meets the requirements of the specification and is complete in all respects.
- 4.2.1.23.1 Acceptance trials of the workboat and all its equipment (including manoeuvring, speed, ahead and astern bollard pull trials) shall be thereafter carried out in the presence of Transnet National Ports Authority's Senior Marine Engineer or his deputy and other officers deputed by Transnet National Ports Authority for this purpose.
- 4.2.1.23.2 Transnet National Ports Authority will not accept delivery until such time as these trials and an underwater inspection in dock have been completed to the satisfaction of the Senior marine Engineer.
- 4.2.1.23.2.1 Availability of the dock will be arranged by Transnet national Ports Authority and the dock charges for the first 24 hours will be to the account of Transnet national Ports Authority.
- 4.2.1.23.3 Transnet National Ports Authority will issue a signed acceptance certificate and arrange to take delivery of the vessel.
- 4.2.1.23.4 The contractor shall supply all crew, fuel, consumables, and labour until the workboat has been accepted by Transnet National Port Authority unless otherwise agreed to in writing.
- 4.2.1.24 Tenderers must furnish a guarantee that the specified speed and bollard pull, both ahead and astern, will be obtained at the continuous rated power as well as the rated speed of the engines Steering and manoeuvring characteristics shall also be of an acceptable standard for this type of vessel.
- 4.2.1.24.1 If the vessel does not attain:
- (a) A free running speed of 10 knots

(b) A sustained ahead bollard pull of not less than 170 kN

(c) (c) A sustained astern bollard pull of not less than 115 kN

A penalty of 1,5% of the contact price for each knot or part thereof in speed or each 10 kN or part thereof in bollard pull in either direction, below the specification, may be imposed. Such penalty shall be recoverable from monies due to the contractor.

- 4.2.1.24.2 If the speed or bollard pull is less than that specified, Transnet National Ports Authority may, at their discretion, refuse acceptance of the vessel.
- 4.2.1.25 The late delivery clause as detailed will be strictly applied. No limit to the maximum penalty will be considered.
- 4.2.1.26 In addition to the Classification society's requirements, fifteen radiographic examinations for welded seams as indicated by the Senior Marine Engineer or his deputy are to be carried out and assessed by an approved firm of specialists and be included in the tender price.
- 4.2.1.27 The vessel and all its equipment shall be designed for marine application and be suitable for continual working in a climate where the ambient temperature may vary from 0 °C to + 44 °C and the relative humidity is 95%.
- 4.2.1.28 The tenderer is free to offer any changes to this specification as long as it is to the benefit of Transnet National Ports Authority and they comply in full to the Classification Society requirements as well as the South African Department of Transport requirements for this class of vessel.
- 4.2.1.29 Transnet revised procurement policy
- 4.2.1.29.1 Transnet's new policy ensures that focus is placed on the development, promotion, and support of the previously disadvantaged.
- 4.2.1.29.2 Previously disadvantaged includes small, medium, and micro enterprises as well as established businesses within those communities.
- 4.2.1.29.3 To this end Tenderers are to furnish details of work that will be allocated to these groups as called for in the schedule of work allocated to the previously disadvantaged.
- 4.2.1.30 All additional equipment required for the continuation of the project must have local agents and spares readily available in South Africa.

4.2.2 GENERAL

4.2.2.1 GENERAL DESCRIPTION

4.2.2.1.1 The original scope for the workboat is, twin screw, fixed pitch propeller in kort nozzle, diesel engine powered type with twin rudders and of all welded steel construction.

4.2.2.1.1.1 It shall be capable of a bollard pull of not less than 170 kN ahead and not less than 115 kN astern, when operating at the continuous rated power of the engines. The free running speed at the same engine power shall be not less than 10 knots.

4.2.2.1.2 The layout of deck machinery and equipment is to be arranged to ensure maximum efficiency of operation and safety when working shipping.

4.2.2.1.3 Special attention is to be given to tumble home of superstructure to prevent possible contact when handling ships with accentuated bow flare. The tumble home shall be not less than 20°.

4.2.2.1.4 Exhausts are to be fitted as per the approved drawing, aft of wheelhouse, within a funnel.

4.2.2.1.5 In addition to working outside harbour limits, the vessel will be required to handle shipping in confined water spaces and good manoeuvring qualities are of prime importance. The Tenderer must indicate his intentions on this aspect.

4.2.2.1.6 The after deck is to be kept clean in order to handle the anchor cables and offshore mooring buoys.

4.2.2.1.6.1 Stability calculations and deck strength must allow for the following:

- (a) It will be required to stow 2 shackles of 50 mm stud link cable along each side of the vessel.
- (b) The cables and buoys will be hauled up by the capstan over the stern ramp.
- (c) (c) The mass of each shackle of cable is about 1.5 ton and on occasions only one side of the vessel will be loaded.

4.2.2.1.6.2 The mass and dimensions of the pear shaped buoys are as follows:

- (a) Length 4700 mm
- (b) Diameter 2360 mm (max)
- (c) Mass 2.0 ton
- (d) C.G. above deck 1000 mm

4.2.2.2 DIMENSIONS OF ORIGINAL DESIGN

LENGTH O.A.:	19.3m (including bow fender)
BREADTH MOULDED:	7.25m
DEPTH AT SIDES MOULDED	3.8m 2.4m at sides
DRAUGHT (APPROX.):	2.4m
DRAFT AFT approx:	2.9m under prop
BOLLAD PULL:	15 TONNE
PROPULSION:	2 x740 kWATT 1800RPM

GEARBOX:	Reduction 5.952:1 with troll function
SPEED:	10.0 KNOTS
FRAME SPACING:	0.5 OR 0.6 M
WEB FRAME SPACING:	2.5 OR 2.4 M

4.2.2.3 TANK CAPACITIES

The following approximate figures applied for the original scope:

FUEL OIL:	24 m3	Refer Section 2.27.1
FRESH WATER:	2,38 m3	Refer Section 2.28.0
DIRTY OIL:	0,5 m3	Section not Specified
GREY WATER:	0,7 m3	Refer Section 2.30.0
SEWAGE:	0,5 m3	Section not Specified
SLUDGE TANK:	0,5 m3	Section not Specified
BILGE WATER:	1,7 m3	Section not Specified
LUB OIL STORAGE:	0,25 m3	Refer Section 2.29.0
FUEL DAILY SERVICE	2.00 m3	Refer Section 2.27.2

FOR DETAILS SEE CLAUSE 4.2.3

A Burea Veritas approved Tank plan will be utilized for the completion of the tank construction and inspection

4.2.3 HULL

On the project to date, Vessel 1 and vessel 2, the hull construction has been completed. All sections of the hull need to be re-inspected for actual completion. All welds on framework and side plating need to be tested as per Class requirements.

4.2.3.1 SCANTLINGS

Full scantlings, i.e. thickness of plating, framing, stringers, floors, keelsons, gussets, beams, etc. are to be inspected for completion as per Class requirements vessel. Tenderer to only quote on work needing to be completed. A full description of work to be submitted in tender for scantling work to be completed.

4.2.3.2 STEM

Stem to be inspected for completion. Ensure all strengthened areas are completed as per Class requirements. Tenderer to only quote on work needing to be completed. A full description of work to be submitted in tender for stem work to be completed. Please ensure stem is strengthened to withstand the stresses imposed by the full power of the engines and normal shipping duties.

4.2.3.3 AFT DECK

Aft deck is to be inspected for completion. Factors to be taken into consideration upon inspection.

4.2.3.3.1 Specific deck loading to be able to carry at least the load specified in clause 4.2.2.1.6.1

4.2.3.3.2 The aft deck is to be kept clear to allow for working chains and buoys.

4.2.3.3.3 Hatches to be placed next to bulwarks.

4.2.3.4 FRAMING

All completed framing on vessels to be inspected as per the approved Bureau Veritas approved drawing. Framing is to be transverse, of bulb plate or angle bar and on centres not exceeding 1800mm. Frame spacing longitudinal to be at 500mm positions.

4.2.3.4.1 At least five deep frames are to be provided along each side of the vessel. They are to be as evenly spaced as possible, two in the engine compartment, two forward and one aft.

4.2.3.4.2 Deep beams are to be provided in way of the deep frames.

4.2.3.4.3 All deep frames and beams shall be of the "web" type with capping strip of adequate dimensions.

4.2.3.4.4 All ship's frames, deck beams, beam knees, floors, bulkheads, bulkhead stiffeners, ship side bulkhead margins and machinery seating are to be attached by double continuous welds. A full description of work to be submitted in tender for framing work to be completed.

4.2.3.5 SHELL PLATING

All completed shell plating work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.5.1 The shell plating shall be of 10mm plate.

4.2.3.5.2 All longitudinal and vertical seams shall be butt welded to form a flush surface. A full description of work to be submitted in tender for shell plating work to be completed.

4.2.3.6 MAIN DECK

All completed main deck work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.6.1 The deck shall have a camber of not less than 50 mm.

4.2.3.6.2 All seams shall be butt welded to form a flush surface.

4.2.3.6.2.1 Welds need not be ground off flush but are to be smooth and beads shall not protrude more than 3 mm above plates.

4.2.3.6.3 The plating shall be covered with approved non-skid paint. (For details see clause 4.2.12 – Painting).

4.2.3.6.4 The deck shall be of 6 mm plate.

4.2.3.6.5 All openings in deck are to be compensated by means of insert plate of greater thickness. All corners in openings are to be well radiused.

4.2.3.6.6 The deck is to be stiffened as necessary in way of bollards, deck machinery and deck fittings subjected to strain.

4.2.3.6.7 The deck shall be illuminated for night working.

4.2.3.6.7.1 The lights, port and starboard sides controlled by separate switches, shall be located in the wheelhouse. (See also clause 4.2.4.3.21.2).

4.2.3.6.8 The aft deck shall have a suitable opening for the removal of main engines.

A full description of work to be submitted in tender for main deck work to be completed.

4.2.3.7 WATERTIGHT BULKHEADS

All completed watertight bulkheads work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.7.1 At least three watertight bulkheads shall be provided.

4.2.3.7.2 All watertight bulkheads shall be adequately stiffened with flat bar stiffeners gusseted at either end.

4.2.3.7.3 The bulkheads shall be of 6 mm plate.

4.2.3.7.4 A gas tight door to be fitted to engine room entrance.

A full description of work to be submitted in tender for watertight bulkheads work to be completed.

4.2.3.8 BULWARKS (GENERAL)

All completed bulwarks(general) work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.8.1 Bulwarks, raised at the bow and with suitable tumble home are to be fitted.
- 4.2.3.8.2 The bulwark rail shall be of 100 mm x 10 mm bulb plate.
- 4.2.3.8.3 Bulwark stays are to be fitted on alternate frames along the bulwarks entire length.
- 4.2.3.8.4 Compensating plates shall be fitted in way of all mooring pipes.
- 4.2.3.8.5 Ample freeing ports are to be provided. They are to be positioned as near to deck level as possible.
- 4.2.3.8.6 One hinged opening door is to be positioned on each side on the main deck.

A full description of work to be submitted in tender for Bulwarks (general) work to be completed.

4.2.3.9 TRANSOM

- 4.2.3.9.1 The contractor to inspect if transom plating is 10 mm thick.

4.2.3.10 BULWARKS

All completed bulwarks work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.10.1 Entire deck to be encircled by bulwarks, except for 3 m wide opening in the stern to handle the anchor chains and buoys.
- 4.2.3.10.2 The ramp is to be of sufficient thickness to allow for wear of sliding anchor chains and buoys and be of sufficient depth to stop fouling of nozzle or rudder.
- 4.2.3.10.3 The opening in the aft bulwark is to be made closable by two doors.
- 4.2.3.10.4 The opening when closed is to be such as to prevent the tow wire from chafing. This could be done by means of a removable curved beam, of sufficient strength with vertical support.
- 4.2.3.10.5 The sides of the openings to be protected to stop chafe if chain is pulled inboard at an angle.

A full description of work to be submitted in tender for framing work to be completed.

4.2.3.11 SHEERSTRAKE

- 4.2.3.11.1 The contractor to inspect if sheerstrake is 350 mm x 20 mm.

4.2.3.12 INSERT PLATES

The following is to be inspected.

4.2.3.12.1 All compensating plates in shell, decks and bulwarks are to be of the heavy insert type, doubling plates are not to be used.

4.2.3.12.2 Insert plates shall be well chamfered to lead onto the thinner plate.

A full description of work to be submitted in tender for insert plates work to be completed.

4.2.3.13 SKEG

The skeg fitted on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.13.1 The vessel shall be fitted with a skeg of suitable design and strength, if stability calculations prove there is a need for it.

4.2.3.13.2 The skeg shall be of heavy single skin design and incorporate lightening holes to assist manoeuvring.

A full description of work to be submitted in tender for skeg work to be completed.

4.2.3.14 FENDERS (GENERAL)

All completed fenders work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.14.1 A steel fender of box section approximately 150 mm wide by 150 mm deep of 10 mm steel plate is to extend all-round the vessel at the gunwale. The fender is to be increased at the bow and at six positions on either side of the vessel to form fender chocks. The outer corners of the fender are to be rounded off to not less than 20 mm radius.

4.2.3.14.1.1 Fender pads to be kept clear of area around pilot boarding platforms to prevent pilot ladders from being caught.

4.2.3.14.2 The transom fender arrangement must make allowance for or to act as a skid to launch and recover buoys and chains.

4.2.3.14.2.1 It shall be curved and of adequate diameters so as to prevent contact with the hull or fouling of the buoys or chains when being retrieved, on the nozzle and rudders.

4.2.3.14.2.2 A hollow horizontal sausage fender shall be secured above the blocks.

4.2.3.14.2.3 It shall be secured to the steel fendering in an approved manner.

4.2.3.14.2.4 Full details including sizes of the proposed fendering shall be submitted at the tendering stage.

4.2.3.14.3 Drain and filling plugs are to be fitted to the steel belting and the internal surfaces treated in accordance with the "Painting" clause 4.2.12 11 of this specification.

4.2.3.15 SUPERSTRUCTURE

4.2.3.15.1 Superstructure plating to be inspected as per the approved Bureau Veritals drawing. Inspections to be done on full superstructure. A full description of work to be submitted in tender for superstructure to be completed.

4.2.3.16 LIFTING LUGS

All lifting lugs to be inspected as per the approved Bureau Veritas approved drawing.

4.2.3.16.1 Four lifting lugs to be provided to lift craft out of the water for dry docking purposes. A full description of work to be submitted in tender for lifting lugs work to be completed.

4.2.3.17 BOLLARDS

Bollard installation to be inspected for correct positioning as per approved drawing. Tenderer to quote on any repositioning of misaligned bollards. Below criteria to be met for the installations of the bollards

- 4.2.3.17.1 Double bollards to be fitted fwd deck and aft deck with single bollards amid ship.
- 4.2.3.17.2 The bollards are to be used for lashing up to “dead ships” and are to be suitable for this purpose.
- 4.2.3.17.3 Double pole beam towing bit to be fitted on the deck.
- 4.2.3.17.4 Double pole cross beam towing bollard to be fitted on the bow. Can be of the “H” or “A” design.
- 4.2.3.18 CAPSTAN
 - 4.2.3.18.1 One hydraulically operated cable and warping capstan shall be mounted on the fore deck as near to the centre of the vessel as possible.
 - 4.2.3.18.1.1 The positioning of the capstan shall be carefully selected to provide an adequate lead on either side of the accommodation
 - 4.2.3.18.2 One hydraulically operated capstan to be fitted to the aft deck
 - 4.2.3.18.3 The speed and pull of the cable lifters is to meet the Classification Society’s requirements.
 - 4.2.3.18.4 All strengthening shall be below deck so as to free deck of any water traps.
- 4.2.3.19 ANCHOR RECESS
 - 4.2.3.19.1 The anchor shall be stowed in a recess on the starboard bow.
 - 4.2.3.19.2 The anchor shall be under flush when stowed.
- 4.2.3.20 ANCHOR AND CABLE
 - 4.2.3.20.1 One stockless with approved cable shall be fitted on the starboard bow
 - 4.2.3.20.2 The anchor and cable shall comply with the Classification Society rules.
 - 4.2.3.20.3 The cable must be at least five shackles in length.
- 4.2.3.21 CABLE STOPPERS
 - 4.2.3.21.1 A lever type stopper shall be fitted on the foredeck for securing the anchor cable.
- 4.2.3.22 CABLE COVERS
 - 4.2.3.22.1 A suitable removable mild steel plate cover shall be fitted around the cable at spurling pipe on the main deck
- 4.2.3.23 ANCHOR HAWSE PIPE
 - Hawse pipes to be inspected for completion.
 - Hawse pipe to comply with the following requirements

4.2.3.23.1 The hawse pipe shall be of heavy section mild steel

4.2.3.23.2 The wall thickness shall be 12mm.

4.2.3.23.3 The pipe shall be secured to the deck and hull by mild steel flanges, double continuously welded.

A full description of work to be submitted in tender for anchor hawse pipe to be completed

4.2.3.24 CHAIN LOCKER

Chain locker to be inspected for completion.

Chain Locker to comply with the following requirements

4.2.3.24.1 One chain locker is required.

4.2.3.24.2 The chain locker shall be located in the forward store, be of ample size and be arranged for self-stowage of the cable.

4.2.3.24.3 Stiffening of the chain locker shall be external.

4.2.3.24.4 A large, watertight, access manhole shall be provided.

4.2.3.24.5 The chain locker and spurling pipe shall be watertight so as to prevent flooding of the forward store.

4.2.3.24.6 Three tapered brass plugs with square male drive shall be provided on the side of the locker for sounding purposes.

4.2.3.24.7 2.24.7 A suction to the bilge pump in the engine room shall be provided and be connected to a strum boom, externally mounted and accessible from the forward store.

4.2.3.24.8 The end of the cable shall be secured by an approved cable clench.

4.2.3.24.9 The chain locker shall be fitted with portable false floors.

4.2.3.24.10 The interior of the locker shall be painted in accordance with clause 4.2.12 of this specification "Painting".

A full description of work to be submitted in tender for chain locker to be completed.

4.2.3.25 TANKS

An approved tank plan drawing (see clause 5 for list of drawings) has been approved by Bureau Veritas, with all the required tanks shown on plan.

Drawing information includes:

- 1) Tank List with all the required tanks and sizes as per the original build specifications
- 2) Docking plug information
- 3) Water manhole positions with sizes

Tanks are to be inspected for completion

Tanks to comply with the following requirements

- 4.2.3.25.1 All air vents, sounding and filling pipes are to be fitted in accordance with the regulations.
- 4.2.3.25.2 They are to extend above the main deck and be sheltered under the bulwark, clear of mooring pipes.
- 4.2.3.25.3 They are to be fitted with brass female threaded caps with square male drive.
- 4.2.3.25.4 All tanks shall be provided with at least one large manhole.
- 4.2.3.25.5 Manholes are to be situated clear of piping and other objects which may obstruct free access.
- 4.2.3.25.6 Where practical, manholes are to have toe welded angle bars coatings, with bolted watertight covers.
- 4.2.3.25.7 For interior preparation of all tanks see clause 4.2.12 "Painting" of this specification.

4.2.3.26 FORE PEAK

All completed main fore peak work on vessels to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.26.1 The fore peak is to be fitted as a ballast tank.
- 4.2.3.26.2 The manholes shall have a flush watertight steel cover on deck.
- 4.2.3.26.3 The filling pipe shall incorporate a vent pipe in the form of a goose neck.
- 4.2.3.26.4 A sounding pipe shall be provided.
- 4.2.3.26.5 A suction, with strum box in the forward store, shall be connected to the general service pump in the engine room.

4.2.3.27 FUEL TANKS

Fuel tanks to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.27.1 Two side tanks with a combined capacity of 24m³ are to be fitted.
- 4.2.3.27.2 Two daily service tanks with a combined capacity of 2m³ are to be arranged above the deep tanks.
 - 4.2.3.27.2.1 The service tanks shall be at a height that will permit fuel to gravitate freely to the main and auxiliary engines.
- 4.2.3.27.3 The total fuel capacity could be stored in two equal wing tanks, doing away with double bottom tanks, as an alternative.
- 4.2.3.27.4 Each daily service tank shall be fitted with the following:
 - (a) A calibrated sight glass.
 - (b) A sounding pipe

- (c) A filling line from the transfer pump and the purifier.
- (d) A manhole
- (e) Two suction valves, similar to the double bottom tanks suction valves. One suction valve shall be connected to the main engine fuel filters, the other to the alternator engine fuel filters. These valves are to be arranged so that the fuel supply would be interrupted first to the main engines, then alternators in the event of the tanks running dry.
- (f) An overflow line from the top of the tank to the top of a double bottom tank. No valves or restrictions shall be fitted to the overflow lines which shall be provided with a sight glass, illuminated.
- (g) An air vent (see clause 4.2.3.25.1 and sub-clauses)
- (h) A drain plug (see clause 4.2.3.31)

A full description of work to be submitted in tender for fuel tanks work to be completed.

4.2.3.28 FRESH WATER TANKS

Fresh water tanks to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.28.1 Two fresh water tanks shall be provided, one on the port side and one on the starboard side.
- 4.2.3.28.2 The combined capacity of the two tanks shall be approximately 2,5m³.
- 4.2.3.28.3 Each fresh water tank shall be fitted with the following:
 - (a) A dial type contents gauge mounted on the engine room side, or an alternate means of measuring contents.
 - (b) A sounding pipe (See also clauses 4.2.3.26.4 and sub-clauses)
 - (c) A filling pipe from the main deck (see also clause 4.2.3.26.3 and sub-clauses)
 - (d) An air vent (see also clause 4.2.3.25.1. and sub-clauses)
 - (e) A manhole
 - (f) A screw lift suction valve connected to the hydraphore system pump and the general service pump.
 - (g) A drain pump (see also clause 4.2.3.31)
 - (h) The two tanks shall be interconnected through an isolating valve.

4.2.3.29 LUBRICATING OIL TANKS

Lubrication oil tanks to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.29.1 One reserve lubricating oil tank shall be provided and mounted on brackets in a convenient position in the engine room.
- 4.2.3.29.2 The capacity of the tank shall be 250litres.
- 4.2.3.29.3 The tank shall be fitted with the following:
- (a) A sounding pipe.
 - (b) A calibrated sounding rod stowed on brackets welded to the tanks.
 - (c) A filling pipe from the main deck.
 - (d) A lockable outlet cock.
 - (e) A spill tray under the tank.
- 4.2.3.29.4 One steel shelf with flanged edges shall be mounted on brackets in the convenient position in the engine room.
- 4.2.3.29.4.1 The shelf shall have four base retaining rings and strops to secure one 20litre drum each of the following:
- (a) Gearbox oil
 - (b) Paraffin
 - (c) Oil solvent
 - (d) Hydraulic oil

A full description of work to be submitted in tender for lubricating oil tanks work to be completed.

4.2.3.30 DIRTY OIL TANK.

Dry oil tanks to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.30.1 All welded, steel, holding tanks shall be provided in the engine room.
- 4.2.3.30.2 All engine sumps and save-alls to drain into this tank.
- 4.2.3.30.3 The capacity of the holding tank shall be 1m³
- 4.2.3.30.4 The tank shall be fitted with the following:
- (a) A sounding pipe with brass female threaded cap and square male drive, mounted in the engine room.
 - (b) A calibrated sounding rod stowed on brackets close to the tank.
 - (c) A manhole
 - (d) A SDNR suction valve connected to a dirty oil pump.
 - (e) An audible electric high-level alarm with klaxon in engine room and wheelhouse.

- (f) A vent pipe extending to the main deck (see also clause 4.2.3.25.1. and sub-clauses)
- (g) A drain plug (see also clause 4.2.3.31)
- (h) The dirty oil pump to discharge to deck and be capable of pumping to a receiving tank on the quay.

A full description of work to be submitted in tender for drying oil tank work to be completed.

4.2.3.31 DRAIN PLUGS

Drain plugs to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.31.1 All tanks of compartments shall be fitted with brass or sea water-resistant stainless-steel drain plugs, for draining purposes when the vessel is dry docked.
- 4.2.3.31.2 The heads of the plugs for oil tanks are to differ from those for water tanks to facilitate identification. (Square for water, hexagon for fuel)
- 4.2.3.31.3 Suitable spanners are to be provided for the removal of the plugs
- 4.2.3.31.4 The spanners are to be stamped "water" and "oil" stowed on brackets in the engine room.

A full description of work to be submitted in tender for drain plugs work to be completed.

TANK LIST						
No	CONTENT	CAPACITY 100% (m3)	DENSITY Tonnes/m3	MASS 100% Tonnes	LITRES Per Tank	LOCATION Frames
1	FORE PEAK BALLAST TANK	32.5	1.025	33.4	32500	32 to 36
2	CHAIN LOCKER	3.176	-	-	-	30 to 32
3	FRESH WATER (P)	5.128	1.0	5.128	5128	25 to 28
4	FRESH WATER (S)	5.128	1.0	5.128	5128	25 to 28
5	VOID	-	-	-	-	24 to 25
6	BLACK WATER TANK	3.68	1.0	3.681	3680	22 to 24
7	GREY WATER TANK	3.59	1.025	3.681	3590	22 to 24
8	VOID	-	-	-	-	21 to 22
9	FUEL BUNKER TANK (P)	14.564	0.850	12.38	14564	17 to 21
10	FUEL BUNKER TANK (S)	14.564	0.850	12.38	14564	17 to 21
11	BILGE OILY WATER TANK	1.26	1.025	1.225	1256	14 to 16
12	SLUDGE TANK (DIRTY OIL)	0.87	0.9	0.784	870	12 to 14
13	FUEL OIL DAY TANK (P)	14.56	0.850	1.052	14560	15 to 17
14	FUEL OIL DAY TANK (S)	14.56	0.850	1.052	14560	15 to 17
15	VOID	0.4817	-	-	-	2 to 6
16	AFT BALLAST TANK (P)	1.813	1.025	1.858	1813	-3 to 2
17	AFT BALLAST TANK (S)	1.813	1.025	1.858	1813	-3 to 2

4.2.3.32 BULKHEAD PENETRATIONS

4.2.3.32.1 Approved marine type bulkhead connections shall be employed in all piping and electrical cables to maintain water tightness of watertight bulkheads.

4.2.3.33 STEERING COMPARTMENT

4.2.3.33.1 The aftermost compartment shall house the steering gear hydraulic cylinders, links, tillers and associated equipment.

4.2.3.33.2 Access to the steering compartment shall be via the engine room.

4.2.3.33.3 The floors of the steering compartment shall be covered by aluminium plate or hardwood sections of manageable size.

4.2.3.33.4 Two air vents of adequate size to prevent condensation shall be fitted.

4.2.3.33.5 Drainage of the compartment shall be gravity to the engine room bilge.

4.2.3.33.5.1 A weighted cock shall be fitted to the bilge pipe on the engine room end and brass perforated screen on the steering compartment end.

4.2.3.33.6 The compartment shall be illuminated.

4.2.3.33.7 Provision to withdraw rudder stocks shall be provided in the main deck.

4.2.3.33.7.1 Flush fitting, watertight covers secured by brass C.S.K. set screws and nuts shall be provided and be aligned with rudder stocks.

4.2.3.34 AFTER STORE

4.2.3.34.1 An after store shall be provided.

4.2.3.34.2 The store shall be divided into two sections.

4.2.3.34.3 Access to the store shall be via the engine room.

4.2.3.34.4 Shelving is to be provided on the stbd side.

4.2.3.34.5 The port side of the store shall be the engine room store and be fitted with the following:

- (a) A watertight door into the engine room
- (b) The floor covered with hardwood sections or aluminium plate.
- (c) Fluorescent light fitting.
- (d) Hardwood shelved with retaining edges on steel brackets along the after bulkhead.
- (e) Lockable hardwood cupboards along the port side for small spares and large tools.
- (f) A lockable hardwood shadow board on the forward bulkhead with the small hand tools secured in their positions.
- (g) A standard tool set to be supplied with the main engines.
- (h) Grease gun, propeller nut spanner and propeller pulling device to be supplied.

4.2.3.35 FOREWARD STORE

4.2.3.35.1 The compartment aft of the fore peak shall be fitted out as a paint store and shall also house the machinery for the anchor capstan.

4.2.3.35.2 The anchor capstan shall be positioned on or near the centre line

4.2.3.35.2.1 The chain locker and the machinery for the anchor capstan shall be fitted on the port side on the compartment.

4.2.3.35.3 The compartment shall be fitted out with the following:

- (a) Entrance through a hardwood door in a hardwood frame from both accommodation spaces.
- (b) Fluorescent light fitting
- (c) Floor covered with aluminium plates of manageable sizes.
- (d) An escape hatch for the forward accommodation.
- (e) A steel double rung ladder to the escape hatch.
- (f) Hardwood shelves with retaining edges on steel brackets along the starboard side of forepeak bulkhead and shipside.

4.2.3.35.4 The compartment shall be adequately naturally ventilated.

4.2.3.35.5 The deck heads shall be well insulated against heat.

4.2.3.36 HATCHES (GENERAL)

Tenderer in inspect hatches installed and ensure the below criteria are met

4.2.3.36.1 The height of all hatches shall be to Department of Transport Marine Division minimum requirements.

4.2.3.36.2 The corners of coamings are to be rounded.

4.2.3.36.3 All hatch covers are to be hinged, watertight type with dogs, wing nuts, toggle bolt and pins of sea water resistant stainless steel.

4.2.3.37 HATCHES (EMERGENCY ESCAPE)

Tenderer to inspect emergency hatches installed and ensure the below criteria are met

4.2.3.37.1 The following hatches shall be provided:

- (a) Accommodation - escape hatch operable from either side
- (b) Engine Room – escape hatch operable from either side over port side of steering flat.

4.2.3.38 PILOT BOARDING PLATFORMS

- 4.2.3.38.1 A raised Pilot boarding platform, port and starboard is to be provided behind the accommodation.
- 4.2.3.38.2 Access is to be through the aft end of the bridge.
- 4.2.3.38.3 Suitable rails are to be provided for the boarding in rough weather. Details to be provided.
- 4.2.3.38.4 The outer ends are to be able to be raised and kept as light as possible without the sacrifice of safety.
- 4.2.3.38.5 A pilot boarding platform on either side of the wheelhouse is to be provided at main deck bulwark level, with suitable hand rails.

4.2.3.39 MAIN AND AUXILIARY SEATS

All main and auxiliary seats to be inspected as per installation on vessels

- 4.2.3.39.1 All machinery seats are to be of all welded robust construction with special attention being given to the avoidance of vibration.
- 4.2.3.39.2 Resin chocks, "Chock fast" or similar, are preferred. Flexible mountings are not acceptable for main engines. For alternators see clause 4.2.5.16.3

4.2.3.40 PILLARS AND GIRDERS

Pillars and girders to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

Pillars and girders are to be fitted where necessary and arranged to allow maximum headroom. Additional pillars are required under deck machinery and where otherwise necessary.

- 4.2.3.40.1 A lifting rail shall be secured to the deck head above each main engine.
 - 4.2.3.40.1.1 The rail shall be of round section and be aligned to the centerline of the engine.
 - 4.2.3.40.1.2 It shall be capable of supporting the heaviest removable part of the engine with a safety factor of 6.
 - 4.2.3.40.1.3 Three tested shackles with the same S.W.L. as the rail shall be supplied on each rail.
 - 4.2.3.40.1.4 The S.W.L. of the rail shall be painted on a prominent notice affixed to the rail.

A full description of work to be submitted in tender for pillars and girders work to be completed.

4.2.3.41 CRANE

4.2.3.41.1 A FASSI Hydraulic Marine Crane or similar of 10.0 ton meter capacity shall be fully installed.

4.2.3.41.2 All associated equipment except for the crane winch which is not required is to be quoted for to make crane fully operational.

4.2.3.41.3 The crane is to be positioned on the Stbd. side behind the aft boarding platform.

4.2.3.41.4 Provision to be made so that the crane is capable of being electrically isolated at the main switchboard.

4.2.3.41.5 The crane is to be protected from being snagged by the working wire during towing operations by a suitable means.

4.2.3.42 VOID

4.2.3.43 SIDE FENDERS

Side fenders to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.43.1 A detailed arrangement for the securing of side fenders and the position shall be incorporated in the tender document.

A full description of work to be submitted in tender for side fenders work to be completed.

4.2.3.44 LADDERS, HANDRAILS AND STANCHIONS

Ladders, handrails and stanchions to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.44.1 All necessary ladders, handrails and stanchions are to be fitted.

4.2.3.44.2 All ladders, handrails and stanchions of steel are to be heavily galvanized.

4.2.3.44.3 Vertical ladders are to be constructed of flat bar with double rungs welded in position.

4.2.3.44.4 Exposed companion ladders on deck and for engine room access are to be fabricated in steel with non-slip treads.

4.2.3.44.5 Ladders in accommodations are to be constructed from selected hardwood and fitted with non-slip treads.

4.2.3.44.6 Handrails and stanchions in way of the compass are to be of brass or other approved non-ferrous alloy.

A full description of work to be submitted in tender for ladders, handrails and stanchions work to be completed.

4.2.3.45 TOWING HOOK

- 4.2.3.45.1 A well-designed rotating towing hook shall be provided on the after bulkhead of the superstructure.
- 4.2.3.45.2 The position of the hook shall be carefully calculated to assure safety of the ship under all normal conditions of towing.
- 4.2.3.45.3 The hook need not be shock absorbent but must be fitted with a release arrangement operable from the wheelhouse and at the hook.
- 4.2.3.45.4 The hook shall be fitted on substantial brackets on the centre line.
- 4.2.3.45.5 It is to be capable of withstanding the shocks and strains imposed when the vessel is towing at full power in a seaway.
- 4.2.3.45.6 Full details of the proposed hook and release gear are to be submitted with the tender.

4.2.3.46 TOWING BEAM

Towing beam to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

- 4.2.3.46.1 A towing beam to be fitted to after deck with sufficient height to prevent snagging of the tow rope on aft deck. It is to be made removable so as to handle buoys and chains.

A full description of work to be submitted in tender for towing beam work to be completed.

4.2.3.47 VOID

4.2.3.48 EXHAUSTS

Exhausts to be inspected as per the approved Bureau Veritas approved drawing. The following factors are to be taken into consideration upon inspection.

4.2.3.48.1 All exhausts to be taken over the stern with necessary water traps complying to Classification Society rules.

4.2.3.49 MAST

4.2.3.49.1 The mast shall be of steel and is to be of sufficient strength to carry the radio and navigational equipment.

4.2.3.49.2 All necessary fittings and signal halyards are to be supplied and fitted.

4.2.3.50 ENSIGN STAFF

4.2.3.50.1 A steel ensign staff shall be fitted to the after end of the accommodation.

4.2.3.51 AIR WHISTLE

4.2.3.51.1 An electro pneumatic whistle shall be fitted in the most suitable position on the mast.

4.2.3.51.2 It shall be of best quality materials suitable for marine use.

4.2.3.51.3 It shall be operable from a convenient position in the wheel house.

4.2.3.52 NAVIGATION LIGHTS

4.2.3.52.1 A full set of approved electric mast head lights, side lights, anchor, towing and stern lights and N.V.C. lights with switches and telltales in the wheelhouse, is to be provided.

4.2.3.52.2 In addition, one complete set of standby lights for use in an emergency, meeting the requirements of the Department of Transport, Marine Division, is to be provided. Double tier lamps are required.

4.2.3.52.3 All lights shall be of the best marine quality.

4.2.3.52.4 The lights shall fully comply with the South African Department of Transport (Marine Division) latest requirements. Necessary certificates to be issued with each light.

4.2.3.53 WASH DECK SERVICE

4.2.3.53.1 Suitable connections are to be made forward and aft for 63,5mm instantaneous couplings and 63,5mm hose connections are to be so placed that any part of the deck be washed down with a hose not exceeding 10m in length.

4.2.3.53.2 "Saunders" type diaphragm valves or similar are required.

4.2.3.53.3 A ten metre length of heavy duty reinforced rubber hose complete with nozzle shall be supplied and stowed on brackets against the bulwark.

4.2.3.54 LIFE SAVING EQUIPMENT

4.2.3.54.1 Life saving equipment conforming to the Department of Transport, Marine Division, requirements for this class of vessel shall be provided and fitted. This shall include life jackets, life rafts, flares, EPIRB and SART.

4.2.3.54.2 Tenderers shall offer a make of life raft already in use on the South African Transport Services' harbour craft.

4.2.3.54.2.1 The makes of life raft already in general use, are as follows:

- (a) D.S.B.
- (b) R.F.D.
- (c) Viking

4.2.3.55 FIRE FIGHTING EQUIPMENT

4.2.3.55.1 For details of requirements see "Fire Fighting Equipment" (clause 4.2.11) or this specification.

4.2.3.55.2 A CO² smothering system shall be installed in the engine room. A CO² locker is preferred; however the Tenderer shall state his intentions in this regard.

4.2.3.55.3 A fire detection alarm installation shall be fitted.

4.2.3.55.4 The vessel is to be equipped with 2 B.A sets of SABS approved design.

4.2.3.56 NAME AND NAMEPLATES

4.2.3.56.1 The name of the vessel shall be formed from letters of suitable size cut from steel plate and welded to each bow. The name of the vessel and port of registry, in similar letters is to be fitted above the stern.

4.2.3.56.1.1 All edges of the letters shall be continuously welded to prevent corrosion.

4.2.3.57 PROTECTION OF HULL

4.2.3.57.1 Cathodic protection of the hull shall be provided by means of sacrificial anodes bolt on type

4.2.3.57.2 Alternative methods of protection may be offered.

4.2.3.58 FLOOR PLATES

4.2.3.58.1 Chequered aluminium floor plates are to be fitted in the engine room.

4.2.3.59 BILGE ALARM

4.2.3.59.1 The engine room bilge is to be equipped with visual and audible high-level alarm. Electrical supply to be from the 24 volt system and visual alarm to be visible and audible from the quay.

4.2.4 WHEELHOUSE AND ACCOMODATION

4.2.4.1 WHEELHOUSE

- 4.2.4.1.1 The arrangement of the wheelhouse layout shall be submitted when tendering.
- 4.2.4.1.2 Special attention shall be given to the provision of good all-round visibility from the wheelhouse.
- 4.2.4.1.3 The wheelhouse shall be totally enclosed and suitably insulated against noise and heat.
 - 4.2.4.1.3.1 The noise level in the wheelhouse shall not exceed 70 dB (A) under any condition.
- 4.2.4.1.4 The wheelhouse shall be air conditioned (for detail see clause 4.2.8 "Ventilation" of this specification)
- 4.2.4.1.5 Wheelhouse to be fitted with a dinette consisting of couch and table.
 - 4.2.4.1.5.1 All windows are to be watertight type with armour plate glass in steel frames.
 - 4.2.4.1.5.2 Window dimensions shall be as large as possible approximately 800mm x 1000mm, clear light.
 - 4.2.4.1.5.3 The windows on the wheelhouse front shall be fitted with best quality wipers with a clear view screen in the centre window.
 - 4.2.4.1.5.4 All forward windows fitted shall be provided with fresh water jets, operable from the wheelhouse.
 - 4.2.4.1.5.5 One window on each side of the wheelhouse shall be hinged opening type.
 - 4.2.4.1.5.6 All other windows shall be of the fixed type.
 - 4.2.4.1.5.7 Internal handrails shall be arranged at the windows' lower edge to minimise obstruction to view.
 - 4.2.4.1.5.8 Sky windows to be provided around the fwd section of wheelhouse.
 - 4.2.4.1.5.9 One aft facing window to be turned into a door for access to the pilot's platform aft of the accommodation.
- 4.2.4.1.6 A ship general alarm shall be fitted. This alarm shall be capable of being initiated both from the wheelhouse and from the engine room.
 - 4.2.4.1.6.1 A bilge alarm shall be fitted with audible alarm and external flashing light.
- 4.2.4.1.7 Hardwood handrails shall be fitted in the wheelhouse (see also clause 4.2.4.1.5.7)
- 4.2.4.1.8 The deck head and bulkhead insulation shall be lined with fire retardant board faced with "Panelite" or similar easily cleanable material.
- 4.2.4.1.9 The entrance to the wheelhouse shall be via an aluminium door.
- 4.2.4.1.10 The wheelhouse deck shall be flush and covered with "Treadmaster" or similar composition laid over 20mm thick "Abeco" or equivalent.
 - 4.2.4.1.10.1 All seams shall be watertight, edges covered up 75mm and sealed against bulkheads.

4.2.4.1.11 The wheelhouse deck head shall be cambered and arranged under flush with the sides to form a gutter.

4.2.4.1.11.1 Scuppers are to discharge on the main deck.

4.2.4.2 WHEELHOUSE CONTROLS AND EQUIPMENT

4.2.4.2.1 A control console on the centerline fitted with the following equipment:

4.2.4.2.1.1 A steering wheel

4.2.4.2.1.2 Main engine emergency stop buttons. The buttons shall be guarded to avoid accidental contact.

4.2.4.2.1.3 A four station talk back system.

4.2.4.2.1.3.1 The stations shall be as follows:

- (a) Wheelhouse
- (b) Fore deck
- (c) Crew's accommodation
- (d) After deck

- 4.2.4.2.1.4 A revolution counter for each main engine
- 4.2.4.2.1.5 An oil pressure gauge for each main engine
- 4.2.4.2.1.6 A visual/audible alarm for each main engine low lubricating oil pressure.
- 4.2.4.2.1.7 A visual/audible alarm for each main engine high primary cooling water temperature.
- 4.2.4.2.1.8 A running light for each alternator and each steering gear pump.
- 4.2.4.2.1.9 A visual/audible alarm for each alternator engine low lubricating oil pressure.
- 4.2.4.2.1.10 A visual/audible alarm for each alternator engine high primary cooling water temperature.
- 4.2.4.2.1.11 A visual/audible alarm for each gearbox low lubricating oil pressure.
- 4.2.4.2.1.12 An oil pressure gauge for each gearbox.
- 4.2.4.2.2 One remote engine control console shall be mounted in the most convenient position on the forward starboard end of the wheelhouse, for control of the main engine and reverse/reduction gearboxes.
 - 4.2.4.2.2.1 Two VHF sailor radio transceivers. The port operating frequency shall have an extension handset and speaker in the officers' accommodation.
 - 4.2.4.2.2.2 One Furuno daylight 24 mile radar, with plotting capabilities.
 - 4.2.4.2.2.3 One Furuno type echo sounder with paper and visual recorder.
 - 4.2.4.2.2.4 One portable loudhailer.
 - 4.2.4.2.2.5 An admiralty type Aldis lamp complete with 12 volt supply and battery with charging unit. (For full details of navigational and communication equipment see clause 4.2.10 of this specification)
 - 4.2.4.2.2.6 A magnetic compass suitably placed to be easily visible from the steering position. Special attention shall be afforded the positioning of equipment in the vicinity of the compass to permit compass correction.
 - 4.2.4.2.2.7 A helm indicator mounted at a height convenient to the helmsman.
 - 4.2.4.2.2.8 A 500 W Marine approved type searchlight shall be mounted on the wheelhouse top, forward and be operable from inside the wheelhouse.
 - 4.2.4.2.2.8.1 The searchlight shall be capable of being rotated through 360° and shall beam through an angle of 45° on each side of the horizontal.
 - 4.2.4.2.2.8.2 A watertight cover shall be provided.
 - 4.2.4.2.2.9 A 100mm best quality marine type chromium plated brass clock with sweep second hand (See Clause 4.2.10.3.12)
 - 4.2.4.2.2.10 A 100mm best quality marine type chromium plated brass barometer.
 - 4.2.4.2.2.11 The wheelhouse shall be adequately illuminated.
 - 4.2.4.2.2.12 Two switched 3 pin socket outlets. (220v 16 AMP)

- 4.2.4.2.2.13 An electrical switchboard containing all electrical equipment, switches which require to be operated from within the wheelhouse, i.e. navigation lights, searchlights, floodlights, deck lights and wheelhouse lighting.
- 4.2.4.2.2.14 All instruments (including compass) and gauges shall be illuminated through dimmer switches.
- 4.2.4.2.2.15 A flag locker complete with one set of international code flags and two South African ensigns.
- 4.2.4.2.2.16 One marine fixed mounted anemometer to be installed on bridge.
- 4.2.4.2.2.17 One GPS navigator to be installed on bridge.
- 4.2.4.2.2.18 One AIS to be installed on bridge. Linked to radar.
- 4.2.4.2.3 The following miscellaneous equipment shall be supplied and be stowed as indicated:
- 4.2.4.2.3.1 One pair 7 x 50 marine prismatic binoculars, admiralty type or similar stowed in a hardwood box attached to the bulkhead.
- 4.2.4.2.3.2 One pair transparent Perspex parallel rulers (375mm) stowed in chart table drawer.
- 4.2.4.2.3.3 One pair best quality chart dividers stowed in chart table drawer.
- 4.2.4.2.3.4 One self-standing swivel stool with padded seat.
- 4.2.4.2.3.5 Stowage for lifejackets which is to be labelled.
- 4.2.4.2.3.6 Drawer or cupboard for the stowage of radio spares, spare bulbs, fuses and life saving equipment (flares, EPIRB, etc.)
- 4.2.4.2.3.7 A chart table with drawers for charts and small navigation instruments. A cupboard shall be constructed under the table and the table top shall be fitted with a 4mm Perspex overlay hinged to allow charts to be placed underneath.
- 4.2.4.2.3.8 Six coat hooks.
- 4.2.4.2.4 All hardware, i.e. coat hooks, door locks, door bolts, hinges, handrail brackets, etc., shall be of chromium plated brass.
- 4.2.4.2.5 All cupboard doors shall be fitted with spring catches. Doors shall not rely on locks to remain in closed position, and must be secured by hooks in the open position.
- 4.2.4.2.6 For details of equipment required by clauses 4.2.4.2.2.8, 4.2.4.2.2.11 and 4.2.4.2.2.13, see clause 4.2.7 "Electrical" of this specification.
- 4.2.4.2.7 For details of equipment required by clauses 4.2.4.2.3 and 4.2.4.2.4 see clause 4.2.10 "Communications" of this specification.
- 4.2.4.2.8 All other wheelhouse equipment as detailed in other sections of this specification shall be supplied and fitted.
- 4.2.4.3 ACCOMMODATION (GENERAL)

- 4.2.4.3.1 The accommodation shall be arranged for two officers and 4 crew in two separate cabins. It is to be constructed to modern standards of best quality material and the layout and materials are to facilitate cleaning.
- 4.2.4.3.2 All accommodation spaces are to be insulated against heat, cold and noise in the most modern and efficient manner.
- 4.2.4.3.2.1 Particular attention is to be given to the elimination of noise and the following levels must not be exceeded:
 - (a) Wheel house 70 dB (A) (see also clause 4.2.4.1.3.1)
 - (b) Accommodation 75 dB (A)

- 4.2.4.3.3 All internal doors, door frames and furniture are to be constructed of Kiaat or Afromosia. Panelite faced marine ply with suitable edge trim, is to be used for desk tops and table tops.
- 4.2.4.3.4 All hardware, including hinges and locks, is to be of best quality chromium plated brass. All cupboards and drawers shall be provided with locks.
 - 4.2.4.3.4.1 All cupboard doors shall be fitted with spring catches. Doors shall not be dependent on locks to remain in closed position. (See also clause 4.2.4.2.5)
- 4.2.4.3.5 All steel bulkheads and deck heads in accommodation and engine room casing are to be lined with fire retardant board faced with "Panelite" or other fire retardant board of similar quality. All non-steel division bulkheads in accommodation shall be at least 19mm in thickness and of similar material. The edges of boards are to be protected against the ingress of water.
- 4.2.4.3.6 All external doors opening to the main deck shall be of the steel watertight type, or approved by the Classification Society.
- 4.2.4.3.7 All portholes and window fittings shall be of brass and glass to be armour plated. Suitable deflectors (eye brows) are to be fitted. Where practicable port holes are to be at least 350mm, deadlights are to be fitted where required.
- 4.2.4.3.8 Decks in crews' accommodation and officers' accommodation are to be covered with 210mm thick "Abeco" or equivalent deck composition and sheathed with "Treadmaster".
 - 4.2.4.3.8.1 All seams shall be watertight, edges covered up 75mm and sealed against bulkheads.
- 4.2.4.3.9 Shower cubicle and toilet shall have decks covered with approved non-skid encaustic tiling covered up 75mm at edges and watertight.
- 4.2.4.3.10 All wash basins shall be of the best quality. Details of types and sizes must be submitted for approval.
- 4.2.4.3.11 All taps are to be of chromium plated brass.
- 4.2.4.3.12 All showers shall be fitted with chromium plated brass mixing valves and roses.
- 4.2.4.3.13 All showers and wash basins shall be provided with hot and cold running fresh water.
- 4.2.4.3.14 A chromium plated, brass, "Solway" type flushing valve is to be fitted for each toilet.
- 4.2.4.3.15 One 200 litre plus stainless steel refrigerator shall be supplied and installed in the galley area. Refrigerator to have sufficient freezer space.
- 4.2.4.3.16 Air conditioning
 - 4.2.4.3.16.1 A free standing air conditioning unit shall be supplied and installed in the wheelhouse if deemed necessary, to meet air condition requirements.
- 4.2.4.3.17 Mechanical ventilation shall be provided in all accommodation spaces and engine room.
 - 4.2.4.3.17.1 Two speed fans shall be fitted.
 - 4.2.4.3.17.2 The fans shall be arranged as follows:

- (a) The engine room fans shall be mounted on the after bulkhead of the wheelhouse. The air shall be ducted to the after end of the engine room to provide a through draught.
- (b) The accommodation fans shall be mounted to allow the best visibility from the wheelhouse.
- (c) The toilet shall employ extraction fans and screw down mushroom type exhaust outlet at the highest point.

4.2.4.3.17.3 An isolating switch operable from the main deck shall be provided on each fan.

4.2.4.3.17.4 Special attention shall be afforded the noise level in the vicinity of the fan air intakes. A level of 85dB (A) within a distance of 1m from intake must not be exceeded.

4.2.4.3.17.5 The volume of air required for the engine room and accommodation spaces shall be calculated as follows:

- (a) The engine room: the combined manufacturer's requirements for all machinery at full output plus 50%.
- (b) The accommodation space: 7 to 8 air changes per hour. (See also clause 4.2.8 "Ventilation" of this specification)

4.2.4.3.18 All other compartments are to be provided with ample natural ventilation.

4.2.4.3.19 Settee and bed/settee cushions and backs are to be fitted with plastic foam and covered with an approved vinyl material.

4.2.4.3.19.1 Portable bunk boards are to be provided for all bed/settees.

4.2.4.3.20 All shower cubicles are to be fitted with wooden gratings and shower curtains made from Dacron sail cloth, or similar.

4.2.4.3.20.1 A soap dish shall be provided in each shower.

4.2.4.3.21 Electric Lighting

All accommodation spaces are to be provided with electric lighting of the fluorescent type.

4.2.4.3.21.1 All necessary lights are to be fitted in the engine room, alleyways and entrances. Lights are to be of the fluorescent type.

4.2.4.3.21.2 Three shielded deck lights shall be provided on the wheelhouse outer bulkhead on each side of the vessel.

4.2.4.3.21.2.1 Each side shall be controlled by separate switches from within the wheelhouse. For details of lighting requirements see section 6 "Electrical" of this specification.

4.2.4.3.22 Socket Outlets

4.2.4.3.22.1 Three pin 230V watertight switched socket outlets are to be provided in the following positions:

- (a) One – fore deck
- (b) One – after deck

- (c) One – forward store
- (d) One – after store (port side)
- (e) One – after store (starboard side)
- (f) Two – engine room

4.2.4.3.22.2 Three pin, 230V flush mounting, switch socket outlets are to be provided in the following positions:

- (a) Two – wheelhouse
- (b) Two – officers' accommodation
- (c) Two – crews' accommodation

4.2.4.3.22.3 Watertight, 32V, switched socket outlets are to be provided in the following positions:

- (a) Two – engine room (For details of socket outlets see clause 4.2.7 "Electrical" of this specification).

4.2.4.3.23 **Bell**

A chromium plated bell made of best quality bell metal is to be supplied and hung in a suitable position.

4.2.4.3.23.1 The bell shall be engraved with the ship's name and year built.

4.2.4.3.24 **Clocks**

A 100mm chromium plated brass clock with sweep second hand shall be mounted in each of the following positions:

- (a) Wheelhouse (see also clause 4.2.4.2.2.9)
- (b) Engine room

4.2.4.3.25 A first aid box complying to SAMSA requirements, shall be supplied and stowed in a water tight container.

4.2.4.3.26 **Keys**

4.2.4.3.26.1 All locks are to be of the rotary disc type in chromium plated brass.

4.2.4.3.26.2 Locks are to be standardised as far as possible.

4.2.4.3.26.3 A master key is required.

4.2.4.3.26.4 A glass fronted, hardwood keyboard suitably indexed shall be fitted in the officers' accommodation.

4.2.4.3.27 Internal Communication Systems

4.2.4.3.27.1 For details see clause 4.2.4.2.1.3 (For station talk back systems)

4.2.4.3.28 **Drainage**

4.2.4.3.28.1 The drainage from the crews' shower and washbasins shall comply with the latest international standards. If a holding tank is required (see clause 4.2.3.30 for specification.)

4.2.4.3.28.2 The drainage from the officers' shower and washbasin shall comply with the latest international standards. If a holding tank is required (see 4.2.3.30 for specification.)

4.2.4.3.28.3 The two toilet discharges shall comply to the latest international standards. (See clause 4.2.4.3.28.8)

4.2.4.3.28.4 Pipe bends are to be provided with access covers to facilitate cleaning of choked pipes.

4.2.4.3.28.5 All necessary non-return and storm valves are to be fitted.

4.2.4.3.28.6 All piping shall be of schedule 40 API hot dipped galvanized, connected by bolted flanges double continuously welded to the pipes.

4.2.4.3.28.7 All fittings and valves shall be of the best quality and be approved.

4.2.4.3.28.8 An approved sewage plant and black water system shall be installed to comply with the latest SAMSA / Marpol requirements.

4.2.4.3.29 Cooking facilities and outfit

4.2.4.3.29.1 A galley with kitchen unit, sink, Sultan mini stove and microwave shall be fitted.

4.2.4.3.30 Officer's Accommodation

4.2.4.3.30.1 The officers' accommodation is to be arranged below deck, forward on the port side for two officers.

4.2.4.3.30.2 The accommodation shall be fitted out as follows:

(a) Two bed settees with drawers under

(b) A table for two

(c) Two comfortable swivel chairs secured to the deck at the table

- (d) Four wardrobes
- (e) Four lockable hardwood cupboards, one with two open shelves and two shelves divided to store A2 size paper. The other arranged to store a full set of machinery and equipment manuals and a set of drawings.
- (f) Hand wash basin with mirror over
- (g) Toilet cabinet with rack holding two glasses
- (h) Towel rail
- (i) Four coat hooks
- (j) Deck head and bunk lights
- (k) Carpet
- (l) Door curtain

4.2.4.3.30.3 The refrigerator required by clause 3.3.15 shall be installed in a convenient position.

4.2.4.3.30.4 A shower shall be provided in a convenient position in the lower accommodation. It shall comply with clauses 4.2.4.3.12,4.2.4.3.13 and in addition shall be fitted out with the following:

- (a) A hardwood floor grating
- (b) A soap dish
- (c) A fold down shelf
- (d) A shower curtain

4.2.4.3.30.5 The shower and washbasin outlets shall be led to the holding tank in the engine room.

4.2.4.3.31 Crews' Accommodation

4.2.4.3.31.1 The crews' accommodation is to be arranged below deck, forward and fitted out for accommodating four crew.

4.2.4.3.31.2 The accommodation shall be fitted out as follows:

- (a) Four bunks with upholstered mattresses (see also clause 4.2.4.3.19)
- (b) A table with two benches to seat four
- (c) Nine small lockable steel lockers arranged as multi-tier lockers bolted to the bulkhead.
- (d) Bunk and deck head lights
- (e) Hand washbasin with mirror over
- (f) Toilet cabinet
- (g) Towel rail

(h) Eight coat hooks

(i) Door curtain

4.2.4.3.32 Water Closets

A toilet is to be provided in the lower accommodation.

4.2.4.3.32.1 For details of outlet and ventilation see clauses 4.2.4.3.28.3 and 4.2.4.3.17.2 (c).

4.2.4.3.32.2 The compartment forward bulkhead and deck head shall be insulated.

4.2.5 MACHINERY AND COMPRESSOR PLANT

4.2.5.1 GENERAL

- 4.2.5.1.1 The whole of the machinery installation shall comply strictly with the requirements of the South African Department of Transport, Marine Division, and the Classification Society requirements.
- 4.2.5.1.2 The layout of the machinery shall be arranged for easy watchkeeping and maintenance.
- 4.2.5.1.2.1 All items of equipment, including main engines and gearboxes, shall be mounted on bearers of sufficient height to be raised above the floor plates.
- 4.2.5.1.2.2 Pipework, where possible, shall be routed along the ship's side sufficiently clear to allow for maintenance, and to be kept as simple as possible.
- 4.2.5.1.3 All pipework with a normal bore of 25mm and under shall be of sea water resistant stainless steel or other similar alloy. All pipework with a nominal bore larger than 25mm shall be of steel, A.P.I. quality and connected by bolted flanges, double continuously welded. Stainless steel piping shall be connected by approved solderless nipples. Hydraulic (high pressure) piping shall be "Kumifer 10" or similar.
- 4.2.5.1.3.1 All pipework shall be well secured in steel brackets with approved lining.
- 4.2.5.1.3.2 All steel pipework shall be hot dipped galvanized after manufacture.
- 4.2.5.1.4 All equipment shall function satisfactorily under such conditions of vibrations and shock as will be experienced in the course of the vessel's duties.
- 4.2.5.1.5 All equipment shall be of an approved marine quality and shall be fully tested in the maker's works prior to delivery, in accordance with the standards specified.
- 4.2.5.1.5.1 The Senior Marine Engineer reserves the right to have a representative present when any tests are carried out.
- 4.2.5.1.6 Button type grease nipples shall be fitted throughout, where impracticable nipple type may be fitted and only when approved by the inspection engineer.
- 4.2.5.1.7 All equipment shall be suitable to function in conditions as detailed in clause 4.2.1.27
- 4.2.5.1.8 Notwithstanding the successful completion of tests and the submission of test certificates, the contractor shall be liable for the rectification of defects which become apparent during the 12 months' guarantee period.

4.2.5.2 CRITICAL SPEEDS

- 4.2.5.2.1 The propelling machinery is to be designed to minimize vibration and to avoid any resonance with the major existing frequencies of the rotating machinery.
- 4.2.5.2.2 As this installation calls for variable speed main engines, critical speeds in the normal working range are not acceptable.

4.2.5.3 MAIN AND ALTERNATOR DIESEL ENGINES

For details of the diesel engines see Section 5 of this specification.

4.2.5.4 GEARBOXES

A follow up by the tenderer with the subcontractor is to be done with regards to the gearboxes supplied. The gearboxes have been identified by the previous contractor for installation and specifications used for fitment into engine room for gearboxes. Bases for gearboxes have been fitted in engine room as per specifications for installations.

- 4.2.5.4.1 A well proven continuously rated oil operated reserve /reduction type marine gearbox shall be installed for each engine, Reintjie twin disc and equivalent.
- 4.2.5.4.2 The propeller shall be absorbed by bearings integral with the gearbox.
- 4.2.5.4.3 The clutch shall be integral with the gearbox.
- 4.2.5.4.4 A pressure fed lubrication system complete with pumps, coolers, filters, thermometers, and pressure gauges shall be employed.
- 4.2.5.4.5 Low lubrication oil pressure shall activate an audible alarm.
- 4.2.5.4.6 An approved marine type coupling shall connect the gearbox to the engine.
- 4.2.5.4.7 A trolling valve to be incorporated.
- 4.2.5.4.8 The following instruments shall be provided:
 - (a) High oil temperature – thermometer on panel at gearbox.
 - (b) Low oil pressure – audible alarm on console in wheelhouse and on panel at gearbox.
(See also clause 4.2.5.4.5)

4.2.5.5 STERN GEAR

4.2.5.5.1 The tail shaft between the propeller and gearbox shall be rigid and adequately supported on bearings where required.

4.2.5.5.2 The tail shaft shall be of steel without bronze liners.

4.2.5.5.2.1 It shall be machined round and have identical tapers on both ends.

4.2.5.5.3 Oil lubricated heavy steel stern tubes with suitable bearings shall be installed and be provided with efficient inner and outer seals.

4.2.5.5.3.1 The stern tubes shall be supported externally on efficient "A" brackets.

4.2.5.5.4 A split cast brass rope guard shall be attached to each propeller.

4.2.5.5.5 Balanced, polished bronze, fixed pitch propellers shall be keyed to the tailshafts.

4.2.5.6 STEERING GEAR

4.2.5.6.1 An efficient power boosted; hand hydraulic steering gear shall be installed. Controlled from a joystick at the stbd seating position and from the wheel on the center line.

4.2.5.6.1.1 The arrangement shall be such that in the event of power failing the steering shall continue to function under hand power only and without the necessity of changing over valves or other equipment.

4.2.5.6.2 The booster pump shall be driven by an electric motor.

4.2.5.6.2.1 An identical standby pump and motor shall be installed and be connected with the necessary isolating valves.

4.2.5.6.2.2 A light to indicate the steering gear pump is running shall be mounted on the wheelhouse console. (See also clause 4.2.4.2.1.8).

4.2.5.6.2.3 The pump shall be arranged for local starting only.

4.2.5.6.3 Hydraulic piping shall be of best quality corrosion resistant material run underdeck and securely clamped on substantial brackets to eliminate vibration.

4.2.5.6.4 The fluid reservoir, filter, valves and all other necessary equipment shall be located in an easily accessible position.

4.2.5.7 RUDDERS

4.2.5.7.1 Twin mild steel rudders of the overhung type shall be provided.

4.2.5.7.2 A substantial, steel stock shall be fitted for each rudder.

4.2.5.7.2.1 A palm with monel metal bolts shall be fitted between rudder and stock to facilitate easy removal.

4.2.5.7.3 The stock shall operate in lubricated, sealed bearings and be supported on an approved thrust bearing.

4.2.5.7.4 The entire assembly shall be well supported on efficient seats.

4.2.5.7.5 An illuminated rudder angle indicator shall be installed at the steering position in the wheelhouse. (See also clause 4.2.4.2.3.7).

4.2.5.8 PIPING, ARRANGEMENT AND FITTINGS

4.2.5.8.1 The piping shall be of materials as detailed in clause 4.2.5.1.3

4.2.5.8.2 The bilge lines shall be arranged so that any and all compartments of the vessel may be pumped out independently.

4.2.5.8.3 All bilge suction shall be grouped on a common bilge manifold situated in the engine room.

4.2.5.8.3.1 Provision shall be made to enable the fore peak and chain locker strum boxes to be safely cleaned with tanks full.

4.2.5.8.4 Bilge suction shall be fitted with bronze S.D.N.R. valves, strum boxes and rose boxes where required.

4.2.5.8.5 The pipe runs shall be as detailed in clause 4.2.5.1.2.2.

4.2.5.8.6 All shipside valves shall be of an approved S.D.N.R. type and be of bronze.

4.2.5.8.6.1 Discharge valves shall be situated above the loaded waterline.

4.2.5.8.7 A sea suction chest shall be fitted on each side of the vessel.

4.2.5.8.7.1 The two chests shall be interconnected and be fitted with the necessary valves, strainer boxes and grids.

4.2.5.8.7.2 A sea suction line shall connect the crossover pipe to the bilge pump and general service pump.

4.2.5.8.7.3 Special consideration must be given when positioning the sea chests to avoid the possibility of air locks.

4.2.5.8.7.4 The suction chests shall be fitted with an air vent pipe terminating in a gooseneck above the main deck.

4.2.5.8.7.5 Sea chests to be protected by sacrificial bolt or anodes.

4.2.5.8.7.6 Sea chests to have weed clearing facilities. To be piped to air receiver, with necessary reducer and non-return valves in line.

4.2.5.8.8 The wash deck line, 40mm N.B. shall also service as a fire line.

4.2.5.8.8.1 It shall be fitted with standard 63,5mm instantaneous fire hydrants complete with diaphragm type valves.

4.2.5.8.8.2 At least three hydrants shall be supplied

4.2.5.8.8.3 Special attention shall be given to the avoidance of vibration.

4.2.5.8.8.4 All piping flanges and valves are to be colour coded.

4.2.5.8.8.5 Careful attention shall be paid to the pipework layout to ensure easy accessibility of all joints to permit easy maintenance.

4.2.5.8.8.6 Approved bulkhead connectors shall be employed in all cases where pipes pass through deck heads, decks and bulkheads.

4.2.5.8.8.7 All salt water piping to be protected by sacrificial anodes.

4.2.5.8.8.8 Cocks and valves of 75mm bore and under are to be of gunmetal

4.2.5.9 FUEL TANK VALVES

4.2.5.9.1 Valves with quick release operate from the main deck are to be provided in the following positions:

- (a) High and low suctions on each fuel tank.

- 4.2.5.9.2 The operating handles shall be in a lockable tamperproof box with glass front.
- 4.2.5.9.3 Fuel Service tanks shall be fitted with separate suction valves for main engine and auxiliary engines supply.
- 4.2.5.10 BILGE PUMP
 - 4.2.5.10.1 One bilge pump shall be installed; it shall be an electric motor driven, self-priming centrifugal pump.
 - 4.2.5.10.2 It shall be capable of delivering 15 m³/h against a pressure of 250 kPa.
 - 4.2.5.10.3 It shall be connected to draw from the sea, bilge mains, bilges direct, fore peak and chain locker.
 - 4.2.5.10.4 It shall be connected to discharge directly overboard and to the wash deck line.
 - 4.2.5.10.5 It shall be constructed of bronze casing and impeller with sea water resistant stainless steel shaft and packed glands.
 - 4.2.5.10.6 A compound pressure gauge shall be provided and be connected through a switch cock to the suction and discharge sides of the pump.
- 4.2.5.11 GENERAL SERVICE PUMP
 - 4.2.5.11.1 One general service pump, identical in all respects to the bilge pump shall be installed.
 - 4.2.5.11.2 The suction side shall be connected as detailed in clause 4.2.5.10.3 but in addition a connection to the freshwater main shall be provided.
 - 4.2.5.11.2.1 The connection to the freshwater tanks shall be fitted with a bronze screw lift valve and spectacle plate.
 - 4.2.5.11.3 The discharge side shall be connected as detailed in clause 4.2.5.10.4
 - 4.2.5.11.4 A gauge as detailed in clause 4.2.5.10.6 shall be provided.
- 4.2.5.12 FRESH WATER DOMESTIC SUPPLY
 - 4.2.5.12.1 Electrically driven mono-type pumps, in conjunction with "Hydrophore" or similar pressure systems shall be installed for the domestic, fresh and salt water sanitary, supply systems.
 - 4.2.5.12.2 The pressure tanks shall be of the bladder type.
 - 4.2.5.12.3 The pressure shall be controlled by an adjustable pressure switch.
 - 4.2.5.12.4 Each pump and motor shall be mounted on a common baseplate.
 - 4.2.5.12.5 Each pump shall be fitted with a bronze S.D.N.R. suction valve, close to the pump.
 - 4.2.5.12.5.1 A screw down "snifter" valve shall be fitted between the valve mentioned above and the pump.
- 4.2.5.13 FUEL OIL TRANSFER PUMP
 - 4.2.5.13.1 An electric motor driven gear type fuel oil transfer pump shall be installed in the engine room.

- 4.2.5.13.2 The capacity of the pump shall be approximately 5 m³/h.
- 4.2.5.13.3 The pump shall be connected to enable fuel to be transferred between all fuel tanks in any combination.
- 4.2.5.13.4 The pump and motor shall be mounted on a common baseplate fitted with a spill tray.
- 4.2.5.13.5 The materials used in the pump shall be suitable for their application.
- 4.2.5.13.6 If no double bottom tanks are used then this pump would be used to pump overboard through a deck connection.

4.2.5.14 FUEL OIL PURIFIER

- 4.2.5.14.1 One Fuel Coalesces capable of treating not less than 500 litres/hour of diesel. Type CJC or similar.
- 4.2.5.14.2 The coalescer shall be fitted with an attached gear type transfer pump and automatic blow down operation.
- 4.2.5.14.3 The piping shall be arranged to draw from either fuel tank and discharge to either daily service tank.

4.2.5.15 CALORIFIER

- 4.2.5.15.1 A thermostatically controlled electric domestic type water heater to be installed.
- 4.2.5.15.2 It shall supply hot water to shower, washbasin, and galley sink.
- 4.2.5.15.3 It shall preferably be mounted in the engine room.

4.2.5.16 ALTERNATORS

- 4.2.5.16.1 Two identical diesel engine driven alternator sets shall be installed.
- 4.2.5.16.2 They are to be of sufficient capacity that one of the sets is capable of meeting the maximum normal electrical load of the workboat.
 - 4.2.5.16.2.1 It should be noted that the capstan is considered to be a normal shipping requirement and the tenderer must include this load in the power requirements.
- 4.2.5.16.3 The sets are to be seated on resilient mountings.
- 4.2.5.16.4 The two sets shall be capable of being run in parallel.
- 4.2.5.16.5 Tenderers must submit a schedule of the loads and diversity factors on which the capacity of the proposed alternator sets are based.
- 4.2.5.16.6 For full particulars of the diesel engines and alternators see clause 4.2.6 "Diesel Engines" and clause 4.2.7 "Electrical" of this specification.

4.2.5.17 SPARES

- 4.2.5.17.1 The following shall be supplied and included in the tender price:
 - i. One tail shaft with identical tapers on both ends.

- ii. One Port propeller.
- iii. One Stbd propeller.
- iv. Spare parts required according to class recommendation

4.2.5.18 SPECIAL TOOLS

4.2.5.18.1 All tools of a specialized nature, peculiar to the machinery installed and required for its maintenance shall be provided.

4.2.5.19 COMPRESSOR

4.2.5.19.1 An electric motor driven, reciprocating, water cooled air compressor shall be fitted in the engine room.

4.2.5.19.1.1 An option would be fit an air cooled continuous rated compressor of the required capacity.

4.2.5.19.2 The capacity of the compressor shall be approximately 17 litres/s free air at 650kPa gauge pressure.

4.2.5.19.3 flow switch and audible alarm to indicate insufficient cooling water flow shall be installed and be mounted near the compressor.

4.2.5.19.3.1 It shall be connected to the 24 volt essential services supply and be arranged to automatically reset when the compressor is started.

4.2.5.19.4 4 An automatic unloader, preferably acting on the inlet valve of the compressor shall be provided.

4.2.5.19.5 An all welded air receiver with a capacity of approximately 500 litres is required.

4.2.5.19.5.1 The construction of the receiver shall fully comply with the Classification Society's requirements.

4.2.5.19.5.2 In addition if the capacity of the receiver offered is 500 litres or less, the following requirements of Transnet must be complied with.

4.2.5.19.5.2.1 The receiver shall be designed to with-stand at least five times the authorized maximum working pressure.

4.2.5.19.5.2.2 The air receiver is to be fitted with Man Holes for inspection and cleaning purposes.

4.2.5.19.5.2.3 The ends of the receiver shall be at least as thick as the shell plate.

4.2.5.19.5.2.4 The receiver shall be supplied with a Lloyds certificate for hydraulic test.

4.2.5.19.6 The compressed air is required to raise the buoys mentioned in clause 4.2.2.1.6.2 as these as submerged when not in use.

4.2.5.19.6.1 In addition filtered compressed air is required for direct supply to divers whilst using wet suits and for the charging of diver's air bottles.

4.2.5.19.7 Special attention shall be afforded to the inlet air filter of the compressor. It shall be clear of all engine breathers, exhaust pipes or other sources of air contamination.

4.2.5.19.8 The discharge from the air receiver shall be connected as follows:

- i. A pipeline with a N.B. of 19mm led to an approved type isolating valve mounted according to SANS standard.

- ii. A pipeline with N.B. of 19mm led to purification equipment necessary to purify the air to a standard fit for human consumption and through a reducing valve to a manifold fitted with two 12mm approved isolating valves mounted according to SANS standard.

4.2.5.19.9 A pressure gauge shall be provided on the discharge manifold.

4.2.5.19.10 The reducing valve required in clause 4.2.5.19.8 ii shall be of the best quality and be capable of supplying sufficient volume of air to satisfy two divers.

4.2.5.19.11 It shall be capable of reducing the air pressure from full receiver pressure to zero in stepless and infinite stages.

4.2.5.19.12 The motor and compressor shall be mounted on a common baseplate.

4.2.5.19.13 Full details of the installation including filtration equipment must be supplied at the tendering stage.

4.2.5.19.14 The attached questionnaire is to be completed at the tendering stage.

4.2.6 DIESEL ENGINES

A follow up by the tenderer with the subcontractor is to be done with regards to the diesel engines supplied. The diesel engines and generators have been identified by the previous contractor for installation and specifications used for fitment into engine room for main engines and generators. Bases for engines have been fitted in engine room as per specifications for installations.

4.2.6.1 MAIN PROPULSION DIESEL ENGINES

- 4.2.6.1.1 A full torsional vibration analysis must be carried out for the complete drive train and the results submitted to the Senior Marine Engineer.
- 4.2.6.1.2 The torsional vibration characteristics of the engines must be such that the critical speeds at which stress limits would be exceeded must be avoided within the speed range for continuous operation. The Tenderer must advise Transnet National Ports Authority regarding this aspect. (See also clause 4.2.5.2)
- 4.2.6.1.3 Each engine and its components and parts must be readily and easily accessible for inspection, adjustment, maintenance and change out of components. (See also clause 4.2.5.1.2.1)
- 4.2.6.1.3.1 The engine seating's must be well distributed so as to spread the mass evenly over the floors and girders and must be rigid and securely attached to the main hull. Dowels and wedge tightening stoppers must be fitted to the thrust end of each engine and gearbox. (See also clause 4.2.5.4.2).
- 4.2.6.1.3.2 Resin type chocks "Chockfast" or similar are acceptable. Tenderer must supply full details at the tendering stage.
- 4.2.6.1.4 Adequate provision shall be made for turning over the engines by hand for maintenance purposes. A "kick out" type bar shall be supplied and be stowed in a bracket at each engine.
- 4.2.6.1.5 Each engine shall be fitted with a shutdown solenoid operating on the fuel rack to enable the engine to be shut down from the wheelhouse and at the engine. (See also clause 4.2.4.2.1.2)
- 4.2.6.1.6 Tenderers must advise what steps will be taken to obviate the possibility of lubricating oil being contaminated with fuel oil.
- 4.2.6.1.7 VOID
- 4.2.6.1.8 Lubrication
- 4.2.6.1.8.1 Each engine shall have a wet sump pressure fed lubrication system to ensure efficient lubrication for all inclinations of the craft from normal which may occur in service.
- 4.2.6.1.8.2 An engine mounted, direct driven lubricating oil pump shall be provided for each engine.
- 4.2.6.1.8.3 Dual full-flow oil filters shall be fitted between the engines and the lubricating oil pumps to allow uninterrupted engine operation during changing of one filter element.
- 4.2.6.1.8.3.1 Each filter shall be fitted with a reliable disposable type element suitable for use with detergent type oils.
- 4.2.6.1.8.3.2 The filters shall incorporate a by-pass system to ensure a full flow of oil is available to the engine should the filter become choked.
- 4.2.6.1.8.3.3 A visual mechanical indication as to the condition of the filters shall be provided. A "before" and "after" pressure gauge system is acceptable.

Full details are to be submitted with the tender.

4.2.6.1.8.4 Each engine shall be fitted with a thermostatically controlled oil cooler, with manual Override.

4.2.6.1.8.5 Adequate provisions for easy draining of the oil shall be provided.

4.2.6.1.9 Engine Cooling

4.2.6.1.9.1 The engines shall have closed circuit cooling systems employing keel cooling type heat exchangers, one for each engine.

4.2.6.1.9.2 The keel coolers shall be of an approved make and be mounted so as to minimize accidental damage consequent to debris or grounding.

Full details and the proposed mounting position shall be indicated at the tendering stage. Materials used in the construction of the keel coolers including the outboard piping shall be sea water resistant and must be stated at the time of tendering.

- 4.2.6.1.9.2.1 The tender should note that the sea temperature varies between 17°C and 23°C.
- 4.2.6.1.9.3 A direct driven, self – priming, centrifugal primary cooling water circulating pump shall be provided for each engine.
- 4.2.6.1.9.4 One electric motor driven primary cooling water circulating stand- by pump shall be Provided.
- 4.2.6.1.9.4.1 Piping shall be arranged to enable the pump to serve either engine.
- 4.2.6.1.9.4.2 The pump and motor shall be mounted on a common base plate.
- 4.2.6.1.9.5 The pumps shall be constructed of bronze casing and impeller with stainless steel shafts.
- 4.2.6.1.9.6 A separate recirculating balancing tank complete with facilities for addition of water treatment chemicals shall be provided for each engine.
- 4.2.6.1.9.7 A thermostatically controlled by-pass valve of the “Serck” type having fails safe features and a manual emergency control shall be fitted to the primary (engine) water outlet pipe.
- 4.2.6.1.9.8 No aluminium, aluminium alloy or other metal which may be affected by the cooling water shall be used in the construction of the cooling system.
- 4.2.6.1.9.9 The primary (engine) water circuits shall employ treated water.
- 4.2.6.1.9.10 The oil coolers maybe connection in series with the keel cooler (between cooler and inlet to diesel engine) but must be fitted with a thermostatically controlled valve. (See also clause 4.2.6.1.8.4)
- 4.2.6.1.10 Engine Starting
- 4.2.6.1.10.1 The engines shall be arranged for electric starting.
- 4.2.6.1.10.2 The starting controls shall be at the engine only.
- 4.2.6.1.10.3 The starter batteries shall be positioned in the engine room.
- 4.2.6.1.10.3.1 Each engine shall be supplied by its own batteries and these shall be so arranged that either engine can be started from either battery bank.
- 4.2.6.1.11 Instruments and Gauges
- 4.2.6.1.11.1 Pyrometers and/or thermometers shall be provided for each engine for indicating temperature as follows:
- i. Fresh water outlet – at engine and on wheelhouse console (See also clause 4.2.4.2.1.7).
 - ii. Lubricating oil inlet – at engine.
 - iii. Exhaust
 - (a) at inlet to turbocharger
 - (b) at outlet of turbocharger

4.2.6.1.11.2 Pressure gauges shall be provided for each engine to indicate pressure as follows:

- i. Lubricating oil – at engine and on wheelhouse console (see also clause 4.2.4.2.1.6)
- ii. Fresh water – at engine

4.2.6.1.11.3 If a turbocharger is fitted, a manometer shall be provided between the filter and compressor to indicate the condition of the filter.

4.2.6.1.11.4 All pressure gauges shall be of the glycerine filled type.

4.2.6.1.11.5 An hourmeter, to operate from start to stop of engine, shall be installed for each engine.

4.2.6.1.11.6 A revolution counter for each engine at the engine and on the wheelhouse console. (See also clause 4.2.4.2.1.4).

4.2.6.1.11.7 Local gauge consoles to be mounted on the inboard station of each engine.

4.2.6.1.12 Engine Protection

The following protection shall be provided for each engine:

- i. Fresh water temperature high – visual- audible at engine and on wheelhouse console. (See also clause 4.2.4.2.1.7).
- ii. Lubricating oil pressure low-visual-audible at engine and on wheelhouse console. (See also clause 4.2.4.2.1.6).
- iii. Lubricating oil pressure excessively low- shut down
- iv. Engine overspeed – shut down

4.2.6.1.13 Exhaust System

4.2.6.1.13.1 An efficient exhaust and silencer system shall be provided for each engine.

4.2.6.1.13.2 The system shall be adequately supported on approved mountings.

4.2.6.1.13.3 Best quality expansion bellows and all other necessary equipment shall be supplied. (See also clauses 4.2.3.48).

4.2.6.1.14 Technical Data Sheet

4.2.6.1.14.1 Tenderers must submit full information on diesel engines offered as per attached questionnaire.

4.2.6.2 ALTERNATOR SETS

4.2.6.2.1 Two identical electric generating sets, each comprising an alternator and a diesel engine, have been ordered by the previous contractor. Alternator to produce at least 30KVA, but must also have some spare capacity.

4.2.6.2.2 Each alternator and engine shall be mounted on a common baseplate and be supported on resilient mountings.

4.2.6.2.2.1 As detailed in clause

4.2.6.2.3 Engine starting

4.2.6.2.3.1 The engines shall be arranged for electric starting.

4.2.6.2.3.2 The starting controls shall be at the engine only.

4.2.6.2.3.3 The starter batteries shall be positioned in the engine room.

4.2.6.2.3.3.1 Each engine shall be supplied by its own batteries and these shall be so arranged that either engine can be started from either battery bank.

4.2.6.2.4 Instruments and Gauges

4.2.6.2.4.1 Thermometers shall be provided for each engine to indicate temperature as follows:

- i. Fresh water outlet- at engine (see also clause 4.2.4.2.1.10)

4.2.6.2.4.2 Pressure gauges shall be provided for each engine to indicate pressure as follows:

- i. Lubricating oil- at engine (see also 4.2.4.2.1.9)
- ii. Fresh water – at engine

4.2.6.2.4.3 As detailed in clause 4.2.6.1.11.4.

4.2.6.2.4.4 As detailed in clause 4.2.6.1.11.5.

4.2.6.2.4.5 A running light shall be provided for each engine and be mounted on the wheelhouse console. (See also clause 4.2.4.2.1.8)

4.2.6.2.5 Engine Protection

4.2.6.2.5.1 The following protection shall be provided for each engine as per specified by the manufacturer:

- i. Fresh water – high – visual/audible at engine and on wheelhouse console. (See also clause 4.2.4.2.1.10)
- ii. Lubricating oil pressure – low – visual/audible at engine and on wheelhouse console. (See also clause 4.2.4.2.1.9)
- iii. Lubricating oil pressure excessively low- shut down.

4.2.6.2.6 Exhaust System

4.2.6.2.6.1 As detailed in clause 4.2.6.1.13.1

4.2.6.2.6.2 As detailed in clause 4.2.6.1.13.2

4.2.6.2.6.3 As detailed in clause 4.2.6.1.13.3

4.2.6.2.7 Technical Data Sheet

4.2.6.2.7.1 As detailed in clause 4.2.6.1.14.1

DETAILS REQUIRED		PROPULSION ENGINES	GENERATING SET ENGINES
	Makers Name or Make of Engine		
(a)	Type and Model		
(b)	Rated Output		
(c)	Rated Speed (r/min)		
(d)	No. and Arrangement of Cylinders		
(e)	Bore and Stroke (mm)		
(f)	Piston Displacement (cm ³)		
(g)	Piston Speed and Rated Speed (M/s)		
(h)	Compression Ration (nominal)		
(i)	Fuel Consumption (full load) G/kWh		
(j)	Lubrication Oil Consumption (l/h)		
(k)	Cyclic Variation at Rated Speed		
(l)	Cooling System		
(m)	Lubrication System		
(n)	Starting System		
(o)	Is Engine still in Production?		
(p)	Availability of Spares		
(q)	Mass of Engine, Complete		
(r)	Mass of Heaviest Part		
(s)	Make of Turbo Charger (if fitted)		
(t)	Turbo Charger Cooling (if fitted)		
(u)	Air Intercooler (if fitted)		
	REMARKS, ADDITIONAL INFORMATION, ETC.		

DETAILS REQUIRED		PROPULSION ENGINES	GENERATING SET ENGINES
	Makers Name or Make of Engine		
(a)	Type and Model		
(b)	Rated Output		
(c)	Rated Speed (r/min)		
(d)	No. and Arrangement of Cylinders		
(e)	Bore and Stroke (mm)		
(f)	Piston Displacement (cm ³)		
(g)	Piston Speed and Rated Speed (M/s)		
(h)	Compression Ration (nominal)		
(i)	Fuel Consumption (full load) G/kWh		
(j)	Lubrication Oil Consumption (l/h)		
(k)	Cyclic Variation at Rated Speed		
(l)	Cooling System		
(m)	Lubrication System		
(n)	Starting System		
(o)	Is Engine still in Production?		
(p)	Availability of Spares		
(q)	Mass of Engine, Complete		
(r)	Mass of Heaviest Part		
(s)	Make of Turbo Charger (if fitted)		
(t)	Turbo Charger Cooling (if fitted)		
(u)	Air Intercooler (if fitted)		
	REMARKS, ADDITIONAL INFORMATION, ETC.		

DETAILS REQUIRED		PROPULSION ENGINES	GENERATING SET ENGINES
	Makers Name or Make of Engine		
(a)	Type and Model		
(b)	Rated Output		
(c)	Rated Speed (r/min)		
(d)	No. and Arrangement of Cylinders		
(e)	Bore and Stroke (mm)		
(f)	Piston Displacement (cm ³)		
(g)	Piston Speed and Rated Speed (M/s)		
(h)	Compression Ration (nominal)		
(i)	Fuel Consumption (full load) G/kWh		
(j)	Lubrication Oil Consumption (l/h)		
(k)	Cyclic Variation at Rated Speed		
(l)	Cooling System		
(m)	Lubrication System		
(n)	Starting System		
(o)	Is Engine still in Production?		
(p)	Availability of Spares		
(q)	Mass of Engine, Complete		
(r)	Mass of Heaviest Part		
(s)	Make of Turbo Charger (if fitted)		
(t)	Turbo Charger Cooling (if fitted)		
(u)	Air Intercooler (if fitted)		
	REMARKS, ADDITIONAL INFORMATION, ETC.		

4.2.7 ELECTRICAL

4.2.7.1 GENERAL

4.2.7.1.1 The following regulations and standards are referred to in this Section:

- (a) The requirements of the South African Maritime Safety Authority
- (b) Regulations for the Electrical Equipment of Ships, issued by E.E.I London
- (c) South African Bureau of Standards SABS 156, SABS 164 , SABS 129 ,SABS 948
- (d) Lloyd Register of Shipping
- (e) British Standards BS 159, BS 372, BS 587, BS 862, BS 2757, BS 2949, BS 3399, BS 3979, BS 5000
- (f) (F) should any of these regulations have been superceded, then the latest will apply

4.2.7.1.2 Where equipment offered complies with the recognized standard of the country of manufacturer and not specifically with the standards required by this section of the specifications, such equipment will be considered at the discretion of Transnet National Ports Authority. In such cases Tenderers shall state fully all respects in which the equipment offered departs from the standard as laid down.

4.2.7.1.3 All electrical equipments shall comply strictly with the following requirements except where otherwise specified in this Section.

4.2.7.1.3.1 Regulations for the electrical equipment of ships – The Institute Of Electrical Engineerings (London)

4.2.7.1.3.2 The relevant standards issued by the South African Bureau of Standards and or British Standards Institution, in the case of any equipment not covered by the preceding regulations

4.2.7.1.4 All equipment shall be arranged to function satisfactorily under all permissible Condition of transverse and longitudinal inclination, under such conditions of vibration and shock as are likely to occur in practice.

4.2.7.2 SYSTEMS OF SUPPLY

4.2.7.2.1 General

4.2.7.2.1.1 The block schematic forming Annexure A of this Section shows the proposed generating and distribution system of the workboat. A fully working total priced system is to be offered. Alternative arrangements will be considered but the voltages of the alternating and direct current systems specified above must be used as these are the standard voltages in use in the Republic of South Africa.

4.2.7.2.1.2 Tenderers shall describe in detail their proposed power supply arrangements, and submit a load schedule indicating how the power requirements will be met under normal and abnormal conditions.

4.2.7.2.1.3 All electrical boards are to comply with NOSA by having independent lock out facilities.

4.2.7.2.2 Generation and primary Distribution

The primary supply shall be derived from two diesel alternator sets of equal capacity feeding a 400 volt, 50 Hz. 3 phase, 3 wire, insulated system. All motors for pumps, capstans, etc., shall be connected to the primary distribution.

4.2.7.2.3 Shore Supply

4.2.7.2.3.1 On occasions it will be necessary to supply the vessel from a 380 volt, 50 Hz, 3 phase, 3 wire earthed shore supply by means of a 4 core cable, one core being the earth connection between ship and wharf.

4.2.7.2.3.2 A shore supply connection box, prominently labelled, shall be provided and be mounted against the port side after superstructure casing.

4.2.7.2.3.2.1 Brackets for stowage of the cable and plug shall be provided close to the box. Details will be supplied during construction.

4.2.7.2.3.2.2 The box shall be:

(a) Fabricated of sea water resistant stainless steel, including hinges, toggle bolts, etc.

(b) Watertight

(c) Provided with provision for padlocking.

4.2.7.2.3.2.3 The terminals shall be of ample size and of such form as to enable the conductors to be effectively clamped therein by wingnuts. Three phase terminals and one earthing terminal are to be provided.

4.2.7.2.4 Secondary Distribution

The secondary distribution shall be of 230 volts, 50 Hz, 3 phase, 3 wire, insulated system supplied by transformers off the primary distribution. The main lighting, plug points, water heaters, hot plates and the supply for the communication system shall be connected to the secondary distribution.

4.2.7.2.5 Essential Supply Distribution

A nominal 24 V direct current, 2 wire, insulated system, fed from the primary distribution system through dual transformer/rectifier sets shall be provided.

This supply is required for certain essential services, e.g. a certain number of corridor, engine room and the navigational lights.

A floating nickel-cadmium battery for essential services supply only shall be connected to the system in order to maintain supply for a period of at least 3 hours in event of mains failure.

Two identical transformer/rectifier sets shall be provided to maintain the battery in a fully charged state. Each transformer/rectifier set shall be capable of supplying the total power required by this distribution system plus the power necessary to recharge the battery, the second set being a standby. However, the two sets shall be capable of working in parallel sharing the load.

4.2.7.2.6 Hand Lamp Supply

A 32 V, 50Hz, single phase, 2 wire, insulated system shall be provided for hand lamps by means of individual, double wound transformers fed from the secondary distribution.

4.2.7.3 EARTH FAULT INDICATOR

4.2.7.3.1 All three distribution systems, i.e. primary, secondary and essential services, shall be equipped with an ohm-meter for indication of the insulation level to earth. One instrument with selector switch for connection to the three systems is acceptable.

4.2.7.4 ELECTRICAL EQUIPMENT

4.2.7.4.1 All electrical equipment shall be effectively protected from the effects of adverse weather, driving rain, drip, salt spray, oil and grease.

4.2.7.4.2 All "Live" parts shall be suitably enclosed to avoid inadvertent contact. Provision for locking all control and contactor panels, etc., housing all 400 volt, 230/220 volt and 24 volt equipment shall be provided to prevent unauthorized access to live equipment.

4.2.7.4.3 All material which is not inherently moisture and corrosion resistant shall be specially treated to resist the corrosive and other harmful effects of a moist, saline atmosphere. The equipment will be operated in conditions of extremely high humidity and this should be especially considered in relations to coil and motor windings, etc.

4.2.7.5 ALTERNATORS

4.2.7.5.1 The alternators shall be of such capacity that if one alternator is disconnected, the remaining alternator shall be capable of supplying the total electrical requirements of the workboat, reflected on the load schedule mentioned in clause 4.2.7.5.1.1 below.

4.2.7.5.1.1 A tabulated list of machine and equipment ratings and required capacities together with diversity factors and total required capacities of generating sets, shall be submitted in the form of a load schedule when tendering. See clause 4.2.7.2.1.2

4.2.7.5.2 The sets shall be arranged to operate in parallel and shall share the active and reactive power proportionally to their rated kVA within 5% of the rated kVA of one machine when operating at 0,8 power factor.

4.2.7.5.3 The alternators shall preferably be of the self excited, inherently self-regulated type, or may be of the separately excited with automatic voltage regulator type. Full details, together with records of service experience of similar alternators shall accompany the tender.

4.2.7.5.4 The alternators shall comply with the relevant clauses of BS 2949.

4.2.7.5.5 On steady conditions the voltage regulation shall comply with clause 42a of BS 2949. On transient conditions the voltage regulation shall comply either with clause 42b(i) or 42b(ii) of BS 2949, whichever is applicable to the condition in which one alternator is disconnected.

Tenderers shall state:

- (a) With which of the above clauses the regulation complies.
- (b) Which motors have been considered to be liable to be started simultaneously.
- (c) Whether the electrical installation could be damaged by a transient rise in voltage from the alternators exceeding 76 V.

- 4.2.7.5.6 The alternators shall have the same rating and shall be identical machines having completely interchangeable spares.
- 4.2.7.5.7 The insulation of the windings of the alternators and exciters if exciters are required shall be Class "B" as defined in BS 2757, or better.
- 4.2.7.5.8 The temperature rise of the windings for continuous full load operation of the alternators under rated conditions shall not exceed the limits laid down in BS 2949.
- 4.2.7.5.9 The alternator and exciter windings shall be specially impregnated for use in moist slat-laden atmospheric conditions, and all insulation shall be designed to avoid "tracking" under these conditions.
- 4.2.7.5.10 The alternators shall be of the screen protected, drip proof, enclosed, ventilated, continuously rated, marine type.
- 4.2.7.5.11 The alternators shall be of the two bearing roller and/or ball type. Suitable means shall be provided to prevent the lubricant gaining access to the insulation of the alternators or any live part thereof.
- 4.2.7.5.12 Over temperature, overload and abort circuit protection shall be provided.
- 4.2.7.5.13 The neutral points of the alternators shall be unearthed.
- 4.2.7.5.14 If brushes are used suitable covers shall be provided on all alternators to permit easy access to brush gear for inspection and maintenance purposes. Brush holders shall be of the box type.
- 4.2.7.5.15 The engine and alternator shall be mounted on a common bedplate and shall be direct coupled by means of a flexible coupling.

The bedplate shall be sufficiently rigid to obviate mis-alignment of the set which may be caused by stressed set due to movement of the craft, and in turn is to be fitted on anti-vibration mountings.

- 4.2.7.5.16 All exposed moving parts on the set shall be protected by means of guards.
- 4.2.7.5.17 Built in heaters shall be supplied on all alternators. The heaters are to be arranged to be switched on when the alternators are not running.

4.2.7.6 MAIN SWITCHBOARD

- 4.2.7.6.1 The main switchboard shall consist of the alternators control and paralleling equipment, 400 volt primary distribution and shore supply equipment. The switchboard shall be mounted in the engine room, in a well ventilated accessible position. The switchboard shall be so placed as not to be exposed to risk of mechanical damage or to damage from water or oil.
- 4.2.7.6.2 The clearance behind and around the switchboard shall comply with Lloyd's Regulations.
- 4.2.7.6.3 The switchboard shall be of the dead front type, and shall be mounted on rigid steel support. It shall be sectioned into cubicles with insulated material and each section of equipment will be fed from a separate cubicle.
- 4.2.7.6.4 The arrangement of all parts shall be as simple and symmetrical as possible, and such that the function of each is obvious. All parts, including connections, shall be readily accessible.
- 4.2.7.6.5 All indicating instruments, and apparatus controls shall be clearly labeled. Each fuse holder shall be indelibly labeled and shall be marked with its rating
- 4.2.7.6.6 Each circuit breaker for this board shall be adequately rated for its duty, and shall be of the free – handle type, with fully adjustable over current trips, having inverse time lag features.
- 4.2.7.6.7 All busbars and busbar connections shall comply with the requirements of the appropriate clauses of British Standard No. 159, except that aluminium shall not be used.
- 4.2.7.6.8 The following minimum equipment shall be mounted on the main switchboard:
- 4.2.7.6.8.1 Each Alternator set
- 4.2.7.6.8.1.1 One triple pole circuit breaker One triple pole isolator unless the circuit breaker is of the "rack –out" type
- 4.2.7.6.8.1.2 One reverse power relay or combined over current and reverse power relay
- 4.2.7.6.8.1.3 One ammeter with selector switch.
- 4.2.7.6.8.1.4 One volt meter with selector switch.
- 4.2.7.6.8.1.5 One kilowatt meter with selector switch.
- 4.2.7.6.8.1.6 One frequency meter.
- 4.2.7.6.8.1.7 Automatic voltage regulator if the alternator is of the separately excited type.
- 4.2.7.6.8.2 400 Volt Distribution System
- 4.2.7.6.8.2.1 One 400 volt triple pole circuit breaker for the three single phase transformers of the secondary distribution system
- 4.2.7.6.8.2.2 Two 400 volt triple pole circuit breaker for the essential supply distribution system
- 4.2.7.6.8.2.3 Triple pole circuit breaker for primary distribution outgoing circuits

- 4.2.7.6.8.2.4 One voltmeter with selector switch
- 4.2.7.6.8.2.5 One frequency meter
- 4.2.7.6.8.2.6 Earth fault indication ohmmeter
- 4.2.7.6.8.3 Shore Supply
 - 4.2.7.6.8.3.1 One 380 volt, triple pole circuit breaker
 - 4.2.7.6.8.3.2 One 380 volt, triple pole isolator
 - 4.2.7.6.8.3.3 Voltmeter with selector switch
 - 4.2.7.6.8.3.4 Ammeter with selector switch
 - 4.2.7.6.8.3.5 Phase rotation indicator clearly and indelibly marked by an arrow indicating the correct phase rotation.
 - 4.2.7.6.8.3.6 Phase rotation change over switch
- 4.2.7.6.8.4 Miscellaneous
 - 4.2.7.6.8.4.1 Generating plant control equipment and instruments for synchronizing shall be mounted in a convenient position.
 - 4.2.7.6.8.4.2 One voltmeter and frequency meter shall be provided with a selector switch to enable them to be connected to any alternator or the alternator side of the alternator circuit breaker.
 - 4.2.7.6.8.4.3 One essential services battery ammeter, which indicates when this system is being supplied by the battery shall be provided.
- 4.2.7.7 SECONDARY DISTRIBUTION BOARD
 - 4.2.7.7.1 A Separate but matched board shall be provided in the engine room for the secondary 230 V, 3 wire, insulated system. The board shall be of similar construction and type as the main board specified under clause 4.2.7.6 above.
 - 4.2.7.7.2 The following minimum equipment shall be mounted on the board:
 - (a) Triple pole isolator for main supply
 - (b) Double or triple pole moulded case circuit breakers for outgoing circuits
 - (c) One ammeter with selector switch
 - (d) One voltmeter with selector switch
 - (e) Earth fault indication ohm-meter
- 4.2.7.8 ESSENTIAL SERVICES DISTRIBUTION BOARD
 - 4.2.7.8.1 The battery and a separate main board for this system shall be provided.

The board shall be of similar construction and type as the main board specified under clause 4.2.7.6 above.

4.2.7.8.2 The following minimum equipment shall be mounted on the board:

- (a) Incoming Supply:
- (b) Two 24 V double pole isolators
- (c) One ammeter
- (d) One 0 – 30 V voltmeter
- (e) One double pole isolator for isolation of battery charger

4.2.7.8.3 Battery

- (a) One 24 V, double pole circuit breaker
- (b) One voltmeter
- (c) Double pole moulded case circuit breakers for outgoing circuits
- (d) Earth fault indication ohmmeter

4.2.7.9 SUB-DISTRIBUTION BOARDS

- 4.2.7.9.1 Where required for any voltage system sub-distribution boards shall be provided
- 4.2.7.9.2 Sub-distribution boards shall be mounted in robust metal-clad cases with hinged front covers. If accessible to unskilled personnel the doors shall be provided with catches operated by a suitable key.
- 4.2.7.9.3 The interior of the front cover of each sub-distribution board shall be provided with a suitable diagram under transparent plastic indicating the designation of each circuit. The appropriate size of fuse element for each H.R.C. cartridge fuse, and the correct setting for each circuit breaker, shall be indelibly marked on the diagram. If fuses are to be employed only H.R.C. cartridge fuses shall be used.
- 4.2.7.9.4 Triple pole or double pole moulded case circuit breakers to the requirements of SABS 156 shall be installed in sub-distribution boards.
- 4.2.7.9.5 All sub-distribution boards shall be located in accessible positions, but should not be exposed to risk of mechanical injury or damage from water or oil. Where they are exposed to the weather, to drip or to excessively moist atmosphere, they shall be of the weather-proof type.

4.2.7.10 TRANSFORMERS

- 4.2.7.10.1 The transformers for the shore supply and for the secondary and the essential supply distribution shall comply with BS 3399, and Section 12 of the Regulations issued by the Institute of Electrical Engineers.
- 4.2.7.10.2 Three, single phase, step-down transformers from primary to secondary distribution are required and shall be connected in delta on both the high and low tension sides. It shall be possible to carry the total load on the secondary distribution system with one transformer disconnected.

4.2.7.11 WIRING SYSTEM

- 4.2.7.11.1 All wiring shall be executed in multi-core cable.
- 4.2.7.11.2 All cables shall be of a flame-retarding heat resistant type.
- 4.2.7.11.3 At all points where cables pass through bulkheads or decks, or enter equipment casings or fittings, suitable gland bushings or watertight compound filled boxes shall be provided. (See clause 4.2.3.32)
- 4.2.7.11.4 All cables shall be securely strapped to galvanized cable trays. Conduits shall not be used in the installation.
- 4.2.7.11.5 Tenderers shall supply full details of the types of cables offered in all cases.
- 4.2.7.11.6 In areas where excessive temperatures are liable to be experienced the cables or wires used shall be suitable for this application.
- 4.2.7.11.7 The metallic structure of the craft shall not be used for any return circuit under normal healthy circuit conditions.

4.2.7.12 CIRCUIT BREAKERS

- 4.2.7.12.1 Circuit breakers for the main and secondary distribution boards shall preferably be of the air break, rack out type. Each tenderer shall submit full technical details including making and breaking capacities of breakers offered.

4.2.7.12.2 Circuit breakers shall comply with the requirements of BS 862.

4.2.7.13 ELECTRIC MOTORS

4.2.7.13.1 The minimum degree of enclosure for motors used throughout the vessel shall be watertight and screen protected drip-proof, respectively, as defined in BS 2949.

4.2.7.13.2 Suitably enclosed electric motors of ample rating for their respective duties shall be provided.

4.2.7.13.3 All motors rated above 750 W shall comply with the relevant clauses of BS 2949. All motors rated below 750 W shall have performances complying with BS 5000 part 2.

4.2.7.13.4 The dimensions of 3 phase motors with ventilated enclosures shall comply with SABS 948.

4.2.7.13.5 The dimensions of 3 phase, totally enclosed, fan cooled motors shall comply with SABS 948 or BS 3979.

4.2.7.13.6 The material used in the construction of the commutators/sliprings and brush gear including the brush springs, shall be corrosion resistant. The insulation of the commutators/sliprings and brush gear shall be non-hygroscopic and specially designed to avoid "tracking" due to deposition of saline moisture.

4.2.7.13.7 Brush holders shall be of the box type. Suitable covers shall be provided on all motors to permit easy access to brush gear for inspection and maintenance purposes.

4.2.7.13.8 All auxiliary motors shall be readily accessible for maintenance purposes and be easy to replace when necessary.

4.2.7.13.9 All motors above 1 kW shall have the bearing data of the motor clearly indicated on a substantial non-corrodible plate fixed to the motor frame.

4.2.7.13.10 All motors 5 kW and above shall be provided with built-in heaters or low voltage heating. The heaters are to be arranged to be switched on when the motors are not running.

4.2.7.13.11 In the case of A.C. motors, motors manufactured in South Africa will be preferred.

4.2.7.13.12 All phase motors are to be rated at 380 V.

4.2.7.14 MOTORS STARTERS AND CONTROLLERS

4.2.7.14.1 For motors of up to and including 10 kW manual starters or controllers may be provided. For larger motors automatic starter gear must be provided.

4.2.7.14.2 The type of starters shall be:

"Direct-on" for motors with a calculated, direct-on, instantaneous starting current not exceeding 140 amps.

"Star -Delta" for motors with a calculated, direct-on, instantaneous starting current exceeding 140 amps.

4.2.7.14.3 Starters for 380 V, 3 phase motors shall each be fitted with under-voltage and single phasing protection and 3 overload releases. However, under voltages protection is not required on starters of direct starting motors.

4.2.7.14.4 Contacts and contact fingers shall be of substantial construction and easily renewable. Provision shall be made to prevent "tracking" across insulation. All contactor equipment shall be totally enclosed in a metal housing having a hinged lockable door or lockable "lift-off" covers.

4.2.7.14.5 Each controller or starter shall be labelled as per clause 4.2.7.6.5 clearly indicating the motions controlled and the direction of motion relative to the neutral "off" position.

4.2.7.14.6 A diagram of connections of each motor and controller or starter shall be affixed inside the door of the contactor panel concerned. This shall be protected by a transparent plastic cover, or other suitable means, to preserve it.

4.2.7.15 STARTER RESISTANCE

4.2.7.15.1 Where resistance starters are used the resistances shall be of the heavy duty pressed, unbreakable, non-corrodible grid type, and each section shall be housed in a separate drip-proof metal enclosure provided with adequate ventilation. Cast iron or wire-wound or sherardized mild steel resistances are not acceptable. All insulation used in the construction of the resistances shall be fire proof and moisture resistant. The connections shall be so designed and constructed that no over-heating shall occur at the contact surfaces. Soldered joints shall not be used in the connections to resistances. The resistances shall be designed for at least a five-minute rating, as defined in Clause 57 and 58 of British Specification No.587.

4.2.7.16 LIGHTING

4.2.7.16.1 Adequate fixed and portable lighting shall be provided in all parts of the workboat to enable safe working. Fluorescent light fittings shall have anti-vibration clamps holding the tubes and shall have injection moulded poly carbonate diffusers. The holders shall be of the free standing push on type not fixed to the fitting and the diffuser shall be fitted with seals to prevent the ingress of moisture. The fitting shall be flush mounted in accommodation spaces and surface mounted in engine room and stores. The fittings shall be similar or equal to Lascon type CL220/CLS 220, 230 volt fittings manufactured in South Africa.

4.2.7.16.2 6.16.2All accessories and lighting fittings used in positions exposed to spray, drip or condensed moisture shall be of the hose proof or watertight type. They shall be robustly constructed corrosion resistant and their general design and appearance shall be suitable to the location in which they are used.

4.2.7.16.3 One 400 watt LED flood light shall be mounted to illuminate the after deck and one to illuminate the fore deck for night working.

4.2.7.16.4 Deck lights for general illumination shall be incandescent bulkhead mounted well type fittings. The body and guard of the fitting shall be brass and the diffuser glass.

4.2.7.16.5 Special lighting shall be provided as required by clauses 4.2.3.52 and 4.2.4.3.21.2.

4.2.7.16.6 One search light shall be provided in accordance with clause 4.2.4.2.2.8.

4.2.7.16.7 Fluorescent luminaries for general illumination shall be fitted in each cabin, the steering compartment, stores, engine room, wheelhouse, alleyways and galley cubicles. In addition each berth shall have a fixed reading light and a "chart room" lighting fitting with an adjustable dimmer shall be provided for the chart table.

4.2.7.16.8 Special attention shall be given to providing suitable lighting through dimmer switches for all gauges and indicators.

4.2.7.16.9 The radio operating position shall be suitably illuminated by a 220 volt lamp with an emergency standby of the 24 volt supply.

4.2.7.16.10 Two 60W, 32 V, portable hand lamps shall be supplied. They shall be of robust design and shall incorporate substantial handles and lamp guards. Each lamp shall be fitted with bayonet cap type globe holders, 10 m cable and have all exterior metal parts well insulated. The lamp shall not be provided with a switch. (See clause 4.2.7.18.2)

4.2.7.17 NAVIGATION LIGHTS

4.2.7.17.1 A full complement of 24 V navigation lights shall be supplied as required by clause 4.2.3.52. All fittings shall comply with clause 4.2.7.16.2. Each lamp shall be connected through a watertight plug and socket situated close to its mounting position.

4.2.7.17.2 A suitable navigation light indicator board shall be provided in the wheelhouse.

4.2.7.18 POWER POINTS AND SOCKET OUTLETS

4.2.7.18.1 Three pin, one pin being for bonding, 15 A, 230 volt, watertight switch socket outlets complying with SABS 129 shall be provided in accordance with clause 4.2.4.3.22.2.

4.2.7.18.2 Two pin 5 A, 32 V, watertight switch socket outlets complying with BS 372, shall be provided in accordance with clauses 4.2.4.3.22.3 and 4.2.7.16.10.

4.2.7.19 ELECTRIC STOVES AND WATER HEATERS

4.2.7.19.1 A Sultan mini kitchen and microwave, preferably of South African manufacture, to serve both officers and crew shall be provided, in the galley area.

4.2.7.19.2 One 230 V AC electric water boiler of 5 litre capacity shall be installed in each galley cubicle. Elements shall be of the calrod type.

4.2.7.19.3 A thermostatically controlled 230 V AC electric geyser of 150 litre capacities shall be installed to provide hot water to showers, all washbasins and sinks.

4.2.7.20 RADIO INTERFERENCE SUPPRESSION

4.2.7.20.1 All equipment which is likely to cause radio interference shall be fitted with suitable suppression equipment.

4.2.7.21 SPARES

4.2.7.21.1 Tenderers shall submit a separate quotation for the following spares. Individual prices are to be quoted.

4.2.7.21.2 Spares recommended by Lloyds to be included in tender price.

4.2.7.21.3 List of spares recommended for operating the electrical equipment for 3 000 hours and for 10 000 hours. Complete spare motors to be included in this list.

4.2.7.22 TOOLS

4.2.7.22.1 A full set of any special tools required for maintenance and overhaul of the electrical equipment shall be offered and quoted for separately.

4.2.7.23 DRAWINGS AND INFORMATION TO BE SUBMITTED AT TIME OF TENDERING

4.2.7.23.1 A schematic diagram of the electrical generating and distribution systems and a general arrangement lighting layout including emergency lighting system.

4.2.7.23.2 The technical data sheet, which forms Annexure B to this section, shall be completed fully by all Tenderers. Failure to submit this data sheet fully completed, may preclude a tender from consideration.

4.2.7.23.2.1 A detailed load schedule showing full load and normal working load with diversity factors.

4.2.7.23.3 Details of the following equipment:

4.2.7.23.3.1 Transformers

4.2.7.23.3.2 Rectifiers

4.2.7.23.3.3 Batteries

4.2.7.23.3.4 Battery chargers

4.2.7.23.3.5 6.23.3.5 Lighting fittings

4.2.7.24 DRAWINGS, INSTRUCTIONS, MANUALS AND INFORMATION TO BE SUPPLIED BY THE SUCCESSFUL TENDERED.

4.2.7.24.1 General arrangement of each generating set showing overall dimensions and bedplate details.

4.2.7.24.2 Cross-section of each alternator showing complete winding data, brush sizes and bearing data.

4.2.7.24.3 Fully dimensioned outline of each type of motor. These drawings shall include winding data, brush data and bearing data.

4.2.7.24.4 Complete schematic diagram and a wiring diagram of each supply system on the vessel, showing cable sizes, type of insulation, normal working current and temperature limits.

4.2.7.24.5 Complete schematic diagram and a wiring diagram of each item or items of control equipment.

4.2.7.24.6 Maker's operating and maintenance manuals, of all electrical equipment, in accordance with Section 0, clause 0.13.

4.2.7.24.7 Four copies each of detailed descriptions of sequences of operation of all control units.

4.2.7.24.8 Spare parts lists of all electrical equipment, in accordance with clause 4.2.1, clause 4.2.1.13.

4.2.7.24.9 Two copies each of maker's Test Certificates for all electrical equipment, including motors and alternators.

4.2.7.24.10 Two copies each of speed/torque curves for all motors above 10kW.

4.2.7.24.11 Two copies of a schedule of all lamps, stating the type, cap, wattage and voltage.

4.2.7.25 TESTING

4.2.7.25.1 General

4.2.7.25.1.1 The following tests are required to be undertaken to prove that certain major items of equipment comply with the specification.

4.2.7.25.1.2 Tests may be either carried out at makers' works (i.e., type testing) or during acceptance trials.

4.2.7.25.1.3 All or part of the tests mentioned below may be waived at the discretion of Transnet National Ports Authority.

4.2.7.25.2 Main Alternator/s

4.2.7.25.2.1 (re clause 4.2.7.5.1). The capacity of the alternator/s to supply the normal working load on the load schedule shall be proved.

4.2.7.25.2.2 (re clause 4.2.7.5.2). The sharing of load between alternators shall be proved to be within 5% proportionally to the rated kVA.

4.2.7.25.2.3 (re clause 4.2.7.5.5). The regulation of the alternators shall be proved not to exceed the limits laid down in clause 42.b(ii) of BS 2949, whichever is applicable and in clause 423.a of the same standard.

4.2.7.25.2.4 (re clause 4.2.7.5.7). The temperature rise of the alternators shall be proved to comply with BS 2949 for continuous full load operation under rated conditions.

4.2.7.25.3 Protective System

4.2.7.25.3.1 (re clause 4.2.7.5.11). Levels of overload short circuit and over temperature of the alternators as recommended by the manufacturers shall be proved.

4.2.7.25.3.2 (re clause 4.2.7.6.6 and 4.2.7.6.8). All other protective devices/systems as recommended and supplied by the manufacturers shall be tested to establish that they operate satisfactorily at the levels recommended by the manufacturers.

4.2.7.25.4 Transformers

4.2.7.25.4.1 (re clause 4.2.7.10). All transformers shall be tested to establish compliance with BS 3399.

4.2.7.25.5 Circuit Breakers

4.2.7.25.5.1 (re clause 4.2.7.12.2). All circuit breakers shall be tested to establish compliance with BS 862.

4.2.7.25.6 Electric Motors

4.2.7.25.6.1 (re clause 4.2.7.13.4). All electric motors shall be tested to establish compliance with BS 5000 Part 2 or BS 2949, whichever is applicable.

4.2.7.25.7 Emergency Lighting

4.2.7.25.7.1 An emergency battery set and charger for emergency lighting as required by the Department of Transport and Classification Society shall be fitted.

4.2.8 AIR CONDITIONING & VENTILATION

4.2.8.1 STANDARDS AND SPECIFICATIONS

4.2.8.1.1 All equipment offered must comply with one of the following standards:

- (a) BS 15, 587, 729, 1 389, 1 449, 1 737, parts 2 and 3, 2 989, 3 837.
- (b) BSS 659
- (c) SABS 1 238
- (d) American Safety Code for Mechanical Refrigeration

4.2.8.2 TECHNICAL DATA

4.2.8.2.1 The technical data sheet forming Annexure "A" of this section must be completed in full by Tenderers. Failure to submit this Annexure fully completed may preclude a tender offer from consideration.

4.2.8.3 AIR CONDITIONING

4.2.8.3.1 Air conditioning shall be provided in the wheelhouse and accommodation spaces.

4.2.8.3.1.1 The conditioning shall be arranged for cooling only. No dehumidification or heating is required.

4.2.8.3.2 The air conditioning unit shall be of the water cooled floor standing marine type packaged unit/s.

4.2.8.3.3 The equipment shall be capable of maintaining automatically the following inside conditions against the space internal heat loads and the ambient conditions specified.

	DB °C	WB °C
INSIDE	25	19,5
OUTSIDE	30	25

4.2.8.3.4 Refrigeration Compressor and Condenser

4.2.8.3.4.1 The compressor shall be liberally rated for its duty and shall be operated at speeds well within the range recommended by the makers and preferably at the lower speeds. A sealed unit is preferred, however, if a separate motor and compressor is offered, they shall be mounted on a common baseplate. The entire unit shall be supported on resilient mountings.

4.2.8.3.4.2 The compressor and motor shall be adequately protected against overload, over-temperature and "on load" starting due to interruption of power supply.

4.2.8.3.4.3 The refrigerant used shall preferably be Ozone friendly.

4.2.8.3.4.4 An electric motor driven cooling water pump shall be mounted in the engine room below the light waterline.

4.2.8.3.4.4.1 The motor and pump shall be mounted on a common baseplate.

4.2.8.3.4.4.2 The pump shall be arranged to draw direct from the sea and to discharge to the condenser. The overboard shall be led underdeck to an approved shipside valve mounted above the loaded waterline. All the necessary isolating valves and an inboard mounted strainer box shall be supplied and fitted.

4.2.8.3.4.4.3 The starter controls shall be located in the engine room at the pump. The circuit shall be arranged to prevent the compressor being started prior to the cooling water pump. The compressor shall automatically shut down in event of failure of the cooling water flow.

4.2.8.3.4.5 A displacement pump "MONO" or similar is preferred.

4.2.8.3.5 Air Conditioning

4.2.8.3.5.1 The unit shall preferably be constructed of galvanized heavy gauge steel, reinforced for structural strength, and finally painted with anti-corrosive paint.

4.2.8.3.5.2 The unit shall be constructed and located such that easy access will be available to the interior of the unit for inspection and maintenance.

4.2.8.3.5.3 A suitably drained condensate pan shall be provided, adequately insulated and water proofed and easily accessible for inspection purposes.

4.2.8.3.5.4 The cooling coils shall comprise copper tubes with copper fins, preferably bonded by a complete solder coating on fins and tubes.

4.2.8.3.5.5 The velocity of the air passing through the unit shall be such that no condensate shall be carried beyond the fan.

4.2.8.3.5.6 The main supply fan shall be of the centrifugal type designed for silent operation.

4.2.8.3.5.7 The fan casing and discharge shall be adequately insulated against heat gains and losses.

4.2.8.3.5.8 The fan motor shall be adequately rated to be able to deliver air quantities in excess of the design volume.

4.2.8.4 VENTILATION

4.2.8.4.1 Mechanical ventilation shall be provided in all accommodation spaces, engine room and wheelhouse.

4.2.8.4.2 All fans shall be provided with two speed motors capable of driving the fans at 50% and 100% full speed.

4.2.8.4.3 The capacities of the fans shall be such as to provide the following air volumes in the respective areas:

(a) Engine Room: The combined manufacturer's requirements for all machinery at full output plus 50%.

(b) Accommodation spaces and wheelhouse: 7 to 9 air changes per hour.

4.2.8.4.4 Air shall be introduced via ducting and air outlets designed to ensure silent and good air distribution in the spaces involved.

4.2.8.4.5 No re-circulation of air will be permitted from wash places and toilets, and where practicable air not being re-circulated from accommodation spaces may be exhausted through toilets and wash places in which case no separate air supply will be necessary.

4.2.8.5 DUCTING

4.2.8.5.1 All ferrous duct work and auxiliaries shall be constructed from mild steel meeting with the requirements set down in BS 1449, Grade E.M.2A. Such sheets shall be either cold rolled, close annealed, or cold reduced and shall be finished after suitable pre-treatment by galvanizing by a continuously hot dipped process to conform to BS 2989, Group 2, Fax F special tight coated quality.

4.2.8.5.2 Rolled steel angle used for flanges and stiffeners shall be standard section conforming to BS 15 galvanised after manufacture.

4.2.8.5.3 All cut edges of galvanized sheet, angle or other sections shall be cut square and true and raw edges shall receive a coat of zinc chromate primer.

4.2.8.5.4 Galvanised sheet metal ductwork shall be constructed to at least the following sheet thicknesses and stiffening requirements.

DUCT SIZE (LONGER SIDE)	THICKNESS SWG	STIFFENING ANGLE
Up to 600mm	0,70 mm	None
600 mm to 900 mm	0,70 mm	25,4 mm x 25,4 mm x 3,2 mm at 1 200 mm max centres
900 mm to 1200 mm	0,80 mm	38,1 mm x 38,1 mm x 4,8 mm at 1 200mm max centres
1 200 mm to 1 500 mm	0,80 mm	38,1 mm x 38,1 mm x 4,8 mm at 900 mm max centres
Over 1 500mm	0,90 mm	38,1 mm x 38,1 mm x 4,8 mm at 900 mm max center

4.2.8.5.5 Self-tapping screws shall not be used in the construction and installation of ductwork without written instructions from the Engineer.

4.2.8.5.6 The ductwork shall be well supported by 25 mm x 3 mm mild steel flat bar clamps to the ship's structure.

4.2.8.5.7 The accommodation ducting shall terminate in adjustable louvers "PUNKAH" or similar.

4.2.8.5.8 The engine room ducting shall extend to the after end of the space to provide a through draught and shall terminate in an adjustable flap to allow for 360° deflection.

4.2.8.6 MOTORS

4.2.8.6.1 All electric motors shall comply with the requirements of clause 4.2.7.13 and sub clauses.

4.2.8.6.1.1 All starters shall comply with Clause 4.2.7.14 and sub-clauses.

4.2.8.7 FANS

4.2.8.7.1 Four axial fans shall be provided in positions indicated on drawing SME 845.

4.2.8.7.2 The fans shall be direct coupled to extended spindles of motors and be mounted in ducting in a conventional manner.

4.2.8.7.3 The section of ducting in way of the motor and fan shall be flange mounted and secured by bolts for easy removal.

4.2.8.7.4 Each duct shall be provided with the following:

(a) A mushroom type cowl

(b) A butterfly flap to afford isolation in event of fire.

(c) A heavy gauge filter screen on the underside of the mushroom cowl.

(d) An isolating switch for the motor

4.2.8.7.5 Nylon, adjustable type fan blades are preferred.

4.2.8.8 INFORMATION TO BE SUPPLIED

4.2.8.8.1 The tenderer shall supply the following information with his tender offer:

(a) A simple line diagram indicating the proposed duct runs, air velocities, register positions and air quantities at registers.

(b) Full details of the air conditioning equipment offered.

4.2.9 REFRIGERATION

4.2.9.1 GENERAL

4.2.9.1.1 This specification covers the supply and installation of refrigerating equipment required in the accommodation spaces.

4.2.9.1.2 One stainless steel domestic type refrigerator is required.

4.2.9.1.3 Details of the electro-mechanical refrigerator are as follows:

Capacity:	200 litres plus
Cabinet temperature:	2°C ± 1,5°C
Temperature differential:	10°C to 12°C
Cabinet finish:	Stainless steel

4.2.9.1.4 Gas to be Ozone friendly.

4.2.10 COMMUNICATIONS AND NAVIGATIONAL AIDS

4.2.10.1 EQUIPMENT REQUIREMENTS

The workboat is to be equipped with the following communications equipment and navigational aids:

- (a)** VHF Transmitter/Receivers
- (b)** 1 Small craft radar
- (c)** 1 Small craft echo sounder
- (d)** 1 Loudhailer (portable)
- (e)** 1 Signaling lamp
- (f)** 1 Intercom system
- (g)** 1 AIS
- (h)** 1 Anemometer
- (i)** 1 24 Volt lead-acid battery bank
- (j)** 1 Battery Charger
- (k)** And any other equipment that is required by SAMSA for this class of vessel.

4.2.10.2 STANDARDS

The equipment offered and the installation thereof shall comply with this section of the specification and also conform to the current issue of the following (where applicable):

4.2.10.2.1 Radio Regulations of the I.T.U (Geneva), (including 1978 additions and amendments)

4.2.10.2.2 The S.A. Merchant Shipping Act No, 57 of 1951 as amended.

4.2.10.2.3 The Radio Regulations: The Radio Act 1952

4.2.10.2.4 British Standards BS 3939

4.2.10.2.5 British Standards BS 89

4.2.10.2.6 Postmaster General. Part 12 of the Radio Regulation, Limits of Interferences to Radio – Communications.

4.2.10.2.7 VHF Transmitters and Receivers, MPT. 1251

4.2.10.2.8 British Board of Trade, Marine Radar. (As applicable)

4.2.10.2.9 If any of the above regulations is superseded then the latest regulation applies.

4.2.10.3 GENERAL REQUIREMENTS (All Equipment)

4.2.10.3.1 The tenderer shall quote separately for each item of equipment offered, as called for under sub-classification headings, and in ANNEXURE F of this Section.

4.2.10.3.2 All equipment shall be designed and treated to operate satisfactorily under the environmental conditions specified (clause 4.2.1.27), due cognisance being taken of the saline atmosphere, possibility of condensation in the equipment, and the incidence of severe lightning.

4.2.10.3.3 All components used in the equipment shall be types which can be readily obtained from local stocks in South Africa.

4.2.10.3.4 All the controls on the equipment shall be of such a size and shape as to permit normal operation by a person wearing thick gloves. They shall be easily accessible from the steering position.

4.2.10.3.5 Equipment shall be mounted and placed to facilitate access for maintenance.

4.2.10.3.6 Facilities for the measurement of important circuit parameters, in the form of easily accessible test points shall be provided on all unit and printed circuit boards.

4.2.10.3.7 Where practicable, a legible circuit diagram shall be attached to the inner surface of a lid or unit case. Symbols shall conform to the requirements of BS 3939.

4.2.10.3.8 All indicator lights shall preferably be solid state (LED's)

4.2.10.3.9 All equipment cases shall be bonded and earthed. This shall not cause the craft's power supply to become "earthy".

4.2.10.3.10 Speech circuits must be balanced to earth and carried in screened cable. Such circuits should be well separated from heavy current circuits.

4.2.10.3.11 The insulation resistance between a conductor and any other conductor or earth shall not measure less than 1 megohm using a 50 volt source.

4.2.10.3.12A suitable clock shall be provided in the wheelhouse. The R/T silence period, viz. 3 minutes after the hour and the half hour, shall be distinguished by red sectors on the clock face.

4.2.10.3.13 Three wooden frames shall be mounted in the wheelhouse to display:

- (a) the ship's station licence
- (b) the distress procedure chart
- (c) radio aerial rigging plan.

4.2.10.4 VHF RADIO

4.2.10.4.1 Two 25 channel marine type frequency modulated (F3) sailor radio telephones providing both international and private used channels are required.

Both receiver and transmitter shall meet the technical requirements of

4.2.10.4.2 ANNEXURE G

4.2.10.4.3 Both transceivers shall be capable of operation on 16 of the international channels in the range 156,0 and 157,5 MHz and up to 6 "private user" channels in the range 159,0 to 159,5 MHz.

4.2.10.4.4 Each transceiver shall be controlled by a control head conveniently mounted relative to the steering position, and connected to the transceiver by a multicore plug-ended cable.

4.2.10.4.5 The control head shall provide the following facilities:

- (1) ON/OFF switch and indicator light
- (2) Channel selection
- (3) Volume control
- (4) Squelch control
- (5) Transmitter "ON" light (red)

- 4.2.10.4.6** The transceiver units shall be readily dismountable for maintenance or replacement purposes.
- 4.2.10.4.7** Both receivers shall be identical, and identically equipped. Determination of the frequencies of operation shall be inherent in the control head, i.e. interchanging the transceivers shall not affect the frequencies accessible from a particular control head.
- 4.2.10.4.8** The receiver output from the transceivers shall be connected to extension loudspeakers of the midget re-entrant horn type. One shall be mounted on the port side of the steering position and one on the starboard side.
- 4.2.10.4.9** Each transceiver shall be provided with a telephone type handset located adjacent to the relevant control head. The handset shall be connected by a coiled spiral type cord which extends to 2m, and shall include a PTT switch to control the transmitter.
- 4.2.10.4.9.1** In addition, an extension loudspeaker and handset, with access to the "private user" set only, shall be provided in the officers' accommodation.
- 4.2.10.4.10** Dual watch facility is not required, nor is it acceptable. Should this facility be standard for the sets offered, it must be disabled, and any external controls neatly removed.
- 4.2.10.4.11** As both radio telephone installations may be operated simultaneously, installation must be such as to minimise mutual interference. The tenderer shall ensure that no spurious noises emanate from a receiver when the transmitter of the other installation is energised.
- 4.2.10.4.12** It is essential that the actual channel designator of the selected channel is displayed, e.g. "06", "PC2), etc.
- 4.2.10.4.13** Both transmitter units shall incorporate protective devices to prevent damage should the transmitter be operated when the aerial is open on short-circuit.
- 4.2.10.4.14** Frequency determination in the transceivers may be either by synthesiser or by crystal control.
- 4.2.10.4.15** If crystals are used trimmers must be provided so that the frequency may be set exactly.
- 4.2.10.4.16** The actual frequencies will be notified to the successful tenderer when the order is placed.
- 4.2.10.4.17** Each radio telephone shall be provided with an omni directional aerial.
- 4.2.10.4.18** Each aerial with its respective matching/balun unit shall be enclosed in a robust weather/sea spray-proof glass fibre tube.
- 4.2.10.4.19** The standing wave ratio on the aerial feeder shall not exceed 1,5 to 1,0.

4.2.10.5 RADAR

A Furuno daylight display 24 mile range radar is required.

4.2.10.6 ECHO SOUNDER

- 4.2.10.6.1** A small craft echo sounder (Furuno type) is required.
- 4.2.10.6.2** The echo sounder equipment is primarily required to provide accurate readings to a depth of twenty meters. The sea bed in the vicinity of the harbour is varied consisting of soft mudbanks, sand and rock.
- 4.2.10.6.3** The visual/recorder unit shall be suitable for bulkhead or deck head mounting with an adjustable swivel bracket provided to permit easy viewing of the depth scales from the wheelhouse steering position.
- 4.2.10.6.4** The layout of controls shall be such that they can be easily identified and accessible for convenient operation.
- 4.2.10.6.5** The recorder chart shall be clearly illuminated by a light source within the recorder. A dimmer switch shall be provided.
- 4.2.10.6.6** The following external controls shall be provided on the unit:
- 4.2.10.6.6.1** Mains supply on/off switch with lamp indicator
- 4.2.10.6.6.2** Sensitivity control
- 4.2.10.6.6.3** Recording chart paper speed selector
- 4.2.10.6.6.4** Visual/record change-over switch
- 4.2.10.6.6.5** Depth range control (metres)
- 4.2.10.6.6.6** Chart line marker control
- 4.2.10.6.6.7** Illumination brightness control
- 4.2.10.6.7** The transducer/s shall be compact in size and their housings shaped to reduce the effects of water aeration to a minimum. The shape of the transducer and housing shall conform to the hull surface so that damage to the transducer cannot occur should the craft hull contact underwater objects.
- 4.2.10.6.8** The tender shall submit a sketch showing the method of fitting the transducer to a craft of this class.
- 4.2.10.6.9** The equipment shall be suitable for depth soundings with a sounding velocity of 1 500 metres/second.
- 4.2.10.6.10** The basic depth range scales shall not exceed 0 to 20 metres on recorder unit and 0 to 40 metres on the visual display unit.
- 4.2.10.6.11** The variation of recording accuracy shall not exceed 5% for temperature variations 0°C to 44°C.
- 4.2.10.6.12** The equipment when installed shall be capable of indicating and recording a depth clearance of one metre or less between the hull transducers and the underwater object.
- 4.2.10.6.13** The recorder unit shall permit the actual depth to be visible and easily read as it is being recorded.
- 4.2.10.6.14** The recording paper shall move at constant speed and a control provided to select paper speeds between approximately 4 and 30 millimetres per minute.

4.2.10.6.15 The recording paper shall be of the dry type.

4.2.10.6.16 The tenderer shall state the following:

4.2.10.6.16.1 The recommended safe mounting distance between the echo sounder and the magnetic compass.

4.2.10.6.16.2 The pulse length and repetition rate used on all ranges.

4.2.10.7 LOUDHAILER (Portable)

4.2.10.7.1 The portable loudhailer shall be battery operated and intrinsically safe.

4.2.10.7.2 It shall be certified the loudhailer has been approved "Intrinsically Safe" by the appropriate authority.

4.2.10.7.3 The loudhailer shall combine a re-entrant horn type loudspeaker, anti-acoustic feedback type microphone, amplifier, switching mechanism, and cells in one complete unit.

4.2.10.7.4 The total mass of the unit not exceed 4 kgs.

4.2.10.7.5 The overall dimensions shall not exceed 330 mm by 330 mm.

4.2.10.7.6 The loudhailer unit shall be suitable for operation in conditions of stormy weather, sea spray or driving rain, without damage.

4.2.10.7.7 The loudhailer shall have an audible range of at least 330 metres.

4.2.10.7.8 The loudhailer shall be fitted with a pistol grip type handle which incorporates a "press-to-talk" switch and a sealed compartment which houses the battery.

4.2.10.7.9 The battery shall consist of large type torch cells conforming to SABS type R20.

4.2.10.7.10 The loudhailer design shall permit the replacement of battery cells without the necessity of special tools being required for this purpose.

4.2.10.8 SIGNALLING LAMP

4.2.10.8.1 The equipment manufacturer and type numbers of major units of equipment including alternative shall be stated by the Tenderer. The cost of all major units shall be submitted in the statement of compliance.

4.2.10.8.2 The signalling lamp shall comply in all respects with the requirements of the Safety of Navigation Regulations Chapter IV.

4.2.10.8.3 An admiralty type signalling lamp using a reflector diameter of not less than 130 millimetres is required.

4.2.10.8.4 A hardwood or glass fibre carrying case with handle is required. The case shall contain the lamp with its ten metre length of tough cabtyre cable terminated in a waterproof type plug. Red and green light filters also spare lamp shall be provided and stowed in the lamp case.

4.2.10.8.5 An open type wooden rack shall be provided to accommodate the signalling lamp carrying case and battery, in an easily seen place, near the exit door on the bridge.

4.2.10.8.6 An electrical outlet for providing the ship's insulated circuit, two wire supply of 230 volt \pm 10% 50 Hz, shall be installed for the charger, at a point adjacent to the lamp and battery case rack.

- 4.2.10.8.7** A small bulkhead mounted mains operated, constant current type metal clad battery charger unit is required. The charger shall charge the battery while the signalling lamp is in the stowed position.
- 4.2.10.8.8** The charger unit shall incorporate an on/off switch, 200 milliamp charge indicator, fuses and connecting cord with plug and sockets.
- 4.2.10.8.9** The mains operated charger unit is required to charge a 12 volt bank of sealed nickel cadmium batteries, rated at 10 ampere hours, at a constant charge current of 200 milliamps. In no circumstances shall the charge current of 200 milliamps be exceeded. Means shall be incorporated in the charger; to ensure the maximum charge current of 200 milliamperes cannot be exceeded.
- 4.2.10.8.10** A small robust battery case with carrying handle, shall be provided in order to accommodate ten sealed type nickel cadmium cells, (connected in series). A built-in full wave rectifier, cells, mains input and battery output protective fuses, wire connectors, plugs and sockets shall form the complete battery unit.
- 4.2.10.8.11** Further information on the battery unit is contained in SAR specification No. SCAG-14 dated October 1976.
- 4.2.10.8.12** When completely charged the battery shall maintain a 12 volt signalling lamp of 35 or 60 watt capacity at full burning brilliance for periods of not less than 3,3 hours of 2 hours respectively.
- 4.2.10.8.13** An independent source of electrical energy for powering the 12 volt signaling lamp is required an shall consist of an isolating transformer operating from the a.c. mains supply.
- 4.2.10.8.14** Two prominently marked waterproof type sockets shall be provided, one on the port side and one on the starboard side of the wheelhouse. These sockets shall provide for connection to the signalling lamp cabtyre termination plug.

4.2.10.9 TALK BACK SYSTEM

A fixed talk back marine type system is required between the wheelhouse (master station) and the following points:

- (a) Forward deck
- (b) Crews' accommodation
- (c) Afterdeck

- 4.2.10.9.1** The system shall incorporate two way tone calling with talk back facilities. The master station shall be fitted with a selector switch for calling but this switch shall not prevent an outstation from calling in at any time.

4.2.10.10 POWER SUPPLY SYSTEM

- 4.2.10.10.1** The power supply system shall be arranged as follows:

- (a) The radar and the echo sounder fed off the 24 volt distribution system.
- (b) The VHF radio telephone system shall operate off own 24 volt lead acid batteries with its own charger unit.
- (c) Batteries only to operate when main power source fails.
- (d) Dual power supply each with its own voltmeter is to be supplied.

4.2.10.10.2 The supply for all equipment shall be from an independent sub-distribution board located in the wheelhouse.

4.2.10.10.2.1 Each major item of equipment shall be protected by a miniature circuit breaker. The inter-communication system and the signalling lamp charging circuits may be protected by fuses in lieu of the circuit breaker.

4.2.10.10.3 All equipment must be designed to operate within the voltage variation limits stated in clause 4.2.7.5.5.

4.2.10.10.4 The 24 volt battery shall be mounted in a well ventilated G.R.P. weather-proof box situated on the wheelhouse top.

4.2.10.10.4.1 The capacity of the battery shall be adequate to maintain the communication systems for a period of at least 6 hours without charging.

4.2.10.10.4.2 The lid of the box shall be secured by means of stainless steel bolts and wing nuts and shall be easily removable for battery maintenance purposes.

4.2.10.10.5 A suitable automatic battery charger operating off the 230 volt distribution system shall be provided.

4.2.10.10.5.1 It shall be capable of recharging the battery from zero to full in sixteen hours at full output.

4.2.10.10.5.2 The maximum voltage shall not exceed 28.8 volts and a manual control to allow the charging rate to be reduced to $\frac{1}{4}$ and $\frac{1}{10}$ full charge rate shall be provided.

4.2.10.10.5.3 It shall be situated in the wheelhouse and shall incorporate a voltmeter for battery condition monitoring and in an ammeter to indicate the charge and discharge current.

4.2.10.10.6 It shall be possible by means of a switch to operate the communication equipment from the 24 volt distribution system in the event of failure of the battery.

4.2.10.11 TOOLS AND SPARES

Tools and spares for the equipment shall be provided as follows:

4.2.10.11.1 Any special tools required for the proper maintenance of the equipment. The tools shall be supplied in a small lockable box, which can be stowed in the radio spares drawer. (See clause 4.2.4.2.3.6)

4.2.10.11.2 Consumable spares likely to be required for a two-year maintenance period and shall include 200% of all dial and indicator lamps and 1 000% of cartridge fuse types, used in the equipment.

4.2.10.11.3 One of each of the types of handsets (including inserts, spiralling cord and handset rest) used with each type of radio and communications equipment, shall be supplied.

4.2.10.11.4 A spare tightly coiled self-spiralling type cord shall be provided for each handset cord in service.

4.2.10.11.5 All spares and tools offered shall be listed and separately priced in the tender (ANNEXURE F of this Section)

4.2.10.12 TECHNICAL MANUALS

4.2.10.12.1 The technical manuals as required by clause 4.2.1.13 shall be included.

4.2.10.12.1.1 The technical descriptions of the operation of individual circuits and also technical details, schematic and wiring diagrams, printed circuit board component layout, connectors, connections component values and spare part numbers. Important voltage and current readings shall be indicated on the diagrams submitted.

4.2.10.12.1.2 Technical information shall be provided for all major and ancillary units, including battery chargers, battery eliminators, transverters and controller units.

4.2.10.12.1.3 A complete block schematic diagram showing all radio and electronic units installed, is required. All inter-unit wiring, terminal connections and cable colour coding should be clearly shown. Wiring from the main radio electrical distribution board, as well as RF circuits and coaxial cables shall be included.

4.2.11 FIRE FIGHTING

4.2.11.1 GENERAL

Firefighting equipment conforming to the South African Department of Transport, Marine Division requirements for this class vessel shall be provided and fitted.

4.2.11.2 FIRE EXTINGUISHERS

All fire extinguishers supplied to meet the general requirements shall be certified, colour coded and mounted as required by the Department of Transport, Marine Division.

4.2.11.3 HOSE AND EQUIPMENT

Notwithstanding the requirements of the Department of Transport, the following minimum fire hoses and equipment shall be supplied and housed in suitable cabinets.

4.2.11.3.1 2 – 18 metre lengths of synthetic non-percolating fire hose complete with 63.5 mm instantaneous couplings.

4.2.11.3.2 2 – short “stream form” solid cast branch pipes with 63.5 mm instantaneous couplings.

4.2.11.3.3 2 – 19 mm nozzles to fit the branch pipe in 4.2.11.3.2.

4.2.11.3.4 2 – diffuser type nozzles to fit the branch pipe in 4.2.11.3.2.

4.2.11.4 BREATHING APPARATUS

Two self-contained breathing apparatus sets of SABS approved standards are to be supplied and mounted on a suitably placed, labelled locker.

4.2.12 PAINTING

The tenderer is to liaise with the subcontractor with regards to the specification of the original paint supplied (ANNEXURE H). Paint specification to be kept with the original specifications supplied by previous contractor.

4.2.12.1 SCOPE

This Section deals with paints, approval of paints, workmanship, preparation of surfaces prior to painting and painting procedures and Tenderers must tender on this basis notwithstanding inadvertent omissions from this specification.

4.2.12.2 WORKMANSHIP

4.2.12.2.1 The tenderer is to appoint an independent paints inspector as a go between the Tenderer and paint supplier.

4.2.12.2.2 All painting work shall be done to the satisfaction of the Transnet National Ports Authority Inspector. Work shall be properly programmed to minimize damage to painted surfaces.

4.2.12.2.3 All paint defects detected before and during trials, shall at the discretion of Transnet National Ports Authority be rectified before the craft is accepted.

4.2.12.3 SURFACE PREPARATION

4.2.12.3.1 All steel to be dry grit blasted to SA2½ to remove all mill scale before being worked, followed immediately by weld primer compatible with painting scheme.

4.2.12.3.2 Prior to application of coating materials, all surfaces shall be free from foreign matter such as crayon marks, dirt, dust, grease, heat and mill scale, oil, rust, etc.

4.2.12.4 COATING SYSTEM

A well proven marine coating system shall be used, details of which shall be submitted in the tender document.

4.2.12.5 INSPECTION OF PAINTWORK

4.2.12.5.1 Special inspection of approval of paints, preparation of surfaces for painting and application of paints must be approved by an independent paint inspector.

4.2.12.5.2 At least one reading shall be taken per m² of surface or per 3m length in the case of narrow sections. Readings shall be taken at approximately equally spaced intervals on the surfaces. All readings shall be recorded and the average of not less than ten readings calculated.

4.2.12.5.3 If the average coating thickness is less than the minimum specified a further coat or coats shall be applied.

4.2.12.5.4 Not more than 10 per cent of thicknesses measured shall be less than the minimum dry film thickness specified. No thickness shall be less than 90 per cent of the minimum.

4.2.12.6 GUARANTEE

The successful tenderer shall guarantee that the workmanship will be satisfactory for at least one year after delivery has been taken by Transnet National Ports Authority. In case of defects occurring in the coating within one year as a result of poor workmanship or material, the successful tenderer at no cost to Transnet National Ports Authority shall repair or replace the defective coating within such period as may be decided by Transnet National Ports Authority.

SCHEDULE OF PRICES

CLAUSE	ITEM	PRICE
4.2.3	Hull	
4.2.4	WHEELHOUSE AND FITTINGS ACCOMMODATION AND FITTINGS	
4.2.5	MACHINERY AND COMPRESSOR PLANT	
4.2.6	MAIN ENGINES ALTERNATORS	
4.2.7	ELECTRICAL INSTALLATION	
4.2.8	AIR CONDITIONING AND VENTILATION	
4.2.9	REGRIGERATION	
4.2.10	COMMUNICATION AND NAVIGATIONAL AIDS	
4.2.11	FIRE FIGHTING	
4.2.12	PAINTING	
	OTHER	
	TOTAL	

5 List Of Drawings

5.1 DRAWINGS ISSUED BY THE *EMPLOYER*

This is the list of drawings issued by the *Employer* at or before the Contract Date and which apply to this contract.

Note: Some drawings may contain both Works Information and Site Information.

Please refer to the annexures for SAMSA and BV issued drawings and It will be the duty of the contractor to get any outstanding drawings from the designers, BV, previous sub-contractors and produce all remaining drawings in the case where drawings are not retrievable.

6 Annexures

6.1 ANNEXURE A

ANNEXURE TO CLAUSE 4.2.3

TECHNICAL DATA SHEET

Information required from Tenderer at time of tendering:

6.1.1 BOW FENDER (Clause 4.2.3.14.2)

- 6.1.1.1 Manufacturer
- 6.1.1.2 Dimensions of rubber
- 6.1.1.3 Price quoted

6.1.2 CABLE CAPSTAN (Clause 4.2.3.18)

- 6.1.2.1 Manufacturer
- 6.1.2.2 Model or type
- 6.1.2.3 Motor power
- 6.1.2.4 Lifting of speed of anchor
- 6.1.2.5 Warping drum speed
- 6.1.2.6 Quoted price

6.1.3 TOWING HOOK (Clause 4.2.3.45)

- 6.1.3.1 Manufacturer
- 6.1.3.2 Model or type
- 6.1.3.3 Safe load
- 6.1.3.4 Quoted price

6.1.4 AIR WHISTLE (Clause 4.2.3.51)

- 6.1.4.1 Manufacturer
- 6.1.4.2 Type or model

6.1.5 NAVIGATION LIGHTS (Clause 4.2.3.52)

- 6.1.5.1 Manufacturer
- 6.1.5.2 Series or type

6.1.6 LIFERAFTS (Clause 2.54.2)

- 6.1.6.1 Manufacturer
- 6.1.6.2 Type or model
- 6.1.6.3 Number of persons per raft

6.2 ANNEXURE B

ANNEXURE (To Clause 4.2.4)

TECHNICAL DATA SHEET

Information required from Tenderer at the time of tendering:

SEARCHLIGHT (Clause 4.2.4.2.2.8)

MANUFACTURER

MODEL OR TYPE

COMPASS (Clause 4.2.4.2.2.6)

MANUFATURER

MODEL OR TYPE

SEWAGE PLANT (Clause 4.2.4.3.28)

MANUFATURER

MODEL OR TYPE

6.3 ANNEXURE C

ANNEXURE TO CLASUE 4.2.5

EXTRACT FROM STANDARD MECHANICAL SPECIFICATION FOR AIR COMPRESSORS
SPECIFICATION NO: 17-M-1

6.3.1 SCOPE

- 6.3.1.1 This specification is for an electric motor driven air compressor.
- 6.3.1.2 This standard specification shall be read in conjunction with Section 4 of the specification which will indicate specific requirements.
- 6.3.1.3 The compressor shall be supplied complete in all respects with a prime mover, air receiver, air filter and intake muffler, unloading and regulating devices for continuous operation, fusible plugs or other protective device guarding against excessive delivery temperature, pressure gauge, tachometer and the usual standard equipment supplied.

6.3.2 TECHNICAL INFORMATON REQUIRED

All offers shall be complete and will not be considered unless full particulars and sufficient literature is provided at the tendering stage to enable the Senior Marine Engineer to assess the offer properly.

Tenderers shall complete the relevant questionnaire in full and must indicate whether their offer complies with each item of the specification.

Should there be insufficient space for furnishing full details, tenderers shall provide the additional details in their covering letter. The additional details shall be numbered in accordance with the applicable clause specified in the specification.

6.3.3 REQUIREMENTS

The following details of the compressor shall be stated:

REQUIRED	DETAILS OF OFFER
6.3.3.1 General	
6.3.3.1.1 Type of compressor (see also clause 3.2)	_____
6.3.3.1.2 Capacity of sea level	_____
6.3.3.1.3 Delivery temperature of air	_____
6.3.3.1.4 Maximum working temperature	_____
6.3.3.1.5 Working pressure, maximum and normal	_____
6.3.3.1.6 Volumetric efficiency as a function of pressure	_____
6.3.3.1.7 Volumetric efficiency as a function of speed	_____
6.3.3.1.8 Isentropic efficiency as a function of pressure	_____
6.3.3.1.9 Isentropic efficiency as a function of speed	_____
6.3.3.1.10 Speed at no load	_____
6.3.3.1.11 Size of compressor inlet and outlet ports	_____
6.3.3.1.12 Type of drive from prime mover	_____
6.3.3.1.13 Cooling system of compressor	_____
6.3.3.1.14 Air intake filter. An illustration showing: The construction and method of operating of the filter must be furnished and tenderers must advise whether the filter can be dismantled for cleaning and maintenance purposes.	
6.3.3.1.15 Bearings	_____
6.3.3.1.16 Air delivery connections	_____
6.3.3.1.17 Overall dimensions	_____
6.3.3.1.18 Intercooler	_____
6.3.3.1.19 Materials used in construction of compressor	_____
6.3.3.1.20 Safety devices incorporated in the compressor	_____

6.3.4 Reciprocating Type Compressor

The following details must be furnished:

- 6.3.4.1 Compressor, including number of stages and cylinder arrangement _____
- 6.3.4.2 Inlet and outlet valves _____
- 6.3.4.3 Normal operating temperature of high and low pressure cylinders _____
- 6.3.4.4 Cylinder drain cocks _____

6.3.5 The compressor and equipment shall conform to the following requirements:

- 6.3.5.1 The sound intensity level of the compressor shall not exceed 85 dB –A at a radius of 1 m from the sound source. _____
- 6.3.5.2 Fusible plugs or other protective devices to guard against excessive temperature and /or pressure of the air compressor shall be provided _____
- 6.3.5.3 When employing fusible plugs as a protective device against excessive delivery temperature, they shall be fitted as close as possible to the outlet orifice of each stage to 6°C above the highest permissible working temperature of the compressor, such temperature shall be stated by the tenderer. _____
- 6.3.5.4 The valve covers shall preferably be secured by studs _____
- 6.3.5.5 An automatic unloading and regulating device shall be provided _____
- 6.3.5.6 The compressor shall be to I.S.O.Metric Standards and the instrumentation, gauges, dials, etc., shall be graduated in System International (S.I.) units _____
- 6.3.5.7 Vee belt and pulleys shall be to an established standard and such standard stated. The sizes, code number, name and address of manufacturer and the source of supply ex stock in the Republic of South Africa of all belts offered shall be stated. _____
- 6.3.5.8 Lubricants for the compressor shall be selected from the Transnet standard list, and tenderes' recommendations are to be based on the "Lubricants and Petroleum Fuels Standing Advisory Committee Circular No. 1 (Revision No.2) January 1979" or latest. _____

6.4 ANNEXURE D

ANNEXURE TO CLAUSE 4.2.7

TECHNICAL DATA SHEET

(To be completed by Tenderer)

The following information shall be furnished in respect of all electrical equipment offered:

6.4.1 ALTERNATORS

6.4.1.1 Maker's name and type number

6.4.1.2 Rated Output kVA

6.4.1.3 Maximum output

6.4.1.4 Temperature rise of windings at rate output not more than. degrees centigrade

6.4.1.5 Voltage, frequency and no. of phases

6.4.1.6 Guaranteed voltage regulation (see clause4.2.7.5.5)

Max drop.....%

Max rise.....%

For a sudden change of symmetrical load equal to% rated current at
Power factor.

6.4.1.7 Speed in R.P.M

6.4.1.8 A full description of the methods adopted to prevent overloading of diesel engine

.....
.....
.....

6.4.1.9 Number of bearings and type

6.4.2 2.0 MOTORS

6.4.2.1 Name of manufacturer

6.4.2.2 Type of motor (e.g. squirrel cage/slipring/others)

6.4.2.3 Rated output

6.4.2.4 Speed in R.P.M

6.4.2.5 Current at full load

6.4.2.6 Power factor at full load

6.4.2.7 Maximum instantaneous starting current when switched directly across the supply without using a current reducing starter

6.4.2.8 Calculated stalling current at full voltage

6.4.2.9 Starting current and torque of motor in first position of the starter

.....

6.4.2.10 Type of bearings

6.4.2.11 Type of enclosure

6.4.2.12 Type of cooling

6.4.3 STARTERS

6.4.3.1 Name of manufacturer

6.4.3.2 Type of starter

6.4.3.3 Operation: manual or push button

6.4.3.4 Maximum continuous rating in amperes

6.4.3.5 Type and number of overload releases fitted

6.4.3.6 Whether under-voltage protection is incorporated

6.4.3.7 Whether single phasing protection is incorporated

6.4.3.8 Duty rating of starter

6.4.3.9 Mounting

6.4.3.10 Whether an emergency "Stop" button is fitted

6.4.3.11 Makers and type of resistance

6.4.4 SWITCHBOARDS

6.4.4.1 Maker's name, type dial, size and range of meters

.....

6.4.4.2 Maker's name and rating of circuit breakers

.....
.....

6.4.4.3 Protection details

.....
.....

6.4.5 CABLES

6.4.5.1 Sizes, type and details of construction of all power cables

.....
.....

6.4.5.2 Individual loading of main distribution cables

.....
.....
.....

6.4.5.3 Operating temperatures

.....

.....
SIGNATURE OF TENDERER

Tender No.

Date:

6.5 ANNEXURE E

ANNEXURE TO CLAUSE 4.2.8

TECHNICAL DATA SHEET

N.B.The following details shall be submitted for each of the schemes offered:

6.5.1 COMPRESSOR(S)

6.5.1.1 Make of Compressor(s)

6.5.1.2 Type
and.....

Model
number.....

6.5.1.3 Capacity in watts/hr. at°C suction andcondensing temperature.

6.5.1.4 kW of compressor at above conditions.....

6.5.1.5 Number of cylinders: Bore:

Stroke:

6.5.1.6 Compressor speed (r.p.s.).....

6.5.1.7 Pulley sizes:

flywheel.....

Motor.....

6.5.1.8 Type of drive.....

6.5.1.9 1Weight of compressor, including motor.....

6.5.1.10 Type of refrigerant used and refrigerant charge in kg.....

.....

6.5.1.11 Oil charge.....

6.5.1.12 Type of capacity control.....

6.5.1.13 Manufacture rating curves must be supplied.....

6.5.2 COMPRESSOR MOTOR

6.5.2.1 Type and make.....

.....

6.5.2.2 kW of motor (continued).....

- 6.5.2.3 Starting current with associated starter
- 6.5.2.4 Full load current
- 6.5.2.5 Speed in r.p.m
- 6.5.2.6 Type of bearing
- 6.5.2.7 Type of enclosures
- 6.5.2.8 Supply voltage and frequency
- 6.5.2.9 Continuous rating temperature rise
- 6.5.2.10 Power factor at full load

6.5.3 STARTER AND SWITCHGEAR COMPRESSOR

- 6.5.3.1 Type and
Make.....
- 6.5.3.2 Maximum continuous rating.....
- 6.5.3.3 Type of overload protection employed.....

.....

- 6.5.3.4 Enclosure.....
- 6.5.3.5 Literature must be submitted

6.5.4 CONDENSER

- 6.5.4.1 Type and make
- 6.5.4.2 Nominal capacity
- 6.5.4.3 Number of tubes
- 6.5.4.4 Material of tubes
- 6.5.4.5 Refrigerant operating capacity
- 6.5.4.6 Refrigerant storage capacity
- 6.5.4.7 Receiver protection provided
- 6.5.4.8 Weight (kg)
- 6.5.4.9 Rating curves or tables must be submitted

6.5.5 FANS : CONDENSER

- 6.5.5.1 Make of fans
- 6.5.5.2 Type and model number of fans

-
- 6.5.5.3 Number of fans.....
 - 6.5.5.4 Size of fans.....
 - 6.5.5.5 Capacity of fans (m³/hr at r.p.s.).....
 - 6.5.5.6 kW of fan at above conditions.....
 - 6.5.5.7 Type of bearings.....
 - 6.5.5.8 Peripheral speed of fan blades.....
 - 6.5.5.9 Is fan statically and dynamically balanced.....
 - 6.5.5.10 Type of drive.....

6.5.6 CONDENSER FAN MOTOR

- 6.5.6.1 Type and make.....
- 6.5.6.2 Watts.....
- 6.5.6.3 Speed.....
- 6.5.6.4 Type of bearings
.....
- 6.5.6.5 Type of enclosure.....
- 6.5.6.6 Supply voltage and frequency.....
- 6.5.6.7 Continuous rating temperature rise.....
- 6.5.6.8 Type of overload provided.....
- 6.5.6.9 Contactor type and make.....
- 6.5.6.10 Contactor max. continuous rating.....
- 6.5.6.11 Type of overload protection on contactor.....

-
- 6.5.6.12 Rupturing capacity.....

6.5.7 AIR CONDITIONER UNIT AND FAN

- 6.5.7.1 Make.....
- Type.....
- And Model and Number.....

- 6.5.7.2 Face area of cooling coil in sq.m.....and face velocity.....
- 6.5.7.3 Tons per sq. m. of cooling coil face are for design conditions.....
- 6.5.7.4 material of cooling coil and fans.....
- 6.5.7.5 Number of coils of cooling coil and number of revs deep
.....
- 6.5.7.6 Resistance of wet coil (kPa at design max. m³/hr
- 6.5.7.7 Entering design W.D. temperature of air.....
- 6.5.7.8 Entering design D.D. temperature of air
- 6.5.7.9 Leaving design W.D. temperature of air.....
- 6.5.7.10 Leaving design D.D. temperature of air
- 6.5.7.11 Coil rating tables must be submitted

6.5.8 CONTROL

- 6.5.8.1 A complete description of the control system offered must be submitted.

6.5.9 SUPPLY FAN MOTORS (AIR CONDITIONING UNITS)

- 6.5.9.1 Type.....
And make
- 6.5.9.2 Continuous Kw
.....
- 6.5.9.3 Speed of motor
.....
- 6.5.9.4 Type of bearings
.....
- 6.5.9.5 Type of enclosure
.....
- 6.5.9.6 Supply voltage and frequency
.....
- 6.5.9.7 Continuous rating temperature rise
.....
- 6.5.9.8 Type of overload protection provided
.....
- 6.5.9.9 Type and
.....
make of contactor
.....
- 6.5.9.10 Contactor maximum continuous rating
.....

6.5.9.11 Type of overload protection provided on contactor

6.5.9.12 Rupturing capacity
.....

6.5.10 VENTILATOR SUPPLY FAN

6.5.10.1 Make and Type of fan
.....

6.5.10.2 Model No. of fan
.....

6.5.10.3 Number and size of fans
.....

6.5.10.4 Size of inlet and outlet
.....

6.5.10.5 Speed

6.5.10.6 Design System Static Pressure in kPa for air at 21C and 4,340 kPa
.....

6.5.10.7 Capacity of fan at above speed and static pressure
.....

6.5.10.8 Outside air quantity
.....

6.5.10.9 Outlet velocity of fan in m/s
.....

6.5.10.10 Type of bearings
.....

6.5.10.11 Type of drive
.....

6.5.11 SUPPLY FAN MOTORS (VENTILATION)

6.5.11.1 Type and
.....

Make

6.5.11.2 Continuous kW
.....

6.5.11.3 Speed of motor
.....

6.5.11.4 Type of bearings
.....

6.5.11.5 Type of enclosures
.....

6.5.11.6	Supply voltage and frequency	.....
6.5.11.7	Continuous rating temperature rise	.....
6.5.11.8	Type of overload protection	.....
6.5.11.9	Type and	.....
	Make of contactor	.....
6.5.11.10	Contact maximum continuous rating	.....
6.5.11.11	Type of overload protection on contactor	.....
6.5.11.12	Rupturing capacity	.....

6.5.12 AIR REGISTERS

6.5.12.1	Make	.....
	And type	.....
6.5.12.2	Size and	.....
6.5.12.3	Model number	.....
6.5.12.4	Number of registers	.....
6.5.12.5	Air velocity at face and air quantity	.....
6.5.12.6	Throw of register in feet at summer design conditions	.....
6.5.12.7	Drop of register in feet at summer design conditions	.....
6.5.12.8	Air guide vanes and volumes dampers provided	.....
6.5.12.9	Resistance per register in kPa for design air quantities	.....
6.5.12.10	Method of volume damper adjustment	.....

6.6 ANNEXURE F

ANNEXURE TO CLAUSE 4.2.10

TECHNICAL DATA SHEET

CLAUSE 4.2.10.4 VHF RADIOTELEPHONE

Maker's Name	.....
Type of Number	.....
Quoted price	R.....
International Private Channel Set	R.....
International Private Channel Set	R.....
Cost of installation	R.....

CLAUSE 4.2.10.5 RADAR

Maker's Name	.....
Type or Number	.....
Price Quoted (includes hourmeter)	.....
Cost of installation	R.....

CLAUSE 4.2.10.6 ECHO SOUNDER

Maker's Name	.....
Type or Number	.....
Price Quoted	R.....
Cost of installation	R.....

CLAUSE 4.2.10.7 LOUDHAILER

Description	.....
Price Quoted	.....
Certified Intrinsically Safe	.....

CLAUSE 4.2.10.8 SIGNALLING LAMP

Maker's Name	.....
Type or Number	.....
Quoted price, lamp, charger and Batteries	R.....
Cost of installation	R.....

CLAUSE 4.2.10.9 INTERCOMMUNICATIONS:

TELEPHONE

Maker's Name

Type or Number

Quoted price R.....

Cost of installation R.....

CLAUSE 4.2.10.11 DESCRIPTION

.....

.....

.....

.....

.....

.....

.....

QUOTED PRICE R.....

6.7 ANNEXURE G

ANNEXURE TO CLAUSE 4.2.10

SPECIFICATION NO.

RADIO EQUIPMENT TECHNICAL REQUIREMENTS: STATION

South African
Transport Unit Tenderer's
Services' Offer
Requirement

GENERAL

6.7.1 CHANNEL SPACING 25 kHz

6.7.2 RF IMPEDANCE 50 ohms

6.7.3 CHANNEL SWITCHING BANDWIDTH 1 MHz &
0.5 MHz

6.7.4 FREQUENCY STABILITY
30°C to+ 60°C at reference +25°C) 0,0005 %

6.7.5 RECEIVER

6.7.5.1 20 dB SENSITIVITY (EMF), 8uV

6.7.5.2 12 dB SINAD SENSITIVITY (EMF), 7uV

6.7.5.3 SQUELCH THRESHOLD SENSITIVITY (EMF), 6uV

6.7.6	ADJACENT CHANNEL SELECTIVITY	85dB	.....
	(EIA SINAD)		
6.7.7	SPURIUS RESPONSE ATTENUATION	85dB	.....
6.7.8	INTERMODULATION SPURIOUS		
	ATTENUATION (EIA)	70dB	.....
6.7.9	RECEIVER HUM AND NOISE LEVEL (EIA)	-40dB	.....
6.7.10	AF RESPONSE (true 6dB per octave		
	De-emphasis characteristic, frequency		
	Range 300 – 3000 Hz; relative to 1000Hz)	+2-8dB	.....
6.7.11	AF HARMONIC DISTORTION AT RATED		
	AF OUTPUT	5%	.....
6.7.12	MODULATION ACCEPTANCE BANDWIDTH	6 – 8 kHz	.....
6.7.13	UNDISTORTED AF OUTPUT	2W	.....

6.8 ANNEXURE H

List of materials

Supplier	Description
P&G	
ABR Engineering	
ABR Engineering	1" BS Square plug from SS316L
ABR Engineering	1" BSP hex plug from SS316L
ABR Engineering	Dia 150 stern tube bearing machine to 187.5mm as per drawing
ABR Engineering	V1905-100-002 - DN40 Deck Dowel Detail
Africa Projects	
Africa Projects	To fabricate 2 off exhaust spools DN250 x 4
Africa Projects	To manufacture and fit 16 off M12 brackets.
Africa Projects	To fabricate 2 off exhaust spools DN250 x 4.
Africa Projects	To fabricate 2 off exhaust spools DN250 x 4.
Africa Projects	To fabricate 2 off exhaust spools DN250 x 4.
Africa Projects	To fabricate 2 off exhaust spools DN100 x 4.
Africa Projects	To fabricate 2 off exhaust spools DN100 x 4.
Africa Projects	To fabricate 2 off exhaust spools DN100 x 4.
Africa Projects	To fabricate 2 off exhaust spools DN100 x 4
Africa Projects	To manufacture 2 off special flanges.
Africa Projects	To manufacture 2 off 10" + 4" pad piece.
Africa Projects	To manufacture 2 off 10" + 4" pipe clamps.
Africa Projects	To manufacture 2 off DN250 Foundations. (Main Eng)
Africa Projects	To manufacture 2 off DN100 Foundations. (Main Eng)
Africa Projects	Piping systems – SWBS 500
Bright Idea Projects 2861CC T/A Africa Projects	To fabricate 2 off exhaust spools DN250 x 4
Alvedoor	
Alvedoor	B300043/46 Galv.steel/Galv.steel with Kick-out plate and V. grilles
Anchor Industries	
Anchor Industries	BOW SHACKLE 55.OT SAFETY PIN - GREEN PIN
Atlas Steel Buildings	
Atlas Steel Buildings	Open and Closing of +-10x10m area
Atlas Steel Buildings	Open and Closing of +-10x10m area
Bureau Veritas	
Bureau Veritas	EXAMINATION AND ISSUE OF ATTESTATION FOR DECK LOADING.
Bureau Veritas	Plan Review and Approval - 20% Completion of First Review
Bureau Veritas	Plan Review and Approval - 20% Completion of Systems Review
Bureau Veritas	Plan Review and Approval - 20% Deposit
Bureau Veritas	Plan Review and Approval - 40% Receiving Approved Drawings
Bureau Veritas	Yard Surveys - 20% at completion and before delivery of class certificates
Bureau Veritas	Yard Surveys - 20% at Launching
Bureau Veritas	Yard Surveys - 20% at Sea Trial
Bureau Veritas	Yard Surveys - 20% on Signing of contract
Bureau Veritas	Yard Surveys - 20% Thirty (30) days after keel laying
Bureau Veritas	Plan Review and Approval - 20% Deposit

Bureau Veritas	Plan Review and Approval - 20% Completion of First Review
Bureau Veritas	Plan Review and Approval - 20% Completion of Systems Review
Bureau Veritas	Plan Review and Approval - 40% Receiving Approved Drawings
Bureau Veritas	Yard Surveys - 20% on Signing of contract
Bureau Veritas	Yard Surveys - 20% Thirty (30) days after keel laying
Bureau Veritas	Yard Surveys - 20% at Launching
Bureau Veritas	Yard Surveys - 20% at Sea Trial
Bureau Veritas	Yard Surveys - 20% at completion and before delivery of class certificates
Bureau Veritas	EXAMINATION AND ISSUE OF ATTESTATION FOR DECK LOADING.
Charlson Import Agencies t/a Charlson Pumps	
Charlson Import Agencies t/a Charlson Pumps	Grundfos CMBE 3-62
Charlson Import Agencies t/a Charlson Pumps	Grundfos CMBE 3-62
CHG Engineering	
CHG Engineering	Cable Ladder 150mmW x 3m Steel - Blasted & primed
CHG Engineering	Cable Ladder 300mmW x 3m Steel - Blasted & primed
Cinco Engineering	
Cinco Engineering	1905-200-25-s1rC DOCKING CRADLE
Cinco Engineering	Anchor Pocket
Cinco Engineering	Anodes
Cinco Engineering	Bow Staple
Cinco Engineering	Dead man posts
Cinco Engineering	Doors & Hatches
Cinco Engineering	Engine Rail
Cinco Engineering	Fenders
Cinco Engineering	Foundation for CO2 Cylinder
Cinco Engineering	Frame foundations
Cinco Engineering	General
Cinco Engineering	HOLD-DOWN ME & GEARBOX
Cinco Engineering	MONTHLY RENTAL FACTORY. Area 22m X 21.4m
Cinco Engineering	Set-up & Preparation
Cinco Engineering	Set-up and Preparation
Cinco Engineering	Shaftline housing & A-Brackets - Critical with Hold points &
Cinco Engineering	Shaftline housing & A-Brackets-Critical with Hold points & Client Intervention
Cinco Engineering	Sterngear
Cinco Engineering	Supply, fabricate and install 2-off lifting points on the centre cradle as per drawing 1905-200-25-s
Cinco Engineering	Tugboat Fabrication Material Supply - March - April 2022
Cinco Engineering	Wheelhouse to Deck
Cinco Engineering	MONTHLY RENTAL FACTORY. Area 22m X 21.4m
Cinco Engineering	Set-up and Preparation
Cinco Engineering	Wheelhouse to Deck
Cinco Engineering	Doors & Hatches
Cinco Engineering	Sterngear
Cinco Engineering	Fenders
Cinco Engineering	Anchor Pocket

Cinco Engineering	Bow Staple
Cinco Engineering	Anodes
Cinco Engineering	Supply, fabricate and install 2-off lifting points on the centre cradle as per drawing 1905-200-25-s
Cinco Engineering	1905-200-25-s1rC DOCKING CRADLE
Consortium	
Consortium	1,00 x 1 Pair OAM FR Black
Consortium	1,00 x 1 Pair OAM FR Black PVC
Consortium	1,00 x 12 Pair I/OAM FR Black PVC
Consortium	1,00 x 2 Pair I/OAM FR Black PVC
Consortium	1,00 x 4 Pair I/OAM FR Black PVC
Consortium	1,50mm Panelwire Black
Consortium	1,50mm Panelwire Red
Consortium	10,00mm Panelwire Black
Consortium	16,00mm Panelwire Black
Consortium	1x120,00mm Xtrem H07Rn-F
Consortium	1x35,00mm Xtrem H07Rn-F
Consortium	1x70,00mm Xtrem H07Rn-F
Consortium	2,50mm Panelwire Black
Consortium	2,50mm Panelwire Red
Consortium	2x1,50mm Powerflex RV-K
Consortium	2x2,50mm Xtrem H07Rn-F
Consortium	2x4,00mm Powerflex RV-K
Consortium	3G1,50mm Powerflex RV-K
Consortium	3G4,00mm Xtrem H07Rn-F
Consortium	3x6,00mm Xtrem H07Rn-F
Consortium	4,00mm Panelwire Black
Consortium	4G16,00mm Powerflex RV-K
Consortium	4G2,50mm Powerflex RV-K
Consortium	4G25,00mm Xtrem H07Rn-F
Consortium	4G35,00mm Powerflex RV-K
Consortium	4G4,00mm Powerflex RV-K
Consortium	4G50,00mm Powerflex RV-K
Consortium	4G6,00mm Powerflex RV-K
Consortium	6,00mm Panelwire Black
Consortium	CAT5 FTP PVC Grey
Consortium	1,00 x 1 Pair OAM FR Black PVC
Consortium	1,00 x 2 Pair I/OAM FR Black PVC
Consortium	1,00 x 4 Pair I/OAM FR Black PVC
Consortium	1,00 x 12 Pair I/OAM FR Black PVC
Consortium	CAT5 FTP PVC Grey
Consortium	1,50mm Panelwire Red
Consortium	1,50mm Panelwire Black
Consortium	2,50mm Panelwire Red
Consortium	2,50mm Panelwire Black
Consortium	4,00mm Panelwire Black
Consortium	6,00mm Panelwire Black

Consortium	10,00mm Panelwire Black
Consortium	16,00mm Panelwire Black
Consortium	1x35,00mm Xtrem H07Rn-F
Consortium	1x70,00mm Xtrem H07Rn-F
Consortium	1x120,00mm Xtrem H07Rn-F
Consortium	2x1,50mm Powerflex RV-K
Consortium	2x2,50mm Xtrem H07Rn-F
Consortium	2x4,00mm Powerflex RV-K
Consortium	3G1,50mm Powerflex RV-K
Consortium	1,00 x 1 Pair OAM FR Black
Consortium	3G4,00mm Xtrem H07Rn-F
Consortium	3x6,00mm Xtrem H07Rn-F
Consortium	4G2,50mm Powerflex RV-K
Consortium	4G4,00mm Powerflex RV-K
Consortium	4G6,00mm Powerflex RV-K
Consortium	4G16,00mm Powerflex RV-K
Consortium	4G25,00mm Xtrem H07Rn-F
Consortium	4G35,00mm Powerflex RV-K
Consortium	4G50,00mm Powerflex RV-K
Consortium	1,00 x 1 Pair OAM FR Black PVC
Consortium	1,00 x 2 Pair I/OAM FR Black PVC
Consortium	1,00 x 4 Pair I/OAM FR Black PVC
Consortium	1,00 x 12 Pair I/OAM FR Black PVC
Consortium	CAT5 FTP PVC Grey
Consortium	1,50mm Panelwire Red
Consortium	1,50mm Panelwire Black
Consortium	2,50mm Panelwire Red
Consortium	2,50mm Panelwire Black
Consortium	4,00mm Panelwire Black
Consortium	6,00mm Panelwire Black
Consortium	10,00mm Panelwire Black
Consortium	16,00mm Panelwire Black
Consortium	1x35,00mm Xtrem H07Rn-F
Consortium	1x70,00mm Xtrem H07Rn-F
Consortium	1x120,00mm Xtrem H07Rn-F
Consortium	2x1,50mm Powerflex RV-K
Consortium	2x2,50mm Xtrem H07Rn-F
Consortium	2x4,00mm Powerflex RV-K
Consortium	3G1,50mm Powerflex RV-K
Consortium	1,00 x 1 Pair OAM FR Black
Consortium	3G4,00mm Xtrem H07Rn-F
Consortium	3x6,00mm Xtrem H07Rn-F
Consortium	4G2,50mm Powerflex RV-K
Consortium	4G4,00mm Powerflex RV-K
Consortium	4G6,00mm Powerflex RV-K
Consortium	4G16,00mm Powerflex RV-K
Consortium	4G25,00mm Xtrem H07Rn-F
Consortium	4G35,00mm Powerflex RV-K

Consortium	4G50,00mm Powerflex RV-K
Cummins	
Cummins	Cummins Model: 4BTA3.9- DM, 47kW @ 1500RPM, 50kVA 50Hz 400V
Cummins	Main Engine K-38 M 1000HP@18000RPM Keel Cooled
Cummins	Mounting type 4TT1X and front engine mounting
Cummins	Main Engine K-38 M 1000HP@18000RPM Keel Cooled
Cummins	Main Engine K-38 M 1000HP@18000RPM Keel Cooled
Cummins	Cummins Model: 4BTA3.9- DM, 47kW @ 1500RPM, 50kVA 50Hz 400V
Cummins	Mounting type 4TT1X and front engine mounting
Den Haan Rotterdam BV	
Den Haan Rotterdam BV	180UCL11 94054210/NL DHR180 RC Searchlight - Square base
Den Haan Rotterdam BV	UC02 85371098/NL Control panel UC, 12 - 24V DC 12W
Deyuan Marine	
Deyuan Marine	Warping Roller ISO13755 -B200
Deyuan Marine	Warping Roller ISO13755 -B200
Dickinson Industrial	
Dickinson Industrial	INSULATION PIN 3MM X 120MM LONG MILD STEEL
Dickinson Industrial	INSULATION PIN 3MM X 120MM LONG MILD STEEL
Digi-lec Automation	
Digi-lec Automation	1905-301-S1-001
Digi-lec Automation	1905-301-S1-002/008
Digi-lec Automation	1905-301-S2-001/013
Digi-lec Automation	1905-301-S3-001/011
Digi-lec Automation	1905-301-S4-001
Digi-lec Automation	1905-301-S5-001
Digi-lec Automation	1905-301-S6-001
Digi-lec Automation	1905-301-S7-001
Digi-lec Automation	2 x 16KVA (Single Phase) 16KVA - 400KG (+-)
Digi-lec Automation	Transformers 1 x 56KVA (Three Phase) 56KVA - 320KG (+-)
Digi-lec Automation	2 x 16KVA (Single Phase) 16KVA - 400KG (+-)
Digi-lec Automation	1905-301-S1-001
Digi-lec Automation	1905-301-S1-002/008
Digi-lec Automation	1905-301-S2-001/013
Digi-lec Automation	1905-301-S3-001/011
Digi-lec Automation	1905-301-S4-001
Digi-lec Automation	1905-301-S5-001
Digi-lec Automation	1905-301-S6-001
Digi-lec Automation	1905-301-S7-001
Digi-lec Automation	Transformers 1 x 56KVA (Three Phase) 56KVA - 320KG (+-)
Digi-lec Automation	2 x 16KVA (Single Phase) 16KVA - 400KG (+-)
Donkin Fans	
Donkin Fans	Majax-2 - Cased Axial Fan, Adjustable Pitch, External T/Box
Donkin Fans	Majax-2 - Cased Axial Fan, Adjustable Pitch, External T/Box - Fan Set
Donkin Fans	Majax-2 - Cased Axial Fan, Adjustable Pitch, External T/Box - Fan Set
Donkin Fans	Majax-2 - Cased Axial Fan, Adjustable Pitch, External T/Box
Eriks	

Eriks	3 way valve L type - 11814266
Eriks	3 way valve L type - 11814267
Eriks	BALL VALVE - 12439117
Eriks	BUTTERFLY VALVE I WAFER I - 11814139
Eriks	BV approval costs for estimated 13 items (Column G; yess)
Eriks	Check Valve - 13202947
Eriks	FLANGED BUTTERFLY VALVE - 13508810
Eriks	GATE VALVE - 11810868
Eriks	HYDRANT RA - 13506976
Eriks	MUD BOX - 11812024
Eriks	MUD BOX - 13215270
Eriks	PRESSURE GAUGE 0 to 10 bar - 12035825
Eriks	PRESSURE GAUGE 0 to 6 bar - 12035824
Eriks	PRESSURE GAUGE 0 to 6 bor - 12035824
Eriks	Pressure gauge 0-6bar - 12035824
Eriks	PRESSURE GAUGE COCK VALVE - 11810987
Eriks	PRESSURE RELIEF VALVE SET @ 8.5bar - 13480102
Eriks	PRESSURE RELIEF VALVE SET @ 8.5bar - 13480103
Eriks	QUICK CLOSING - 11810550
Eriks	QUICK CLOSING - 11810551
Eriks	RA STRAINER MUD BOX - 13453561
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	SDNR GLOBE VALVE - 13360014
Eriks	SDNR GLOBE VALVE - 13360015
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	SDNR GLOBE VALVE - 13360017
Eriks	SDNR GLOBE VALVE - 13508834
Eriks	SDNR GLOBE VALVE RA SDNR GLOBE VALVE - 12462228
Eriks	SDNR GLOBE VALVE RA SDNR GLOBE VALVE - 12711790
Eriks	SDNR RA GLOBE VALVE - 12711790
Eriks	SDSL GLOBE VALVE - 11810822
Eriks	SDSL GLOBE VALVE - 11812121
Eriks	SDSL GLOBE VALVE - 13360002
Eriks	SDSL GLOBE VALVE - 13360003
Eriks	SDSL GLOBE VALVE - 13360006
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	SDSL GLOBE VALVE - 13360008
Eriks	SDSL GLOBE VALVE - 13360009
Eriks	SDSL GLOBE VALVE - 13508826
Eriks	SIGTH GLASS (OVERFLOW! - 11813447
Eriks	Sounding cock - 12579273
Eriks	SOUNDING COCK + CAP - 5
Eriks	Storm valve - 11812050
Eriks	STRAINER - 11812024
Eriks	Strum Box - - 12649209

Eriks	STRUM BOX - 12649209
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	WAFER BUTTERFLY VALVE - 11814139
Eriks	WAFER BUTTERFLY VALVE - 13332822
Eriks	WAFER BUTTERFLY VALVE - 13410097
Eriks	Y-STRAINER - 11811895
Eriks	Y-STRAINER - 11811896
Eriks	Y-STRAINER - 11811897
Eriks	Y-STRAINER 0.25mm mesh (30 BARI 0 - 1181001+12394615
Eriks	SDSL GLOBE VALVE - 11810822
Eriks	SDNR GLOBE VALVE - 13360015
Eriks	SDNR GLOBE VALVE - 13360014
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	PRESSURE GAUGE 0 to 6 bar - 12035824
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	SDSL GLOBE VALVE - 13360002
Eriks	SDSL GLOBE VALVE - 13360009
Eriks	SDSL GLOBE VALVE - 11812121
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	SDSL GLOBE VALVE - 13360003
Eriks	Strum Box - - 12649209
Eriks	SDNR RA GLOBE VALVE - 12711790
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	STRAINER - 11812024
Eriks	SDNR GLOBE VALVE - 13360015
Eriks	PRESSURE GAUGE 0 to 6 bar - 12035824
Eriks	SDSL GLOBE VALVE - 11810822
Eriks	SDNR GLOBE VALVE - 13360014
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	SDSL GLOBE VALVE - 13360002
Eriks	SOUNDING COCK + CAP - 5
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	SDSL GLOBE VALVE - 13360006
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	QUICK CLOSING - 11810551
Eriks	QUICK CLOSING - 11810550
Eriks	GATE VALVE - 11810868
Eriks	SIGHT GLASS (OVERFLOW! - 11813447
Eriks	Y-STRAINER - 11811895
Eriks	Y-STRAINER - 11811896
Eriks	STRUM BOX - 12649209

Eriks	MUD BOX - 11812024
Eriks	MUD BOX - 13215270
Eriks	SDNR GLOBE VALVE RA SDNR GLOBE VALVE - 12711790
Eriks	SDNR GLOBE VALVE RA SDNR GLOBE VALVE - 12462228
Eriks	SDNR GLOBE VALVE - 13360017
Eriks	SDSL GLOBE VALVE - 13360009
Eriks	SDSL GLOBE VALVE - 13360008
Eriks	SDSL GLOBE VALVE - 11812121
Eriks	PRESSURE GAUGE 0 to 6 bar - 12035824
Eriks	HYDRANT RA - 13506976
Eriks	Y-STRAINER - 11811897
Eriks	FLANGED BUTTERFLY VALVE - 13508810
Eriks	RA STRAINER MUD BOX - 13453561
Eriks	WAFER BUTTERFLY VALVE - 13332822
Eriks	WAFER BUTTERFLY VALVE - 13410097
Eriks	WAFER BUTTERFLY VALVE - 11814139
Eriks	3 way valve L type - 11814266
Eriks	Storm valve - 11812050
Eriks	Check Valve - 13202947
Eriks	Sounding cock - 12579273
Eriks	Pressure gauge 0-6bar - 12035824
Eriks	SDNR GLOBE VALVE - 13508834
Eriks	SDSL GLOBE VALVE - 13508826
Eriks	SDSL GLOBE VALVE - 13360003
Eriks	PRESSURE GAUGE COCK VALVE - 11810987
Eriks	PRESSURE GAUGE 0 to 10 bar - 12035825
Eriks	PRESSURE RELIEF VALVE SET @ 8.5bar - 13480102
Eriks	Strum Box - - 12649209
Eriks	SDNR RA GLOBE VALVE - 12711790
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	STRAINER - 11812024
Eriks	BALL VALVE - 12439117
Eriks	SDNR GLOBE VALVE - 13360015
Eriks	PRESSURE GAUGE 0 to 6 bar - 12035824
Eriks	SDSL GLOBE VALVE - 11810822
Eriks	SDNR GLOBE VALVE - 13360014
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	SDSL GLOBE VALVE - 13360002
Eriks	SOUNDING COCK + CAP - 5
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	SDSL GLOBE VALVE - 13360006
Eriks	SDSL GLOBE VALVE - 11810822
Eriks	SDNR GLOBE VALVE - 13360015
Eriks	SDNR GLOBE VALVE - 13360014
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	PRESSURE GAUGE 0 to 6 bar - 12035824
Eriks	QUICK CLOSING - 11810551

Eriks	QUICK CLOSING - 11810550
Eriks	GATE VALVE - 11810868
Eriks	SIGTH GLASS (OVERFLOW! - 11813447
Eriks	Y-STRAINER - 11811895
Eriks	Y-STRAINER - 11811896
Eriks	STRUM BOX - 12649209
Eriks	MUD BOX - 11812024
Eriks	MUD BOX - 13215270
Eriks	SDNR GLOBE VALVE RA SDNR GLOBE VALVE - 12711790
Eriks	SDNR GLOBE VALVE RA SDNR GLOBE VALVE - 12462228
Eriks	SDNR GLOBE VALVE - 13360017
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	SDSL GLOBE VALVE - 13360009
Eriks	SDSL GLOBE VALVE - 13360008
Eriks	SDSL GLOBE VALVE - 11812121
Eriks	BUTTERFLY VALVE I WAFER I - 11814139
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	PRESSURE GAUGE 0 to 6 bor - 12035824
Eriks	HYDRANT RA - 13506976
Eriks	Y-STRAINER - 11811897
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	SDSL GLOBE VALVE - 13360002
Eriks	SDSL GLOBE VALVE - 13360009
Eriks	SDSL GLOBE VALVE - 11812121
Eriks	VACUUM GAUGE -1 to 0 bar - 12035813
Eriks	FLANGED BUTTERFLY VALVE - 13508810
Eriks	RA STRAINER MUD BOX - 13453561
Eriks	WAFER BUTTERFLY VALVE - 13332822
Eriks	WAFER BUTTERFLY VALVE - 13410097
Eriks	WAFER BUTTERFLY VALVE - 11814139
Eriks	SDNR GLOBE VALVE - 13360016
Eriks	3 way valve L type - 11814267
Eriks	3 way valve L type - 11814266
Eriks	Storm valve - 11812050
Eriks	Check Valve - 13202947
Eriks	Sounding cock - 12579273
Eriks	SDSL GLOBE VALVE - 13360007
Eriks	Pressure gauge 0-6bar - 12035824
Eriks	SDNR GLOBE VALVE - 13508834
Eriks	SDSL GLOBE VALVE - 13508826
Eriks	SDSL GLOBE VALVE - 13360003
Eriks	PRESSURE GAUGE COCK VALVE - 11810987
Eriks	PRESSURE GAUGE 0 to 10 bar - 12035825
Eriks	SDNR GLOBE VALVE - 13360013
Eriks	SDSL GLOBE VALVE - 13360003
Eriks	Y-STRAINER 0.25mm mesh (30 BARI 0 - 1181001+12394615
Eriks	PRESSURE RELIEF VALVE SET @8.5bar - 13480102
Eriks	BV approval costs for estimated 13 items (Column G; yess)

Fastenright	
Fastenright	16 DIN 125A FLAT WASHER SIM ISO 7089 HDG
Fastenright	16 mm HEX SELF LOCKING NYLOC NUTS GR.6
Fastenright	16MM HEX FULL BUTS COMMERCIAL GR.8 H/T HDG
Fastenright	16X1000 FULL THREADED RODS GR 8.8 H/T HDG
Fastenright	18 DIN 125A FLAT WASHER SIM ISO 7089 Z/P
Fastenright	18 mm HEX SELF LOCKING NYLOC NUTS GR 8.8 H/T
Fastenright	18 PLAIN FLAT WASHER BS 4320B Z/P
Fastenright	18806 12MM HEX SELF LOCKING NYLOC NUTS GR. 6
Fastenright	18X1000 FULL THREADED RODS GR 8.8 H/T Z/P
Fastenright	18x50 HEX SETSCREWS FULL THREAD. GR. 8.8 H/T
Fastenright	2454 12X70 MILD STEEL HEX SET SCREWS Z/P
Fastenright	HEX FULL NUTS COMMERCIAL GR.8 H/T Z/P
Femserve	
Femserve	0.4897 x Fabrication of steelwork and installation onboard vessel (2nd vessel only)
Femserve	0.9794 Fabrication of Steelwork and Installation onboard
Femserve	1 x Additional welding (for 4x rudder blades)
Femserve	1 x Additional work for cut outs to existing frames, stiffeners and hull
Femserve	1 x Bureau Veritas to witness PQR mechanical testing
Femserve	1 x Bureau Veritas to endorse 316 SS to 316 SS butt weld WPS
Femserve	1 x Bureau Veritas to endorse 316 SS to Grade A butt weld WPS
Femserve	1 x DWG 1905-200-20-S3 rev.0: Flush Manhole Detail (WB2 only)
Femserve	1 x DWG 1905-312-13: DEADMAN REVISIONS
Femserve	1 x DWG 1905-322-02 rev.0: Foundation for CO2 Cylinder in CO2 Locker (WB2 only)
Femserve	1 x DWG 1905-450-03 rev.0: Engine Room Soft-Patches (WB2 only)
Femserve	1 x DWG 1905-450-04 rev.0: Bulwark Gates (WB2 only)
Femserve	1 x DWG 1905-520-03: ENGINE LIFTING RAIL
Femserve	1 X INSTALLATION OF FENDERING STEELWORK ON WORKBOAT 2
Femserve	1 x Laser Alignment Confirmation
Femserve	1 x Non Destructive Testing (UT/ MT 100%)
Femserve	1 x Qualify all-positional 316 S/S to 316 S/S butt weld WPS
Femserve	1 x Re- Cut Flatbar
Femserve	1 x Suply cut to size parts for Tow Staple (2nd vessel only)
Femserve	1 x Supply cut to size parts for Capstain Foundation (2nd vessel
Femserve	1 x Supply cut to size parts for FWD Bollard Foundation (2nd
Femserve	1 x Supply cut to size parts for Gob Wire Foundation (2nd vessel
Femserve	1 x Supply cut to size parts for Ship's Lifting Lugs (2nd vessel only)
Femserve	1 x Supply Lloyds Gr. A/ 20mm thick plate x 2400 x 5000 lg. for
Femserve	1 x Supply of 32NB Sch.40 Seamless Pipe for storm handrailing 1. x 6m
Femserve	1 x Supply of Cut to size parts for revised Tow Staple
Femserve	1 x Supply of Temporary Bracing
Femserve	1 x Supply of Vesconite, RB 25 x 100 lg for Bulwark Gates
Femserve	1 x Wood for Docking Cradles
Femserve	1 x Workshop Labour
Femserve	1 xx Qualify all-positional 316 SS Grade A butt weld WPS
Femserve	1.086 x Hot Dip Galvanizing of Pins (for both vessels)

Femserve	10% All Small Steels Fabricated
Femserve	10% Completion of Wheelhouse
Femserve	10% Keel Laying
Femserve	10% Signing of Contract
Femserve	10% Turn Bottom Unit
Femserve	11.639 x Fabrication (for both vessels)
Femserve	12.2 x Docking Cradles for TNPA Vessels
Femserve	15% Completion of Hull
Femserve	16X MOUSE HOLES FOR HULL PLATES & INSERT PLATES - CUTTING OF MOUSE HOLES INSTIFFNERS ON UNIT 2
Femserve	17X CUT OUTS FOR DOCKING PLUGS - MARK AND CUT HOLES IN HULL AND DECK TO SUIT THE INSTALLATION OF
Femserve	18 x Item 2 Square Nut st/st - for Docking Plug
Femserve	18X CUT OUTS FOR MANHOLES DIA 600X400 - MARK AND CUT OPENINGS AND GRIND CLEAN AFTER CUTTING
Femserve	1X CUT OUT FOR DECK INSERT PLATES - CUT OUT FOR CAPSTAN FOUNDATION INSERT PLATE, PART 1, 830X830
Femserve	1X CUT OUT FOR DOOR OPENING - IN BULKHEAD AT FR.17, 700X1850
Femserve	1X CUT OUT FOR DOOR OPENING - IN BULKHEAD AT FR.2, 600X1600
Femserve	1X CUT OUT FOR DOOR OPENING - IN BULKHEAD AT FR.21, 700X1850
Femserve	1X CUT OUT OF DOOR OPENING - IN BULKHEAD AT FR.6, 600X1750
Femserve	1X CUT OUTS FOR DECK INSERT PLATES - CUT OUT FOR GOBWIRE FOUNDATION INSERT PLATE, PART20, 1150X2010
Femserve	1X CUT OUTS FOR DECK INSERT PLATES - CUT OUT FOR TOW STAPLE INSERT PLATE, PART 32, 1826X2208
Femserve	1X CUT OUTS FOR DOORS AND HATCHES - CUT OUT FOR STORAGE UNDERNEATH STRAIRCASE, 600X600
Femserve	1x Installation of Tow Arch & Gate for Workboat 2
Femserve	1X REMOVE THE REMOVE A SECTION ON THE 3950 BRESTHOOK FOR WELDING ACCESS
Femserve	1X ROLLING AND FITTING INCORRECTLY PROFILE CUT STAINLESS STEEL PLATE, UNIT 3, PART 1
Femserve	2 x Additional work for welding full penetration welds instead of
Femserve	2 x Application of transition bevels on 40mm thick plates (per
Femserve	2 x DWG 1905-312-10: FAIRLEAD POSITIONS
Femserve	2 x DWG 1905-313-04: STEERING HYDR. CYL. TRUNNION FOOT
Femserve	2 x DWG 1905-322-03: ENGINE ROOM AIR INLET FOUNDATION/ SHUT-OFF FLAP
Femserve	2 x DWG 1905-722-04: MAIN ENGINE SILENCER FOUNDATION
Femserve	2 x DWG 1905-722-07: GENERATOR SILENCER FOUNDATION
Femserve	2 x DWG 1905-725-02: COOLING PIPING SYSTEM SEACHEST CROSOVER
Femserve	2 x DWG 1905-830-03: SHIP'S BELL FOUNDATION
Femserve	2 x Fabrication (For both Vessel)
Femserve	2 x Fabrication (for both vessels)
Femserve	2 x Fabrication of steel work and installtion onboard Vessel
Femserve	2 x Installation onboard vessel (per vessel)
Femserve	2 x M.E./ GENY EXHAUST PAD & PIPE CLAMP
Femserve	2 x NDT - MPI 100% (per vessel)
Femserve	2 x NDT - UT 100% instead of MPI 100% (difference in cost per

Femserve	2 x Shot Blast & Prime (For both Vessels)
Femserve	2 x Shot blast and prime (15.92M2/each)
Femserve	2 x Supply of A106B/ SMLS PIPE 350NB SCH.XS x 1478 (Shaftline Housing Detail)
Femserve	2 x Supply of cut to size material
Femserve	2 x Supply of Deck & Web Insert Plates - 20 THK (per vessel)
Femserve	2 x Supply of LGA/ PLT 12 x 80 x 220 (Shaftline Housing Detail)
Femserve	2 x Supply of LGA/ PLT 16 x 133 x 1272 (Stern Tube Mounting)
Femserve	2 x Supply of LGA/ PLT 16 x 425 x 450 (Stern Tube Mounting)
Femserve	2 x Supply of Material (for both vessels)
Femserve	2 x Supply of S355J2+N/ PLT 50 x 350 x 583 (A-Bracket)
Femserve	2 x Supply of S355J2+N/ PLT 50 x 350 x 703 (A-Bracket)
Femserve	2 x Supply of S355J2+N/ PLT 50 x 350 x 707 (A-Bracket)
Femserve	2 x Supply of S355J2+N/ PLT 50 x 350 x 802 (A-Bracket)
Femserve	20% QC sign on Hull and, Wheelhouse and Small Steels
Femserve	202.24 x Shot Blast & Prime (for both vessels)
Femserve	21.46 x Shot Blast and prime
Femserve	26 x Item 3 Docking Pads
Femserve	26 x Item 4 Copper Washer for Docking Plug
Femserve	28.64 x Shot Blast & Prime (for both vessels)
Femserve	2X CUT OUTS FOR DECK INSERT PLATES - CUT FOR SINGLE MORRING BOLLARDS, PART 5, X373X373
Femserve	2X CUT OUTS FOR DECK INSERT PLATES - CUT OUTS FOR DOUBLE MOORING BOLLARD, PART 8, 580X1430
Femserve	2X CUT OUTS FOR DECK INSERT PLATES - CUT OUTS FOR FWD BOLLARD FOUNDATION INSERT PLATES, PART 8, 936X
Femserve	2X CUT OUTS FOR HUL INSERT PLATES - CUT OUTS FOR SEACHEST INSERT PLATES, PART 82, 558X838
Femserve	2X CUT OUTS FOR HULL INSERT PLATES - CUT OUTS FOR A-BRACKET INSERT PLATES, PART 91, 351X885
Femserve	2X CUT OUTS FOR HULL INSERT PLATES - CUT OUTS FOR A-BRACKET INSERT PLATES, PART 92, 345X929
Femserve	2X CUT OUTS FOR HULL INSERT PLATES - CUT OUTS FOR RUDDER INSERT PLATES, PART 90, 701X1414
Femserve	2X CUT OUTS FOR HULL INSERT PLATES - CUT OUTS FOR SHAFT HOUSING INSERT PLATES, 655X2092
Femserve	2X CUT OUTS FOR MANHOLES DIA 400 - MARK AND CUT OPENENINGS AND GRIND CLEAN AFTER CUTTING
Femserve	2X CUT OUTS FOR WELD ACCESS - PORT & STBD SIDE BETWEEN FR. 26 & FR.27
Femserve	2X CUT OUTS FOR WELD ACCESS - PORT & STBD SIDE BETWEEN FR.30 & FR.31
Femserve	2X FITTING AND WELDING OF COMPLETED AFT GUIDE POST - A & B SUB ASSEMBLIES ON TO DECK INSERT PLATES
Femserve	2X MARKING, CUTTING HOLES IN DECK PLATE, INSTALLATION AND WELDING OF GUIDE POST INSERT PLATES, PART
Femserve	2x4000x240x16mm Lloyds Grade A Insert
Femserve	3.1732 x Fabrication (for both vessels)
Femserve	4 x Machine 16x16 weld prep chamfer on flange and 25mm radius between shaft and flange (per rudder b
Femserve	4 x Machine weld prep to shaft for full penetration welds between shafts and flanges (per rudder bla

Femserve	4 x MARKING, CUTTING HOLES IN DECK PLATE, INSTALLATION AND WELDING OF DEADMEN INSERT PLATES, PART 12
Femserve	48X PIPE SLEEVE PENETRATIONS - MARK AND CUT HOLES IN BULKHEAD AND DECK TO SUIT THE INSTALLATION OF
Femserve	4X FITTING AND WELDING OF COMPLETED DEADMEN A & B SUB ASSEMBLIES ON TO INSERT PLATES
Femserve	5% Completion of Bulwark and Fitted
Femserve	5% Fitting of Skeg Complete
Femserve	5% Loaded for delivery to Veecraft
Femserve	5.652 x Profile Cutting of 20mm Plate (for both vessels)
Femserve	52 X MOUSE HOLES FOR HULL PLATES & INSERT PLATES - CUTTING OF MOUSE HOLES IN STIFFNERS ON UNIT 3
Femserve	8 x Item 1 - Flush Deck Socket
Femserve	8 x Item 1 Hex Plug st/st for Docking Plug
Femserve	8 x Item 2 Flush Deck Plug
Femserve	8 x Item 3 Washer for Flush Deck Plug
Femserve	8 x Supply of Machined En8B/ RB OD 200 x ID 95 x 215mm lg.
Femserve	924 x Jacking Brackets
Femserve	added funnels
Femserve	added shape changes
Femserve	Additional Work done to Workboat 1 as per Job Reference J210500235
Femserve	Additional work for cut outs to existing frames, stiffeners and hull steework
Femserve	Additionalwork for joining of 300NB sch,40 pipe
Femserve	adjusted weight delta
Femserve	Blasting and priming of bulwark pipes
Femserve	Cutting of 2 manholes on through holes
Femserve	Cutting of 3 x 12mm Plates LGA
Femserve	Exhaust Funnels
Femserve	fabrication (per Vessel)
Femserve	Fabrication of Steel Work
Femserve	Fabrication of steel work and installation onboard vessels
Femserve	Fabrication of Steelwork and Installation onboard vessel
Femserve	Manufacture and install Ramp
Femserve	Manufacture of 1 set rudders and bossings
Femserve	Manufacture of two x hull superstructure and small steels (mild steel only)
Femserve	Manufacture TNPA CT 19M Workboat - As per contract (Superstructure and small steels Mild steel only)
Femserve	NDT - MPI 100%
Femserve	NDT - MT 100% (per vessel)
Femserve	Plate and Profile Shaping
Femserve	Plate and Profile sharing
Femserve	Reworks done to Workboat 1 as per Job reference J210500236
Femserve	Ship Lifting Lugs - Additional Work as per Job Referece: J210500237
Femserve	Shot Blast & Prime
Femserve	Shot Blast & prime (per vessel)
Femserve	Shot blast and prime
Femserve	Supply and fabricate Deadman posts

Femserve	Supply and manufacture Docking Cradle Jacking Plates for WB2
Femserve	Supply of cut to size Material
Femserve	Supply of cut to size material x 2
Femserve	Supply of cut to size material(plates only)
Femserve	Supply of Gr.316 stainless machines pins for liferaft launching Gate
Femserve	Supply of M20 x 55 machined studs for mahole flanges
Femserve	Supply of Machined En8B/ RB OD 200 x ID 95 x 215mm lg
Femserve	Supply of mild steel round bars for fendering steelwork
Femserve	Supply only and cut to size Gr.316L parts for square Bllge well
Femserve	Supply only and cut to size parts for various small steelwork items
Femserve	Supply only of Round bar 20mm, 13x6m lengths for bulwarks
Femserve	Supply only of various structural angle sections for small steelwork items
Femserve	Supply, Fabrication, Machining & Shot Blast & Priming of Rudder Blades
Femserve	trim off the green of the affected 10mm parts on our CNC plasma machine
Femserve	2 x Supply of Material (for both vessels)
Femserve	2 x Shot Blast & Prime (For both Vessels)
Femserve	2 x Supply of Material (for both vessels)
Femserve	2 x Fabrication (for both vessels)
Femserve	2 x Shot Blast & Prime (For both Vessels)
Femserve	Shot Blast & Prime
Femserve	Cutting of 3 x 12mm Plates LGA
Femserve	Cutting of 2 manholes on through holes
Femserve	12.2 x Docking Cradles for TNPA Vessels
Femserve	1 x Wood for Docking Cradles
Femserve	Blasting and priming of bulwark pipes
Femserve	Manufacture of 1 set rudders and bossings
Femserve	Supply only of Round bar 20mm, 13x6m lengths for bulwarks
Femserve	Supply only and cut to size parts for various small steelwork items
Femserve	Supply only and cut to size Gr.316L parts for square Bllge well
Femserve	Supply only of various structural angle sections for small steelwork items
Femserve	Supply of M20 x 55 machined studs for mahole flanges
Femserve	Supply of Gr.316 stainless machines pins for liferaft launching Gate
Femserve	Supply of mild steel round bars for fendering steelwork
Femserve	26 x Item 3 Docking Pads
Femserve	8 x Item 1 Hex Plug st/st for Docking Plug
Femserve	18 x Item 2 Square Nut st/st - for Docking Plug
Femserve	26 x Item 4 Copper Washer for Docking Plug
Femserve	8 x Item 1 - Flush Deck Socket
Femserve	8 x Item 2 Flush Deck Plug
Femserve	8 x Item 3 Washer for Flush Deck Plug
Femserve	trim off the green of the affected 10mm parts on our CNC plasma machine
Femserve	1 x Qualify all-positional 316 S/S to 316 S/S butt weld WPS
Femserve	1 xx Qualify all-positional 316 SS Grade A butt weld WPS
Femserve	1 x Bureau Veritas to endorse 316 SS to 316 SS butt weld WPS
Femserve	1 x Bureau Veritas to endorse 316 SS to Grade A butt weld WPS
Femserve	1 x Bureau Veritas to witness PQR mechanical testing
Femserve	1 x Supply of Cut to size parts for revised Tow Staple

Femserve	1 x Supply of 32NB Sch.40 Seamless Pipe for storm handrailing 1. x 6m
Femserve	1 x Supply of Vesconite, RB 25 x 100 lg for Bulwark Gates
Femserve	Supply of cut to size material x 2
Femserve	1 x Additional work for cut outs to existing frames, stiffeners and hull
Femserve	21.46 x Shot Blast and prime
Femserve	0.4897 x Fabrication of steelwork and installation onboard vessel (2nd vessel only)
Femserve	Supply of cut to size material(plates only)
Femserve	Fabrication of steel work and installation onboard vessels
Femserve	Additionalwork for joining of 300NB sch,40 pipe
Femserve	Shot blast and prime
Femserve	Supply of Machined En8B/ RB OD 200 x ID 95 x 215mm lg
Femserve	fabrication (per Vessel)
Femserve	NDT - MT 100% (per vessel)
Femserve	Shot Blast & prime (per vessel)
Femserve	Supply and fabricate Deadman posts
Femserve	924 x Jacking Brackets
Femserve	10% Signing of Contract
Femserve	10% Keel Laying
Femserve	10% Turn Bottom Unit
Femserve	10% All Small Steels Fabricated
Femserve	15% Completion of Hull
Femserve	10% Completion of Wheelhouse
Femserve	5% Fitting of Skeg Complete
Femserve	5% Completion of Bulwark and Fitted
Femserve	20% QC sign on Hull and, Wheelhouse and Small Steels
Femserve	5% Loaded for delivery to Veecraft
Femserve	1 x Re- Cut Flatbar
Femserve	2 x Supply of cut to size material
Femserve	2 x Fabrication of steel work and installtion onboard Vessel
Femserve	2 x Shot blast and prime (15.92M2/each)
Femserve	2 x Supply of Material (for both vessels)
Femserve	2 x Fabrication (For both Vessel)
Femserve	2 x Shot Blast & Prime (For both Vessels)
Femserve	2 x Additional work for welding full penetration welds instead of
Femserve	2 x Application of transition bevels on 40mm thick plates (per
Femserve	2 x NDT - UT 100% instead of MPI 100% (difference in cost per
Femserve	2 x Installation onboard vessel (per vessel)
Femserve	2 x Fabrication (for both vessels)
Femserve	1 x Suply cut to size parts for Tow Staple (2nd vessel only)
Femserve	1 x Supply cut to size parts for Gob Wire Foundation (2nd vessel
Femserve	1 x Supply cut to size parts for FWD Bollard Foundation (2nd
Femserve	1 x Supply cut to size parts for Capstain Foundation (2nd vessel
Femserve	1 x Supply cut to size parts for Ship's Lifting Lugs (2nd vessel only)
Femserve	1 x Supply Lloyds Gr. A/ 20mm thick plate x 2400 x 5000 lg. for
Femserve	8 x Supply of Machined En8B/ RB OD 200 x ID 95 x 215mm lg.
Femserve	2 x Supply of Deck & Web Insert Plates - 20 THK (per vessel)
Femserve	3.1732 x Fabrication (for both vessels)

Femserve	2 x NDT - MPI 100% (per vessel)
Femserve	28.64 x Shot Blast & Prime (for both vessels)
Femserve	5.652 x Profile Cutting of 20mm Plate (for both vessels)
Femserve	11.639 x Fabrication (for both vessels)
Femserve	202.24 x Shot Blast & Prime (for both vessels)
Femserve	1.086 x Hot Dip Galvanizing of Pins (for both vessels)
Femserve	NDT - MPI 100%
Femserve	Shot Blast & Prime
Femserve	Supply of cut to size Material
Femserve	Fabrication of Steel Work
Femserve	Manufacture and install Ramp
Femserve	2x4000x240x16mm Lloyds Grade A Insert
Femserve	Additional Work done to Workboat 1 as per Job Reference J210500235
Femserve	Reworks done to Workboat 1 as per Job reference J210500236
Femserve	Ship Lifting Lugs - Additional Work as per Job Referece: J210500237
Femserve	2 x DWG 1905-312-10: FAIRLEAD POSITIONS
Femserve	1 x DWG 1905-312-13: DEADMAN REVISIONS
Femserve	2 x DWG 1905-313-04: STEERING HYDR. CYL. TRUNNION FOOT
Femserve	2 x DWG 1905-322-03: ENGINE ROOM AIR INLET FOUNDATION/ SHUT-OFF FLAP
Femserve	1 x DWG 1905-520-03: ENGINE LIFTING RAIL
Femserve	2 x DWG 1905-722-04: MAIN ENGINE SILENCER FOUNDATION
Femserve	2 x DWG 1905-722-07: GENERATOR SILENCER FOUNDATION
Femserve	2 x M.E./ GENY EXHAUST PAD & PIPE CLAMP
Femserve	2 x DWG 1905-725-02: COOLING PIPING SYSTEM SEACHEST CROSOVER
Femserve	2 x DWG 1905-830-03: SHIP'S BELL FOUNDATION
Femserve	4 x Machine 16x16 weld prep chamfer on flange and 25mm radius between shaft and flange (per rudder b
Femserve	4 x Machine weld prep to shaft for full penetration welds between shafts and flanges (per rudder bla
Femserve	1 x Additional welding (for 4x rudder blades)
Fire & Instrument Services	
Fire & Instrument Services	Design, supply, install and commission a CO2 system for a new workboat currently
Fowkes	
Fowkes	CABLE GALV 6MM
Fowkes	CLAMP WIRE ROPE GALV 6MM - GALVANISED
Fowkes	TURN BUCKLE GALV 8MM - HOOK AND EYE - GALVANISED
Fowkes	CABLE GALV 6MM
Fowkes	CLAMP WIRE ROPE GALV 6MM - GALVANISED
Fowkes	CLAMP WIRE ROPE GALV 6MM - GALVANISED
Fowkes	TURN BUCKLE GALV 8MM - HOOK AND EYE - GALVANISED
Fowkes	CABLE GALV 6MM
Fuse-A-Tron	
Fuse-A-Tron	Additional Controls in e-room with gauges
Fuse-A-Tron	Complete Design, supply, assembly & test
Fuse-A-Tron	Vessel Commissioning – Cape Town:
Fuse-A-Tron	Vessel Commissioning – Sea Going:

Fuse-A-Tron	Vessel Installation – Cape Town
Fuse-A-Tron	Complete Design, supply, assembly & test
Fuse-A-Tron	Additional Controls in e-room with gauges
Fuse-A-Tron	Vessel Installation – Cape Town
Fuse-A-Tron	Vessel Commissioning – Cape Town:
Fuse-A-Tron	Vessel Commissioning – Sea Going:
Fuse-A-Tron	Complete Design, supply, assembly & test
Fuse-A-Tron	Additional Controls in e-room with gauges
Fuse-A-Tron	Vessel Installation – Cape Town
Fuse-A-Tron	Vessel Commissioning – Cape Town:
Fuse-A-Tron	Vessel Commissioning – Sea Going:
Global	
Global	A-Frame Welds PW1,2,3,4
Global	Ultrasonic A-Frame Welds PW1,2,3,4
Global Spec	Conduct MPI on V1905-001 on all external welds situated below water line
Global Spec	Conduct X-Rays (34 shots) at Femserve premises V1905-1-002
Global Spec	Conduct X-rays at Femserve on 26th OCT (12 shots)
Global Spec	Conduct X-rays at Femserve on 27th OCT (7 shots)
Global Spec	Conduct X-rays at Femserve on 29th OCT (2 shots)
Global Spec	Conduct X-rays at Femserve on 2nd NOV (2 shots)
Global Spec	Conduct x-rays at Fenserve (14 shots)
Global Spec	Consumables
Global Spec	GS-4608 magnetic Inspector long & Circ weld - 04/11/2021
Global Spec	GS-4608 magnetic Inspector Side Shell plating - 27/10/2021
Global Spec	GS-4608 magnetic Inspector Side Shell plating - 28/10/2021
Global Spec	Magnetic Particle Inspection
Global Spec	NDT Req. No.: 141-NDT-V2-R2
Global Spec	Perform MPI on weld seams (side shell plating)
Global Spec	Travelling
Global Spec	W11R1 Repair - 26/10/2021
Global Spec	Conduct x-rays at Fenserve (14 shots)
Global Spec	Conduct X-Rays (34 shots) at Femserve premises V1905-1-002
Global Spec	Conduct MPI on V1905-001 on all external welds situated below water line
Global Spec (Pty) Ltd	Magnetic Particle Inspection - long & Circ Weld
Global Spec (Pty) Ltd	Magnetic Particle Inspection - Side Shell Plate
Global Spec (Pty) Ltd	Radiographic Testing
HeadHunter	
HeadHunter	SEWAGE BASKET STRAINER, 2" SOCKET AND FPT ADAPTERS INCLUDED. 3/8 PERF ELEMENT.
HeadHunter	SYM-ZM TANK SENTRY MODULE KIT
HeadHunter	Tidal Wave HMX Sewage Treatment Plant,
HeadHunter	TORTUGA DIAPHRAGM PUMP, 1.5" FPT CONNECTIONS.
HeadHunter	Tidal Wave HMX Sewage Treatment Plant,
HeadHunter	SEWAGE BASKET STRAINER, 2" SOCKET AND FPT ADAPTERS INCLUDED. 3/8 PERF ELEMENT.
HeadHunter	TORTUGA DIAPHRAGM PUMP, 1.5" FPT CONNECTIONS.
HeadHunter	SYM-ZM TANK SENTRY MODULE KIT

Hydac	
Hydac	BV Certification
Hydac	Disc Towing Hock Model type SLTY-20,
Hydac	Model BN1069U-ZE1 (1 per engine)
Hydac	Model CN1245U-ZE1 (1 per engine)
Hydac	Model D1251U-ZE1 (1 per engine)
Hydac	Model D3254U-ZE1 (1 per engine)
Hydac	aft 20KN capstan
Hydac	Estimated Customs Duty Costs
Hydac	Estimated Freight Costs
Hydac	forward anchor windlass
Hydac	hydraulic installation equipment
Hydac	Hydraulic installation,testing and commisioning labour
Hydac	hydraulic power unit
Hydac	knife chain stopper
Hydac	Project management and documentation
Hydac	Sea freight = R 42 145.12 (estimate sea transit time – 25 days, excluding any delays)
Hydac	Model D3254U-ZE1 (1 per engine)
Hydac	Model D1251U-ZE1 (1 per engine)
Hydac	Model CN1245U-ZE1 (1 per engine)
Hydac	Model BN1069U-ZE1 (1 per engine)
Hydac	Disc Towing Hock Model type SLTY-20,
Hydac	BV Certification
Hydac Technologies	hydraulic power unit
Hydac Technologies	forward anchor windlass
Hydac Technologies	aft 20KN capstan
Hydac Technologies	hydraulic installation equipment
Hydac Technologies	Hydraulic installation,testing and commisioning labour
Hydac Technologies	knife chain stopper
Hydac Technologies	Project management and documentation
Hydac Technologies	Estimated Freight Costs
Hydac Technologies	Estimated Customs Duty Costs
Hydac Technologies	Sea freight = R 42 145.12 (estimate sea transit time – 25 days, excluding any delays)
IHC Metalix	
IHC Metalix	Unit 1 and 4 Hull Plates
IHC Metalix	Unit 1 and 4 Hull Plates
IQ Oil Filtration	
IQ Oil Filtration	F2 X 27/27 FILTER INSERTS
IQ Oil Filtration	PACKING SET PTU1 27/108
IQ Oil Filtration	PTU1 27/108 MZ-EPW (FA7608104-4E)
IQ Oil Filtration	PTU1 27/108 MZ-EPW (FA7608104-4E)
IQ Oil Filtration	F2 X 27/27 FILTER INSERTS
IQ Oil Filtration	PACKING SET PTU1 27/108
Jotun	
Jotun	HARDTOP AX,BLACK

Jotun	HARDTOP AX,RAL 6002
Jotun	HARDTOP AX,TINTED OF BASE 3
Jotun	HARDTOP AX,WHITE
Jotun	JOTACOTE UNIVERSAL N10,ALUMINIUM
Jotun	JOTACOTE UNIVERSAL N10,ALUMINIUM RED TONED
Jotun	JOTACOTE UNIVERSAL N10,GREY
Jotun	JOTUN THINNER NO. 04,CLEAR
Jotun	JOTUN THINNER NO. 07,CLEAR
Jotun	JOTUN THINNER NO. 17,CLEAR
Jotun	JOTUN THINNER NO. 23,CLEAR
Jotun	JOTUN THINNER NO. 26,CLEAR
Jotun	RESIST 86,GREENISH GREY
Jotun	SAFEGUARD UNIVERSAL ES,GREY
Jotun	SEAQUANTUM ULTRA S,DARK RED
Jotun	SEAQUANTUM ULTRA S,LIGHT RED
Jotun	SOLVALITT,BLACK
Jotun	TANKGUARD 412,RED
Jotun	TANKGUARD 412,WHITE
Jotun	TANKGUARD HB CLASSIC,GREY
Jotun	TANKGUARD HB CLASSIC,PINK
Jotun	HARDTOP AX,BLACK
Jotun	HARDTOP AX,RAL 6002
Jotun	HARDTOP AX,WHITE
Jotun	HARDTOP AX,TINTED OF BASE 3
Jotun	JOTACOTE UNIVERSAL N10,ALUMINIUM
Jotun	JOTACOTE UNIVERSAL N10,ALUMINIUM RED TONED
Jotun	SEAQUANTUM ULTRA S,LIGHT RED
Jotun	SEAQUANTUM ULTRA S,DARK RED
Jotun	SOLVALITT,BLACK
Jotun	TANKGUARD 412,RED
Jotun	TANKGUARD 412,WHITE
Jotun	TANKGUARD HB CLASSIC,PINK
Jotun	TANKGUARD HB CLASSIC,GREY
Jotun	JOTUN THINNER NO. 04,CLEAR
Jotun	JOTUN THINNER NO. 07,CLEAR
Jotun	JOTUN THINNER NO. 17,CLEAR
Jotun	JOTUN THINNER NO. 23,CLEAR
Jotun	JOTUN THINNER NO. 26,CLEAR
Jotun	JOTACOTE UNIVERSAL N10,GREY
Jotun	RESIST 86,GREENISH GREY
Jotun	SAFEGUARD UNIVERSAL ES,GREY
JP Swanepoel	
JP Swanepoel	Closing
JP Swanepoel	Extra welding on existing beams
JP Swanepoel	Opening up
Kwaka Living Quarters	

Kwaka Living Quarters	BUILD ACCOMMODATION - Vessel 1
Kwaka Living Quarters	BUILD ACCOMMODATION - Vessel 2
Legg & Wessel	
Legg & Wessel	3M™ 1900 | Silver Duct Tape | 48mmx45.72m
Legg & Wessel	3M™ 1900 | Silver Duct Tape | 48mmx45.72m
Libra	
Libra	12125 DOOR HOOK DIN 81406A
Libra	12127 WATERTIGHT TEST - maximum 4,5 bar with DNV/GL
Libra	12127 WATERTIGHT TEST MAX 4,5M BY DNV/GL
Libra	12135 GAS SPRING W/HOLD OPEN
Libra	12140 FLUSH HATCH, ALU/STEEL, INT Y-HANDLE
Libra	12141 FLUSH FRAME, ALU/STEEL
Libra	12155 WR100M, STEEL DOOR QUICK ACTING (4+2)
Libra	12167 STEEL ANGLE FRAME 65x65x7mm, R100
Libra	12171 LOCK WITHOUT HANDLE TV5341 - WR/SR, CYLINDER NOT INCLUDED
Libra	12172 PADLOCK BRACKET
Libra	12199 HATCH W/ CENTRAL CLOSING DEVICE
Libra	12233 BLIND COVER FOR PORT HOLE ø250MM
Libra	12315 WR100S, STEEL DOOR QUICK ACTING (2+2)
Libra	12363 WR100 (8+4) WATERTIGHT STEEL DOOR, QA
Libra	12369 A60 WR100(8+4) WATERTIGHT STEEL DOOR, QA
Libra	12381 PROJECT APPROVAL - DNV/GL
Libra	12673 DOOR CLOSER TYPE DC300 WR
Libra	14024 WRH-S A2 Weathertight Aluminum Service hatch Large
Libra	14112 WRH Frame Angle type Steel
Libra	550123 GASTIGHT COVER FOR CYLINDER LOCK
Libra	900504 PORT HOLE Ø250, 10HK, GR=32
Libra	12171 LOCK WITHOUT HANDLE TV5341 - WR/SR, CYLINDER NOT INCLUDED
Libra	12673 DOOR CLOSER TYPE DC300 WR
Libra	12167 STEEL ANGLE FRAME 65x65x7mm, R100
Libra	550123 GASTIGHT COVER FOR CYLINDER LOCK
Libra	12127 WATERTIGHT TEST MAX 4,5M BY DNV/GL
Libra	12199 HATCH W/ CENTRAL CLOSING DEVICE
Libra	12140 FLUSH HATCH, ALU/STEEL, INT Y-HANDLE
Libra	12155 WR100M, STEEL DOOR QUICK ACTING (4+2)
Libra	900504 PORT HOLE Ø250, 10HK, GR=32
Libra	12233 BLIND COVER FOR PORT HOLE ø250MM
Libra	12171 LOCK WITHOUT HANDLE TV5341 - WR/SR, CYLINDER NOT INCLUDED
Libra	12673 DOOR CLOSER TYPE DC300 WR
Libra	12315 WR100S, STEEL DOOR QUICK ACTING (2+2)
Libra	12172 PADLOCK BRACKET
Libra	12125 DOOR HOOK DIN 81406A
Libra	12363 WR100 (8+4) WATERTIGHT STEEL DOOR, QA
Libra	12167 STEEL ANGLE FRAME 65x65x7mm, R100

Libra	550123 GASTIGHT COVER FOR CYLINDER LOCK
Libra	12127 WATERTIGHT TEST MAX 4,5M BY DNV/GL
Libra	12369 A60 WR100(8+4) WATERTIGHT STEEL DOOR, QA
Libra	12199 HATCH W/ CENTRAL CLOSING DEVICE
Libra	12140 FLUSH HATCH, ALU/STEEL, INT Y-HANDLE
Libra	12141 FLUSH FRAME, ALU/STEEL
Libra	12127 WATERTIGHT TEST - maximum 4,5 bar with DNV/GL
Libra	12381 PROJECT APPROVAL - DNV/GL
M&H Engineering	
M&H Engineering	HDG of all above.
M&H Engineering	Weld one od70 washer per rod to all above 10mm from end..
M2M	
M2M	Electrical Installation
Macsteel	
Macsteel Fluid	100NB 80 Sched seamless pipe - 6mtrs
Macsteel Fluid	PIPE SEAMLESS ASTM A53 / ASTM A106 / 65 x SCH40 6.00 Mtr
Macsteel Fluid	PIPE SEAMLESS ASTM A53 / ASTM A106 / 80 x SCH40 6.00 Mtr
Macsteel Fluid	PIPE SEAMLESS ASTM A53 / ASTM A106 / 90 x SCH40 6.00 Mtr
Macsteel Fluid	Pipe Seamless ASTM A53 / ASTM A106/ 32 x SCH80 6.00Mtr
Macsteel Fluid	Pipe Seamless ASTM A53 / ASTM A106/ 50 x SCH40 6.00Mtr
Macsteel Fluid	100NB 80 Sched seamless pipe - 6mtrs
Macsteel Fluid	Pipe Seamless ASTM A53 / ASTM A106/ 32 x SCH80 6.00Mtr
Macsteel Fluid	Pipe Seamless ASTM A53 / ASTM A106/ 50 x SCH40 6.00Mtr
Macsteel Fluid	PIPE SEAMLESS ASTM A53 / ASTM A106 / 65 x SCH40 6.00 Mtr
Macsteel Fluid	PIPE SEAMLESS ASTM A53 / ASTM A106 / 80 x SCH40 6.00 Mtr
Macsteel Fluid	PIPE SEAMLESS ASTM A53 / ASTM A106 / 90 x SCH40 6.00 Mtr
Macsteel Fluid Control Pty Ltd	100NB Schedule 40 pipe A106B
Macsteel Fluid Control Pty Ltd	20NB Sched 80 pipe A106B
Macsteel Fluid Control Pty Ltd	250NB Sched 80 pipe A106B
Macsteel Fluid Control Pty Ltd	300NB Sched 40 pipe A106B
Macsteel Fluid Control Pty Ltd	32 NB Sched 40 pipe A106B
Macsteel Fluid Control Pty Ltd	40 NB Schedule 40 pipe A106B
Macsteel Fluid Control Pty Ltd	40NB Schedule 80 pipe A106B
Macsteel Fluid Control Pty Ltd	80 NB Sched 160 pipe A106B
Macsteel Fluid Control Pty Ltd	80NB Sched 40 pipe A106B
Macsteel Fluid Control Pty Ltd	20NB Sched 80 pipe A106B
Macsteel Fluid Control Pty Ltd	300NB Sched 40 pipe A106B
Macsteel Fluid Control Pty Ltd	250NB Sched 80 pipe A106B
Macsteel Fluid Control Pty Ltd	100NB Schedule 40 pipe A106B
Macsteel Fluid Control Pty Ltd	80 NB Sched 160 pipe A106B
Macsteel Fluid Control Pty Ltd	80NB Sched 40 pipe A106B
Macsteel Fluid Control Pty Ltd	40NB Schedule 80 pipe A106B
Macsteel Fluid Control Pty Ltd	40 NB Schedule 40 pipe A106B
Macsteel Fluid Control Pty Ltd	32 NB Sched 40 pipe A106B
Macsteel Trading	Angle 50x50x 6
Macsteel Trading	Angle 60x60x6
Macsteel Trading	Angle 70x70x8

Macsteel Trading	ANGLE EQUAL COMMERCIAL QUALITY 50.00 mm X 50.00 mm X 6.00 mm X 6.000 m
Macsteel Trading	ANGLE EQUAL S355 JR+AR EN 10025-2 AS ROLLED 70 x 70 x 8 6.000Mtr
Macsteel Trading	ANGLE EQUAL S355 JR+AR EN 10025-2 AS ROLLED 80 x 80 x 6 6.000Mtr
Macsteel Trading	ANGLE UNEQUAL S355 JR+AR EN 10025-2 AS ROLLED 75 x 50 x 6 6.500Mtr
Macsteel Trading	ROUND DRAWN BS970 080A42 EN8D 50 6.100Mtr 2X160MM LONG
Macsteel Trading	ROUND DRAWN SAE/AISI 1018 080A15 070M20 BMS 16 6.100Mtr 4X120MM LONG
Macsteel Trading	ROUND DRAWN SAE/AISI 1018 080A15 070M20 BMS 25 6.100Mtr 8X200MM LONG
Macsteel Trading	ROUND TURNED BS970 080A42 EN8D 80 6.100Mtr 4X275MM LONG
Macsteel Trading	ANGLE EQUAL S355 JR+AR EN 10025-2 AS ROLLED 80 x 80 x 6 6.000Mtr
Macsteel Trading	ANGLE UNEQUAL S355 JR+AR EN 10025-2 AS ROLLED 75 x 50 x 6 6.500Mtr
Macsteel Trading	ANGLE EQUAL S355 JR+AR EN 10025-2 AS ROLLED 70 x 70 x 8 6.000Mtr
Macsteel Trading	ANGLE EQUAL COMMERCIAL QUALITY 50.00 mm X 50.00 mm X 6.00 mm X 6.000 m
Macsteel Trading	ROUND TURNED BS970 080A42 EN8D 80 6.100Mtr 4X275MM LONG
Macsteel Trading	ROUND DRAWN BS970 080A42 EN8D 50 6.100Mtr 2X160MM LONG
Macsteel Trading	ROUND DRAWN SAE/AISI 1018 080A15 070M20 BMS 25 6.100Mtr 8X200MM LONG
Macsteel Trading	ROUND DRAWN SAE/AISI 1018 080A15 070M20 BMS 16 6.100Mtr 4X120MM LONG
Macsteel Trading	Angle 70x70x8
Macsteel Trading	Angle 50x50x 6
Macsteel Trading	Angle 60x60x6
Macsteel VRN	100 NB Sched Seamless pipe - 6 Mtrs
Macsteel VRN	10mm -29.55 Tons - LR.gr.A
Macsteel VRN	16mm -2.12 Tons - LR.gr.A
Macsteel VRN	20mm -6.25 Tons - LR.gr.A
Macsteel VRN	5mm -1.68 Tons - LR.gr.A
Macsteel VRN	6mm -29.29 Tons - LR.gr.A
Macsteel VRN	8mm -2.02 Tons - LR.gr.A
Macsteel VRN	Flat bars required
Macsteel VRN	HP 100 x 6 (QTY 5 x 12mtr lengths)
Macsteel VRN	HP 100 x 6 (QTY 8 x 12mtr lengths) UOM: KG
Macsteel VRN	HP 100 x 6 (QTY 8 x 12mtr lengths)
Macsteel VRN	HP 100 x 7 (QTY 7 x 12mtr lengths) UOM: KG
Macsteel VRN	HP 100 x 8 (QTY 8 x12mtr lengths) UOM: KG
Macsteel VRN	HP 120 x 7 (QTY 4 x 12mtr lengths)
Macsteel VRN	HP 120 x 7 (QTY 7 x 12mtr lengths) UOM: KG
Macsteel VRN	HP 120 x 7 (QTY 8 x 12mtr lengths)
Macsteel VRN	HP 120 x 8 (QTY 4 x 12mtr lengths) UOM: KG
Macsteel VRN	HP 140 x 7 (QTY 13 x 12mtr lengths) UOM: KG
Macsteel VRN	HP 140 x 8 (QTY 3 x 12mtr lengths)
Macsteel VRN	HP 160 x 7 (QTY 1 x 12mtr lengths) UOM: KG
Macsteel VRN	HP 160 x 7 (QTY 3 x 12mtr lengths)
Macsteel VRN	HP 180 x 8 (QTY 1 x 12mtr lengths)

Macsteel VRN	HP 180 x 8 (QTY 3 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 80 x 7 (QTY 1 x 12 mtr lenghts
Macsteel VRN	HP 80 x 7 (QTY 7 x 12 mtr lenghts) UOM: KG
Macsteel VRN	HP 80x 6 (QTY 2 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 80x 6 (QTY 6 x 12mtr lenghts)
Macsteel VRN	HP 80x6 (QTY 8 x 6mtr lenghts)
Macsteel VRN	MARINE 12.00 mm X 2,500.000 mm X
Macsteel VRN	MARINE 16.00 mm X 2,500.000 mm X
Macsteel VRN	MARINE 6.00 mm X 2,500.000 mm X 1,200.000
Macsteel VRN	recut 10mm parts
Macsteel VRN	Recut keelbar section 20mm
Macsteel VRN	16mm -2.12 Tons - LR.gr.A
Macsteel VRN	8mm -2.02 Tons - LR.gr.A
Macsteel VRN	6mm -29.29 Tons - LR.gr.A
Macsteel VRN	HP 80x 6 (QTY 2 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 80 x 7 (QTY 7 x 12 mtr lenghts) UOM: KG
Macsteel VRN	HP 120 x 7 (QTY 7 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 120 x 8 (QTY 4 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 160 x 7 (QTY 1 x 12mtr lenghts) UOM: KG
Macsteel VRN	recut 10mm parts
Macsteel VRN	5mm -1.68 Tons - LR.gr.A
Macsteel VRN	10mm -29.55 Tons - LR.gr.A
Macsteel VRN	20mm -6.25 Tons - LR.gr.A
Macsteel VRN	16mm -2.12 Tons - LR.gr.A
Macsteel VRN	8mm -2.02 Tons - LR.gr.A
Macsteel VRN	6mm -29.29 Tons - LR.gr.A
Macsteel VRN	20mm -6.25 Tons - LR.gr.A
Macsteel VRN	5mm -1.68 Tons - LR.gr.A
Macsteel VRN	10mm -29.55 Tons - LR.gr.A
Macsteel VRN	HP 80x 6 (QTY 2 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 80 x 7 (QTY 7 x 12 mtr lenghts) UOM: KG
Macsteel VRN	HP 100 x 6 (QTY 8 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 100 x 7 (QTY 7 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 100 x 8 (QTY 8 x12mtr lenghts) UOM: KG
Macsteel VRN	HP 120 x 7 (QTY 7 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 120 x 8 (QTY 4 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 140 x 7 (QTY 13 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 160 x 7 (QTY 1 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 180 x 8 (QTY 3 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 100 x 6 (QTY 8 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 100 x 7 (QTY 7 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 100 x 8 (QTY 8 x12mtr lenghts) UOM: KG
Macsteel VRN	HP 140 x 7 (QTY 13 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 180 x 8 (QTY 3 x 12mtr lenghts) UOM: KG
Macsteel VRN	HP 80x6 (QTY 8 x 6mtr lenghts)
Macsteel VRN	HP 100 x 6 (QTY 8 x 12mtr lenghts)
Macsteel VRN	HP 120 x 7 (QTY 8 x 12mtr lenghts)

Macsteel VRN	HP 80x6 (QTY 8 x 6mtr lengths)
Macsteel VRN	HP 100 x 6 (QTY 8 x 12mtr lengths)
Macsteel VRN	HP 120 x 7 (QTY 8 x 12mtr lengths)
Macsteel VRN	100 NB Sched Seamless pipe - 6 Mtrs
Macsteel VRN	HP 80x 6 (QTY 6 x 12mtr lengths)
Macsteel VRN	HP 80 x 7 (QTY 1 x 12 mtr lengths)
Macsteel VRN	HP 100 x 6 (QTY 5 x 12mtr lengths)
Macsteel VRN	HP 120 x 7 (QTY 4 x 12mtr lengths)
Macsteel VRN	HP 140 x 8 (QTY 3 x 12mtr lengths)
Macsteel VRN	HP 160 x 7 (QTY 3 x 12mtr lengths)
Macsteel VRN	HP 180 x 8 (QTY 1 x 12mtr lengths)
Macsteel VRN	recut 10mm parts
Macsteel VRN	Flat bars required
Macsteel VRN	Recut keelbar section 20mm
Mammoet	
Mammoet	Transport of vessels
Mammoet	Transport of vessels
Mammoet Southern Africa	01.11.2021 Trailer
Mammoet Southern Africa	2021/01/12 Jacking equipment
Mammoet Southern Africa	2021/02/12 Jacking equipment
Mammoet Southern Africa	2021/03/12 Jacking equipment
Mammoet Southern Africa	2021/06/12 Jacking equipment
Mammoet Southern Africa	2021/07/12 Jacking equipment
Mammoet Southern Africa	2021/08/12 Jacking equipment
Mammoet Southern Africa	23/11/2021 Jacking equipment
Mammoet Southern Africa	23/11/2021 Permit application
Mammoet Southern Africa	24/11/2021 Jacking equipment
Mammoet Southern Africa	25/11/2021 Jacking equipment
Mammoet Southern Africa	26.10.2021 Trailer
Mammoet Southern Africa	26/11/2021 Jacking equipment
Mammoet Southern Africa	27.10.2021 Trailer
Mammoet Southern Africa	28.10.2021 Trailer
Mammoet Southern Africa	29/11/2021 Jacking equipment
Mammoet Southern Africa	30/11/2021 Jacking equipment
Mammoet Southern Africa	Eskom after hours assistance
Mammoet Southern Africa	Jacking Equipment
Mammoet Southern Africa	Jacking Operation
Mammoet Southern Africa	Removal and replace of traffic lights
Mammoet Southern Africa	Route Clearance: Structural analysis, Route survey, Geometric route report. Liaison with Eskom
Mammoet Southern Africa	Shifting and loading- Parow Industria
Mammoet Southern Africa	Subcontractor to disconnect and reconnect powerlines.
Mammoet Southern Africa	Transshipment
Mammoet Southern Africa	Transport= Hull Section
Mammoet Southern Africa	Jacking Operation
Maritime Mechanicals Consulting CC	

Maritime Mechanicals Consulting CC	SET UP for setting of hull Penetrations iro Shaft lines
Marsili	
Marsili	Complete Steering System
Marsili	Complete Steering System
MRH Painters & Decorating CC	
MRH Painters & Decorating CC	1 OFF NEW MILD STEEL WORKBOAT WHEELHOUSE. ±290m ²
MRH Painters & Decorating CC	Labour
MRH Painters & Decorating CC	Material
MRH Painters & Decorating CC	Muki Z 2001 Green Premer
MRH Painters & Decorating CC	NEW MILD STEELWORKBOATS. ±2232m ² per Workboat
MRH Painters & Decorating CC	the preparing and priming only to 5 off Angle Frames
MRH Painters & Decorating CC	NEW MILD STEELWORKBOATS. ±2232m ² per Workboat
Mvano Marine	
Mvano Marine	270-DPP-24V - Light OCEANIC INCANDESCENT Double Stern White
Mvano Marine	270-DRQ-24V - Light OCEANIC INCANDESCENT Double Towing Yellow
Mvano Marine	270-DTHB-24V - Light OCEANIC INCANDESCENT Double All Round White
Mvano Marine	270-DTHR-24V - Light OCEANIC INCANDESCENT Double All Round Red
Mvano Marine	270-DTP-24V - Light OCEANIC INCANDESCENT Double Masthead White
Mvano Marine	270-SBR-24V - Light OCEANIC INCANDESCENT Single Port Side Red
Mvano Marine	270-SER-24V - Light OCEANIC INCANDESCENT Single Starboard Side
Mvano Marine	270-STHB-24V - Light OCEANIC INCANDESCENT Single All Round White
Mvano Marine	270-STHB-5-24 - Light OCEANIC INCANDESCENT Single All Round White
Mvano Marine	272-STHA - Light S-50 LED Single All Round Amber
Mvano Marine	9001 Accomodation Unit
Mvano Marine	9004 Call Unit, weather proof
Mvano Marine	AC Marine CX-4 VHF antenna
Mvano Marine	Antenna Base Deck Mount CX-4 ARTA0501
Mvano Marine	Freight - Freight/Shipping costs Spain to South Africa
Mvano Marine	FURUNO FA-170 Class A AIS transceiver IMD03385008
Mvano Marine	FURUNO FAR-1518-BB Marine X-Band Radar IMD03411000
Mvano Marine	Furuno FE-800 Navigational Echo Sounder with IMD03289001
Mvano Marine	Furuno GP-170 Global Positioning System (GPS) IMD03226014
Mvano Marine	Furuno MU-190 19" Type Approved Display IMD03308003
Mvano Marine	Furuno PP-505-FE printer for printing echogram 00005589200
Mvano Marine	Furuno SC-70 Satellite Compass with display and 30m cable IMD03452001
Mvano Marine	Obsermet OMC-139 Shipborn digital wind display unit 230 VAC OMC-139
Mvano Marine	OMC-160 Combined wind speed and direction sensor, stainless steel. OMC-160-3
Mvano Marine	Phontech 3100 CIS Master Station, 5 lines console mounted, 24V DC
Mvano Marine	Radio Toolset

Mvano Marine	RG-214 co-axial cable CCABL021
Mvano Marine	S/Steel Deck Mount GPS Base CGPSA043
Mvano Marine	SAILOR 6204 Control Speaker Microphone 406204A-00500
Mvano Marine	SAILOR 6208 Control Unit Connection Box 406208A
Mvano Marine	SAILOR 6222 VHF DSC Class A 406222A-00500
Mvano Marine	SAILOR 6270 Loudspeaker 406270A
Mvano Marine	Sailor SP3520 GMDSS H/Held VHF with ARTV0005
Mvano Marine	Tron 60S c/w Float-free bracket ASNV0208
Mvano Marine	Tron SART20 radar transponder c/w bracket ASART0025
Mvano Marine	VML-1520 HORNSPEAKER 15W/20 OHM WT - IP-66
Mvano Marine	SAILOR 6208 Control Unit Connection Box 406208A
Mvano Marine	AC Marine CX-4 VHF antenna
Mvano Marine	SAILOR 6222 VHF DSC Class A 406222A-00500
Mvano Marine	SAILOR 6204 Control Speaker Microphone 406204A-00500
Mvano Marine	SAILOR 6208 Control Unit Connection Box 406208A
Mvano Marine	SAILOR 6270 Loudspeaker 406270A
Mvano Marine	AC Marine CX-4 VHF antenna
Mvano Marine	Antenna Base Deck Mount CX-4 ARTA0501
Mvano Marine	RG-214 co-axial cable CCABL021
Mvano Marine	FURUNO FAR-1518-BB Marine X-Band Radar IMD03411000
Mvano Marine	Furuno MU-190 19" Type Approved Display IMD03308003
Mvano Marine	FURUNO FA-170 Class A AIS transceiver IMD03385008
Mvano Marine	S/Steel Deck Mount GPS Base CGPSA043
Mvano Marine	Furuno GP-170 Global Positioning System (GPS) IMD03226014
Mvano Marine	Furuno FE-800 Navigational Echo Sounder with IMD03289001
Mvano Marine	Furuno PP-505-FE printer for printing echogram 00005589200
Mvano Marine	Obsermet OMC-139 Shipborn digital wind display unit 230 VAC OMC-139
Mvano Marine	OMC-160 Combined wind speed and direction sensor, stainless steel. OMC-160-3
Mvano Marine	Furuno SC-70 Satellite Compass with display and 30m cable IMD03452001
Mvano Marine	Phontech 3100 CIS Master Station, 5 lines console mounted, 24V DC
Mvano Marine	VML-1520 HORNSPEAKER 15W/20 OHM WT - IP-66
Mvano Marine	9004 Call Unit, weather proof
Mvano Marine	9001 Accomodation Unit
Mvano Marine	Radio Toolset
Mvano Marine	Tron SART20 radar transponder c/w bracket ASART0025
Mvano Marine	Tron 60S c/w Float-free bracket ASNV0208
Mvano Marine	Sailor SP3520 GMDSS H/Held VHF with ARTV0005
Mvano Marine	270-SBR-24V - Light OCEANIC INCANDESCENT Single Port Side Red
Mvano Marine	270-SER-24V - Light OCEANIC INCANDESCENT Single Starboard Side
Mvano Marine	270-DPP-24V - Light OCEANIC INCANDESCENT Double Stern White
Mvano Marine	270-DTHR-24V - Light OCEANIC INCANDESCENT Double All Round Red
Mvano Marine	270-DTHB-24V - Light OCEANIC INCANDESCENT Double All Round White
Mvano Marine	270-STHB-5-24 - Light OCEANIC INCANDESCENT Single All Round White
Mvano Marine	270-DTP-24V - Light OCEANIC INCANDESCENT Double Masthead White
Mvano Marine	270-DRQ-24V - Light OCEANIC INCANDESCENT Double Towing Yellow
Mvano Marine	270-STHB-24V - Light OCEANIC INCANDESCENT Single All Round White

Mvano Marine	272-STHA - Light S-50 LED Single All Round Amber
Mvano Marine	Freight - Freight/Shipping costs Spain to South Africa
Mvano Marine	270-SBR-24V - Light OCEANIC INCANDESCENT Single Port Side Red
Mvano Marine	270-SER-24V - Light OCEANIC INCANDESCENT Single Starboard Side
Mvano Marine	270-DPP-24V - Light OCEANIC INCANDESCENT Double Stern White
Mvano Marine	270-DTHR-24V - Light OCEANIC INCANDESCENT Double All Round Red
Mvano Marine	270-DTHB-24V - Light OCEANIC INCANDESCENT Double All Round White
Mvano Marine	270-STHB-5-24 - Light OCEANIC INCANDESCENT Single All Round White
Mvano Marine	270-DTP-24V - Light OCEANIC INCANDESCENT Double Masthead White
Mvano Marine	270-DRQ-24V - Light OCEANIC INCANDESCENT Double Towing Yellow
Mvano Marine	270-STHB-24V - Light OCEANIC INCANDESCENT Single All Round White
Mvano Marine	272-STHA - Light S-50 LED Single All Round Amber
Mvano Marine	Freight - Freight/Shipping costs Spain to South Africa
Nautic Africa	
Nautic Africa	Consumables - V1905/1-00001
Nautic Africa	Labour - April'22 - Project V1905/1-00001
Nautic Africa	Labour - April'22 - Project V1905/2-00001
Nautic Africa	Labour-Feb'22-Project V1905/1-00001
Nautic Africa	Labour-March'22-Project V1905/1-00001
Nautic SA	Crane Truck Hire 6Hours per day
Nautic SA	Overtime Rate per Hour
Naval Africa	
Naval Africa	Additional
Naval Africa	Drawings for accommodation area as per TNPA specification
Naval Africa	Drawings for wheelhouse area as per TNPA specification
Naval Africa	For 1stVessel Based on 4.5% of individual vessel price
Naval Africa	For 2nd Vessel based on Roalty of 2.5% of individual vessel price
Naval Africa	Incline and Stability Books for 2 Vessels
Naval Africa	For 1stVessel Based on 4.5% of individual vessel price
Naval Africa	For 2nd Vessel based on Roalty of 2.5% of individual vessel price
Naval Africa	Incline and Stability Books for 2 Vessels
Naval Africa	Additional
Naval Africa	Drawings for accommodation area as per TNPA specification
Naval Africa	Drawings for wheelhouse area as per TNPA specification
North Sails	
North Sails	1 off Polyethylene Curtains 15m x 10m
North Sails	2 off Polyethylene Curtains 10 m x 4m.
North Sails	6 off Polyethylene Curtains 7.5m x 10m
North Sails	Dacron tape – Extensions taping - horizontal taping 45m
North Sails	Dacron tape – Taping of extensions to floor 40m
North Sails	Dacron tape – vertical taping 160m
North Sails	Extension
North Sails	6 off Polyethylene Curtains 7.5m x 10m
North Sails	1 off Polyethylene Curtains 15m x 10m
North Sails	2 off Polyethylene Curtains 10 m x 4m.
North Sails	Extension
North Sails	Dacron tape – vertical taping 160m

North Sails	Dacron tape – Extensions taping - horizontal taping 45m
North Sails	Dacron tape – Taping of extensions to floor 40m
NS Tech	
NS Tech	4BTA Flanged, Counter Flange, Bolts, Gaskets, Brackets
NS Tech	KT38 Flanged, Counter Flange, Bolts, Gaskets, Brackets
NS Tech	Silencer 4BTA3.9
NS Tech	Silencer KT38
NS Tech	KT38 Flanged, Counter Flange, Bolts, Gaskets, Brackets
NS Tech	4BTA Flanged, Counter Flange, Bolts, Gaskets, Brackets
Nucor Technology Systems	
Nucor Technology Systems	Drawings 1905-320
Nucor Technology Systems	Drawings 1905-322
Nucor Technology Systems	Drawings 1905-725
On Tap	
On Tap	DRT1600 GEYSER TRAY KWIKOT 1600X600X75MM
On Tap	DSG150-5 SUPERLINE KWIKOT GEYSER 150L 1335X538 600KPA 5-YEAR
On Tap	KH3.214 HI-FLO MULTI PRV 400KPA ONLY
On Tap	KH4.200CX VACUUM BREAKER 22MM
One Eighty	
One Eighty	BV 3.2 inspection certificate
One Eighty	Flattening test
One Eighty	Impact Test Incl Machining
One Eighty	Sample cutting
One Eighty	Spectrographic analysis
One Eighty	Tensile Test Incl Machining
One Eighty	Impact Test Incl Machining
One Eighty	Tensile Test Incl Machining
One Eighty	Flattening test
One Eighty	Spectrographic analysis
One Eighty	Sample cutting
One Eighty	BV 3.2 inspection certificate
Pride Precast	
Pride Precast	Removal of 400 x 400 mm block column.
Pride Precast	Remove of 3 sections 2.1m high plain precast wall
Pride Precast	Remove of 3 sections 2.1m high plain precast wall
Process Pipe	
Process Pipe	NB 20 Sched 80 pipe
Process Pipe	NB 250 Sched 40 pipe
Process Pipe	NB 250 Sched 80 pipe
Process Pipe	NB 80 Sched 160 pipe
Process Pipe	NB350 Sched 80 pipe
Process Pipe	NB 80 Sched 160 pipe
Process Pipe	NB350 Sched 80 pipe
Process Pipe	NB 250 Sched 80 pipe
Process Pipe	NB 250 Sched 40 pipe
Process Pipe	NB 20 Sched 80 pipe
Protea Foundry	

Protea Foundry	ZP3 Bolt/on being: 200 x 100 x 40 cast onto galvanised M/St strap with
Protea Foundry	ZP3 Bolt/on being: 200 x 100 x 40 cast onto galvanised M/St strap with
Radio Holland	
Radio Holland	Commissioning at Veecraft premises/Elliot Basin
Radio Holland	DockTrip
Radio Holland	Sea-Trials from Elliot Basin
Radio Holland	System Block Diagram and cable schedule
Radio Holland	Termination and Set to Work at Veecraft premises/CT Harbour
Radio Holland	System Block Diagram and cable schedule
Radio Holland	Termination and Set to Work at Veecraft premises/CT Harbour
Radio Holland	Commissioning at Veecraft premises/Elliot Basin
Radio Holland	Sea-Trials from Elliot Basin
Radio Holland	DockTrip
Rhenus	
Rhenus	Agency Fee
Rhenus	Airline Handling Fee
Rhenus	Airline Split Fee
Rhenus	Bill of Lading Fee
Rhenus	Bill Of Lading Fee \$55
Rhenus	Break Bulk Fee
Rhenus	Bunker Adjustment Factor
Rhenus	Bunker Adjustment Factor-\$240
Rhenus	Cargo Dues
Rhenus	Chassis / IFS / CFS Surcharge
Rhenus	Collection fee
Rhenus	Co-Loader EDI Fee
Rhenus	Container Cleaning Fee
Rhenus	Container Demurrage and Detention
Rhenus	COVID Screening Fee
Rhenus	Currency Fluctuation
Rhenus	Customs Documentation Fee
Rhenus	Customs Duty
Rhenus	Customs House Bill of Lading Acquittal Fee
Rhenus	Customs Penalties
Rhenus	Delivery Cartage
Rhenus	Delivery Cartage Paarden Eiland
Rhenus	Delivery Charges
Rhenus	Delivery Release Order fee
Rhenus	Depot Handling Out Fee
Rhenus	Destination Storage
Rhenus	Deyuan Clearance
Rhenus	EDI Fee
Rhenus	Eriks Shipping - SCPTAI21I008
Rhenus	Eriks Shipping - SCPTSI21H132
Rhenus	Estimate for Shipping Fenders
Rhenus	Equip. Imbalance Fee-\$96

Rhenus	Ex Works Charges
Rhenus	Ex Works Charges NOK7414
Rhenus	Ex Works Charges-EUR 494.71
Rhenus	Export Handling Charges
Rhenus	Freight
Rhenus	Freight \$2700
Rhenus	Freight-\$896
Rhenus	Fuel Surcharge
Rhenus	IHC-\$120
Rhenus	LCL Degrouping
Rhenus	LCL Degrouping/Unpack
Rhenus	Low Sulfur Surcharge-\$48
Rhenus	Marsili Clearance
Rhenus	Navis Fee (Container Terminal Order)
Rhenus	Ocean Freight (Including BAF)
Rhenus	Pick-Up Charges
Rhenus	RCG Fee
Rhenus	RCG Filing Fee
Rhenus	RCG Processing Fee
Rhenus	Release Fee
Rhenus	Rhenus Advanced Submission
Rhenus	Shipping Line Documentation Fee
Rhenus	Shipping Line Handling Fee
Rhenus	SOLAS Fee
Rhenus	State Warehouse Charges
Rhenus	State WH Storage
Rhenus	Terminal Handling Charges
Rhenus	Terminal Transfer
Rhenus	Third Party Airline COVID Charge
Rhenus	Fuel Surcharge
Rhenus	Cargo Dues
Rhenus	Customs Documentation Fee
Rhenus	Agency Fee
Rhenus	Delivery Cartage Paarden Eiland
Rhenus	Fuel Surcharge
Rhenus	Terminal Handling Charges
Rhenus	Cargo Dues
Rhenus	Navis Fee (Container Terminal Order)
Rhenus	Agency Fee
Rhenus	Fuel Surcharge
Rhenus	Agency Fee
Rhenus	Collection fee
Rhenus	Delivery Cartage Paarden Eiland
Rhenus	Agency Fee
Rhenus	Rhenus Advanced Submission

Rhenus	Delivery Cartage
Rhenus	Fuel Surcharge
Rhenus	Customs Documentation Fee
Rhenus	Agency Fee
Rhenus	Bill of Lading Fee
Rhenus	Collection fee
Rhenus	RCG Filing Fee
Rhenus	LCL Degrouping/Unpack
Rhenus	Delivery Cartage
Rhenus	Fuel Surcharge
Rhenus	Delivery Release Order fee
Rhenus	Cargo Dues
Rhenus	Customs Documentation Fee
Rhenus	Agency Fee
Rhenus	Pick-Up Charges
Rhenus	Export Handling Charges
Rhenus	Ocean Freight (Including BAF)
Rhenus	Bunker Adjustment Factor
Rhenus	Chassis / IFS / CFS Surcharge
Rhenus	SOLAS Fee
Rhenus	LCL Degrouping
Rhenus	Delivery Release Order fee
Rhenus	Cargo Dues
Rhenus	Co-Loader EDI Fee
Rhenus	Delivery Charges
Rhenus	Fuel Surcharge
Rhenus	RCG Processing Fee
Rhenus	Customs Documentation Fee
Rhenus	Agency Fee
Rhenus	RCG Fee
Rhenus	Bill of Lading Fee
Rhenus	Collection fee
Rhenus	Delivery Cartage Paarden Eiland
Rhenus	Terminal Handling Charges
Rhenus	Navis Fee (Container Terminal Order)
Rhenus	Destination Storage
Rhenus	Container Demurrage and Detention
Rhenus	Release Fee
Rhenus	Container Cleaning Fee
Rhenus	Customs Documentation Fee
Rhenus	Shipping Line Documentation Fee
Rhenus	LCL Degrouping/Unpack
Rhenus	Delivery Cartage
Rhenus	EDI Fee
Rhenus	Customs Documentation Fee
Rhenus	Ex Works Charges NOK7414
Rhenus	Bill Of Lading Fee \$55

Rhenus	RCG Filing Fee
Rhenus	Freight \$2700
Rhenus	Rhenus Advanced Submission
Rhenus	Shipping Line Handling Fee
Rhenus	Cargo Dues
Rhenus	Navis Fee (Container Terminal Order)
Rhenus	Customs Documentation Fee
Rhenus	Ex Works Charges
Rhenus	Currency Fluctuation
Rhenus	Freight
Rhenus	Terminal Transfer
Rhenus	Break Bulk Fee
Rhenus	Airline Split Fee
Rhenus	Airline Handling Fee
Rhenus	Third Party Airline COVID Charge
Rhenus	EDI Fee
Rhenus	Customs Duty
Rhenus	Ex Works Charges
Rhenus	Currency Fluctuation
Rhenus	Freight
Rhenus	Terminal Transfer
Rhenus	Rhenus Advanced Submission
Rhenus	Break Bulk Fee
Rhenus	Airline Split Fee
Rhenus	Airline Handling Fee
Rhenus	Third Party Airline COVID Charge
Rhenus	Delivery Cartage
Rhenus	Fuel Surcharge
Rhenus	EDI Fee
Rhenus	Customs Documentation Fee
Rhenus	Agency Fee
Rhenus	Customs Duty
Rhenus	Ex Works Charges-EUR 494.71
Rhenus	Bunker Adjustment Factor-\$240
Rhenus	IHC-\$120
Rhenus	Low Sulfur Surcharge-\$48
Rhenus	Equip. Imbalance Fee-\$96
Rhenus	Freight-\$896
Rhenus	Rhenus Advanced Submission
Rhenus	EDI Fee
Rhenus	COVID Screening Fee
Rhenus	Customs House Bill of Lading Acquittal Fee
Rhenus	Depot Handling Out Fee
Rockwool	
Rockwool	115682 (68061000) SeaRox SL 620 1000x600x25 pallet HT
Rockwool	116058 (68061000) SeaRox SL 340 1000x600x50 pallet HT
Rockwool	116681 (68061000) SeaRox SL 740 1000x600x50 pallet HT
Rockwool	128826 (68061000) SeaRox SL 620 1000x600x75 pallet HT

Rockwool	116058 (68061000) SeaRox SL 340 1000x600x50 pallet HT
Rockwool	Freight
Rockwool	116681 (68061000) SeaRox SL 740 1000x600x50 pallet HT
Rockwool	116058 (68061000) SeaRox SL 340 1000x600x50 pallet HT
Rockwool	128826 (68061000) SeaRox SL 620 1000x600x75 pallet HT
Rockwool	115682 (68061000) SeaRox SL 620 1000x600x25 pallet HT
Rotor Motive cc	
Rotor Motive cc	Air Receiver 500/16/LRS
Rotor Motive cc	Refrigerant Air Dryer SDE00 inlc filters
Rotor Motive cc	Starting Air Compressor DSR7-8-5
Rotor Motive cc	Surcharge for water cooled version
Rotor Motive cc	Starting Air Compressor DSR7-8-5
Rotor Motive cc	Surcharge for water cooled version
Rotor Motive cc	Air Receiver 500/16/LRS
Rotor Motive cc	Refrigerant Air Dryer SDE00 inlc filters
Ryke Electrical	
Ryke Electrical	18W LED Daylight (6500K) surface fitting 1400 Lumen
Ryke Electrical	Led Swivel Type Bunklight 347mm L x 35mm W x 85mm D
Ryke Electrical	Round ES Bulkhead 185mm OD x 100mm D C/W 24V Lamp
Samsa	
Samsa	90001 SHIP CONSTR,ALTER/REBUILD
Samsa	CONSULTATIVE SERVICE
Samsa	Consultative Services - V1905
Samsa	New Build consultation on COA/Exemption
Samsa	Newbuild meeting
Samsa	Newbuild meeting
Samsa	New Build consultation on COA/Exemption
Samsa	CONSULTATIVE SERVICE
Sarens Siba	
Sarens Siba	40t Mobile Crane
Sarens Siba	Transport
Shibata Fender Team	
Shibata Fender Team	P900200 Set of SC Fenders 300 x 250 mm
Shibata Fender Team	P900400 Set of M Fenders 500 x 250 mm
Shibata Fender Team	P990011 1 Estimated Freight as per agreed delivery Term
Silentor	
Silentor	Silencer KT38
Silentor	Silencer 4BTA3.9
Silentor	Silencer KT38
Southern Power	
Southern Power	AG 10X10 RETURN AIR WHITE ABS
Southern Power	AG 10X6 SUPPLY AIR WHITE ABS
Southern Power	AG 14X10 RETURN AIR WHITE ABS
Southern Power	AG ROUND D75MM ADJUSTABLE+HOSE RING GRILLE WHITE PLASTIC
Southern Power	AIR GRILLE 10X5 SUPPLY AIR WHITE ABS
Southern Power	AS TRANSITION BOX FOR AIR GRILLE 10X5

Southern Power	AS TRANSITION BOX FOR AIR GRILLE 10X6
Southern Power	AS Y AIR DIVIDER ABS, F125MM 2X M100MM
Southern Power	BLUE COOL SOFT START 230V 50/60HZ
Southern Power	BLUECOOL SOFT START 5.000 13.000 BTUH
Southern Power	INSULATED FLEX AIR DUCT 102mm
Southern Power	INSULATED FLEX AIR DUCT DN1275" L6M PE 5MM
Southern Power	OVAL HOSE RING DIAMETER 125MM.
Southern Power	OVAL HOSE RING FOR DIAMETER 125MM.
Southern Power	OVAL HOSE RING FOR TRANSITION BOXES 125MM.
Southern Power	OVAL HOSE RING FOR TRANSITION BOXES, DIAMETER 125MM.
Southern Power	PUMP SELFPRIMING WB1000G 230V 50HZ
Southern Power	S13 R230VREV R410A
Southern Power	S16 R230VREV R410A
Southern Power	S20 R230VREV R410A
Southern Power	SOFT START 16.000 BTU 230V 50/60HZ
Southern Power	THRUHULL KIT 3/4INCH 2 BRASS VALVES
Southern Power	TRANSITION BOX FOR AIR GRILLE 10X5
Southern Power	TRANSITION BOX FOR AIR GRILLE 10X6
Southern Power	VIBRATION ABSORBER KIT SSERIES S13 S27
Southern Pumps	KGE11-3 pump and motor
Southern Pumps	KGE15-6 pump and motor
Southern Pumps	KGE16-3 pump and motor
Southern Pumps	KGE15-6 pump and motor
Southern Pumps	KGE11-3 pump and motor
Southern Pumps	KGE16-3 pump and motor
SPP Lasercut	
SPP Lasercut	Flanges as per quote
SPP Lasercut	Flanges as per quote
SPP Lasercut	Plasma Cutting & Machining - 35mm S355
Superload Consultants (PTY) LTD	
Superload Consultants (PTY) LTD	Subcontractor to connect and disconned powerlines.
Table Bay Rubber	
Table Bay Rubber	USED A-Craft Tyre 30" OD x 9.5" W X R14
Tandem Cranes	
Tandem Cranes	CRANE TRUCK 6 HOURS PER DAY
Tandem Cranes	Flatrack Truck
Tandem Cranes	Hire of Semi Truck
Tandem Cranes	Hydraulic Equipmet Collection
Tandem Cranes	Moving of Plates - Hire of Crane Truck
Tandem Cranes	NOOTEBOOM TRUCK
Tandem Cranes	RATE PER HOUR MINIMUM 10 HOURS HIRE OF 80 TON MOBILE CRANE
Tandem Cranes	RATE PER HOUR MINIMUM 6 HOURS RIGGING CREW
Tandem Cranes	RIGGING CREW 6 HOURS
Tandem Cranes	Rigging Crew Rate per Hour Minimum 6 hours

Tandem Cranes	SITE ESTABLISHMENT
Tandem Cranes	TO LOAD A WHEEL HOUSE IN PAARDEN ISLAND
Tandem Cranes	Moving of Plates - Hire of Crane Truck
Tandem Cranes	RATE PER HOUR MINIMUM 10 HOURS HIRE OF 80 TON MOBILE CRANE
Tandem Cranes	SITE ESTABLISHMENT
Tandem Cranes	NOOTEBOOM TRUCK
Tandem Cranes	RATE PER HOUR MINIMUM 6 HOURS RIGGING CREW
Tandem Cranes	RIGGING CREW 6 HOURS
Tandem Cranes	Hydraulic Equipmet Collection
Tandem Cranes	Rigging Crew Rate per Hour Minimum 6 hours
Tandem Cranes	Hire of Semi Truck
Tandem Cranes	Flatrack Truck
Teignbridge	
Teignbridge	150mm (shaft) Diameter x 3000mm SOL Assembly
Teignbridge	150mm x 4500mm overall length Tailshaft assy
Teignbridge	1800mm x 5 Blade, Fixed Pitch x 0.75 DAR, LH Propeller Hi Torque design
Teignbridge	1800mm x 5 Blade, Fixed Pitch x 0.75 DAR, RH Propeller Hi Torque design
Teignbridge	A' Bracket Assembly to suit 150mm
Teignbridge	BV Charges for Plan and Equipment testing and approval
Teignbridge	Flanged mild steel half coupling
Teignbridge	Packing
Teignbridge	Freight
Teignbridge	BV Charges for Plan and Equipment testing and approval
Teignbridge	Packing
Teignbridge	1800mm x 5 Blade, Fixed Pitch x 0.75 DAR, RH Propeller Hi Torque design
Teignbridge	1800mm x 5 Blade, Fixed Pitch x 0.75 DAR, LH Propeller Hi Torque design
Teignbridge	150mm x 4500mm overall length Tailshaft assy
Teignbridge	Flanged mild steel half coupling
Teignbridge	150mm (shaft) Diameter x 3000mm SOL Assembly
Teignbridge	A' Bracket Assembly to suit 150mm
The Moore's	
The Moore's	Lofting boards
The Moore's	Lofting boards
Transcape Steel	
Transcape Steel	ANGLE EQUAL 40 x 5mm x 6.0m
Transcape Steel	ANGLE EQUAL 60 x 5mm x 13.0m
Transcape Steel	BLASTING AND PRIMING
Transcape Steel	FLATS - MILD STEEL 50 x 5mm x 6.0m
Transcape Steel	PLATE S235 JR+AR UPGRADED GR A+LR 10000 x 2400 x 20.0mm
Transcape Steel	PLATE S235 JR+AR UPGRADED GR A+LR 10000 x 2400 x 20.0mm
Transcape Steels (Pty) Ltd	ANGLE EQUAL 50 x 6mm x 6.0m
Transcape Steels (Pty) Ltd	ANGLE EQUAL 60 x 6mm x 13.0m
Transcape Steels (Pty) Ltd	ANGLE EQUAL 60 x 8mm x 6.0m
Transnet	
Transnet	Pilotage Exemption Certificate
Waterman Supply	

Waterman Supply	MISC-SPL-OURS
Waterman Supply	Freight
Waterman Supply	MISC-SPL-OURS
Wesa Trading	
Wesa Trading	135mtr shad-link anchor-chain dia 14mm
Wesa Trading	3-d links-adaptors E+EL+C for chain dia 14mm
Wesa Trading	Anchor Shakels type-D for chain dia 14mm
Wesa Trading	Anchor Type Pull-TW 160kg, fully balanced each R32 500
Wesa Trading	Kenter-shackles for chain dia 14mm
Wesa Trading	Seafreight and Packaging
Wesa Trading	Swivel-forrunners B+EL+SW+EL+C for chain dia 14mm
Wesa Trading	Anchor Type Pull-TW 160kg, fully balanced each R32 500
Wesa Trading	Anchor Type Pull-TW 160kg, fully balanced each R32 500
Wesa Trading	Anchor Type Pull-TW 160kg, fully balanced each R32 500
Wesa Trading	135mtr shad-link anchor-chain dia 14mm
Wesa Trading	Swivel-forrunners B+EL+SW+EL+C for chain dia 14mm
Wesa Trading	Anchor Shakels type-D for chain dia 14mm
Wesa Trading	3-d links-adaptors E+EL+C for chain dia 14mm
Wesa Trading	Kenter-shackles for chain dia 14mm
Wesa Trading	Seafreight and Packaging
Wigo	
Wigo	1072/732 x 877mm 10mm Clear
Wigo	447/195 x 861mm 8mm Clear
Wigo	588/422 x 939mm 10mm Clear
Wigo	600 x 450mm 8mm Tinted
Wigo	600 x 939mm 10mm Clear
Wigo	600 x 939mm 8mm Clear
Wigo	725/1011 x 300mm 8mm Tinted
Wigo	750 x 877mm 10mm clear
Wigo	800 x 450mm 8mm Tinted
Wigo	800 x 939mm 10mm Clear
Wigo	800 x 939mm 8mm Clear
Wigo	900 x 877mm 10mm Clear
Wigo	900 x 877mm open 10mm Clear
Wigo	909/791 x 939mm 10mm clear
Wigo	Class Certification
Wigo	800 x 450mm 8mm Tinted
Wigo	600 x 450mm 8mm Tinted
Wigo	800 x 939mm 10mm Clear
Wigo	600 x 939mm 10mm Clear
Wigo	588/422 x 939mm 10mm Clear
Wigo	909/791 x 939mm 10mm clear
Wigo	800 x 450mm 8mm Tinted
Wigo	600 x 450mm 8mm Tinted
Wigo	1072/732 x 877mm 10mm Clear
Wigo	900 x 877mm open 10mm Clear

Wigo	900 x 877mm 10mm Clear
Wigo	750 x 877mm 10mm clear
Wigo	725/1011 x 300mm 8mm Tinted
Wigo	800 x 939mm 8mm Clear
Wigo	600 x 939mm 8mm Clear
Wigo	447/195 x 861mm 8mm Clear
Wigo	Class Certification
ZF Servcies	
ZF Servcies	Coupling Certification
ZF Servcies	Credit
ZF Servcies	Design Approval Certification
ZF Servcies	Monitoring Set
ZF Servcies	Vilkardan Coupling E911S
ZF Servcies	ZF Clear Command Single Stations
ZF Servcies	ZFW3350 Gearbox
ZF Servcies	ZFW3350 Gearbox
ZF Servcies	Design Approval Certification
ZF Servcies	Coupling Certification
ZF Servcies	Vilkardan Coupling E911S
ZF Servcies	Monitoring Set
ZF Servcies	ZF Clear Command Single Stations
ZF Servcies	ZFW3350 Gearbox
ZF Servcies	Design Approval Certification
ZF Servcies	Coupling Certification
ZF Servcies	Vilkardan Coupling E911S
ZF Servcies	Monitoring Set
ZF Servcies	ZF Clear Command Single Stations

SECTION 2

7 Management and start up

7.1 MANAGEMENT MEETINGS

Regular meetings of a general nature may be convened and chaired by the Project Manager as follows:

Table 7.1: Meetings List

Title and purpose	Approximate time & interval	Location	Attendance by:
Risk Meetings	Monthly	TBC	Project Manager, Contractor, Supervisor
Progress Meetings	Monthly	TBC	Project Manager, Contractor, Supervisor
SHE Meetings	Ad-hoc		<i>As required</i>
Compensation Event Meetings	Ad-hoc		<i>As required</i>
Risk Reduction Meetings	Ad-hoc		<i>As required</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Works Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *works*. Records of these meetings are to be submitted to the *Project Manager* by the person convening the meeting within five days of the meeting.

All meetings are to be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register are not to be used for the purpose of confirming actions or instructions under the contract as these are to be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

7.2 DOCUMENTATION CONTROL

In undertaking the '*Works*' (including all incidental services required), the Supplier shall conform and adhere to the requirements of the '*Contractor Documentation Submittal Requirements*' Standard included.

There is existing documentation as part of the completed workboats as follows :

- Data Pack manual for the existing boat are stated as below.

Description	Comments
1. All relevant QC files.	There are only QC files for TUG1. Cinco, Femserve and Africa Projects still have their data files for TUG2

2. All Quality control plan.	There is only TUG1 QCP because we don't have all the data books. Data books are still with the subcontractors Femserve, Cinco & Africa Projects
3. All open NCR's.	The open NCR's is in the VeeCraft file.
4. All close NCR's.	The closed NCR's is in the VeeCraft file.
5. All BV comments and patrol reports.	BV comments you can find on VPM. The patrol reports for TUG1 is in the Femserve file.
6. All laser alignment report.	The laser alignment report must still be submitted by MMC. MMC will only issue this report when all alignment has been completed
7. All NDT reports.	The NDT reports for TUG1 is in the Femserve file. Femserve still has the file for TUG2 Cinco also has NDT reports for TUG2

The Supplier is to ensure that the latest versions of the required application software and a suitable 'IT' Infrastructure are in place to support the electronic transmission of documentation.

7.3 SAFETY RISK MANAGEMENT

The *Contractor* complies with the following SMP:

- Please refer to TNPA SHERQ Group policy and TNPA H&S Management.
- The *Contractor* ensures that its Subcontractors comply with the requirements of the SMP.
- The *Contractor* in the performance of the *works* establishes an incentive programme for its employees with respect to SMP compliance.
- The *Contractor* complies with the requirements of the SSRC with respect to his own activities and others on the Site and Working Areas.
- The *Contractor* makes the SMP available to its employees and Subcontractors in the *language of this contract* and other local languages as required.
- The *Contractor* arranges and participates in a FEL4 HAZOP once the following design documents have been approved by the *Project Manager* for this purpose:
 - Contractor's Process or Piping and Instrumentation Diagram (P&ID),
 - Detailed control philosophy, and
 - Motor, equipment and instrumentation list.

The undertaking of a hazard and operability (HAZOP) study is considered critical to the success of the Contract and achievement of the *Employer's* Objectives. It is intended that participants include representatives of the *Project Manager*, the *Contractor*, and technical representatives of the *Employer* responsible for planning, maintenance, and operation.

The *Contractor* employs a suitably experienced and independent consultant (to be approved by the *Project Manager*) to lead a HAZOP study in accordance with generally accepted industry practise and Transnet risk mitigation requirements at execution stage. The consultant is

commissioned to provide a report detailing the findings of the study. The study is undertaken at the *Employer's* offices in Cape Town or a suitable venue offered by the *Contractor*. A minimum of two days to be allowed for.

All design documents are updated by the *Contractor* after completion of the study, to reflect the decisions reached.

The *Contractor's* design team members for all components of the *Works* (as a minimum including those staff proposed by the *Contractor* in his Schedule of Key Personnel Assigned to the Contract forming part of the *Contractor's* Proposal, plus the software Systems Integrator) are present for the full duration of the study.

7.4 ENVIRONMENTAL CONSTRAINTS AND MANAGEMENT

This project entails replacement of the existing infrastructure and does not trigger any listed activities in terms of Environmental Impact Assessments (EIA) listed Activities 2014, therefore an EIA will not be required.

7.4.1 The *Contractor* complies with the following CEMP:

The *Contractor* performs the *works* and all construction activities within the Site and Working Areas having due regard to the environment and to environmental management practices as more particularly described within the SES and PES.

The SES describes the minimal acceptable standard for environmental management for a range of environmental aspects commonly encountered on construction projects and sets environmental objectives and targets, which the *Contractor* observes and complies.

The PES describes more particularly the environmental standards applicable to the *works*, the Site and the Working Areas and sets out variance (including additions) to the SES. The PES may require higher minimal standards than those described in the SES as may be required by the *Project Manager* or Others.

7.5 QUALITY ASSURANCE REQUIREMENTS

To be completed in conjunction with the Quality Manager

Specify minimum requirements for the Contractor's Quality Plan and Work Procedures or provide the Employer's Quality Plan if that is to be used. Make sure witness and hold points are identified generally and describe any particular requirements for QA outside the working areas. Indicate how the Contractor's QA documentation is to be submitted for acceptance and any conditions that need to be imposed relating to acceptance. State whether ISO compliance is a condition and if so which ISO standard shall apply.

7.5.1 The Contractor complies to QAL-STD-0001 (General Quality Requirements for Contractors and Suppliers) and shall have, maintain and demonstrate its use to the Project Manager (and/or the Supervisor to satisfy the requirements of the contract. A documented Quality Management System to be used in the performance of the works.

The Contractor's Quality Management System shall conform to International Standard ISO 9001 (or an equivalent standard acceptable to the Project Manager)

- 7.5.2** The *Contractor* submits his Quality Management System documents to the *Project Manager* as part of his programme under ECC Clause 31.2 to include details of:
- a) Quality Plan for the contract;
 - b) Quality Policy
 - c) Index of Procedures to be used; and
 - d) A schedule of internal and external audits during the contract
- 7.5.3** The *Contractor* develops and maintains a comprehensive register of documents that will be generated throughout the contract including all quality related documents as part of its Quality Plan.
- 7.5.4** The *Project Manager* indicates those documents required to be submitted for either information, review or acceptance and the *Contractor* indicates such requirements within his register of documents. The register shall indicate the dates of issue of the documents with the *Project Manager* responding to documents submitted by the *Contractor* for review or acceptance within the *period for reply* prior to such documents being used by the *Contractor*.
- 7.5.5** The Quality Plan means the *Contractor's* statement, which outlines strategy, methodology, resources allocation, QA and Quality Control co-ordination activities to ensure that the *works* meet the standards stated in the *Works* Information.
- 7.5.6** The Quality Policy means the *Contractor's* statement, which outlines strategy, methodology, resources allocation, QA and Quality Control co-ordination activities to ensure that the *works* meet the standards stated in the *Works* Information..
- 7.5.7** The Index of Procedures means the Contractor's systems for management of:
- a) Documentation Control
 - b) Design Control
 - c) Procurement
- 7.5.8** The inspection and testing means:
- a) Quality Control Plans
 - b) Inspection Points
 - c) Schedule of Inspections
 - d) Field Inspection Checklists
 - e) Inspection notification
 - f) Inspection and testing
 - g) Inspection release
 - h) Special processes

- i) Welding Procedures
- j) Material traceability and certification

All above clauses to be read in conjunction with the Quality Standard document (QAL-STD-0001_Rev01 attached in ANNEXURE J

7.6 PROGRAMMING CONSTRAINTS

7.6.1 The *Contractor* shows on each programme he submits to the *Project Manager*, the requirements of the Engineer to be complied to.

7.6.2 The Contractor presents his first programme and all subsequently revised programmes (see ECC Clauses 31.2 and 32.1) in hard copy format and in soft copy format

7.6.3 The Contractor uses Primavera version 3.1 for his programme submissions or a similar programme software package equivalent to Primavera version 3.1 subject to the prior written notification and acceptance by the Project Manager.

7.6.4 The Contractor shows on his Accepted Programme and all subsequently revised programmes schedules showing the critical path or paths and all necessary logic diagrams demonstrating sequence of operations.

7.6.5 The Contractor's programme shows duration of operations in working days [please state here or by cross-reference elsewhere in C3.1 Employer's Works Information to normal hours of a working days and what is a normal working week].

7.6.6 The Contractor's programme shows the following levels:

- Level 1 Master Schedule – defines the major operations and interfaces between engineering design, procurement, fabrication and assembly of Plant and Materials, transportation, construction, testing and pre-commissioning, commissioning and Completion.
- Level 2 Project Schedule – summary schedules 'rolled up' from Level 3 Project Schedule described below
- Level 3 Project Schedule – detailed schedules generated to demonstrate all operations identified on the programme from the starting date to Completion. The Project Manager notifies any subsequent layouts and corresponding filters on revised programmes
- Level 4 Project Schedule – detailed discipline speciality level developed and maintained by the Contractor relating to all operations identified on the programme representing the daily activities by each discipline
- A narrative status report, which includes progress with key deliverables, status, performance, manhours, resourcing and plant on site.

7.6.7 The Contractor shows on each revised programme he submits to the Project Manager a resource histogram showing planned progress versus actual, deviations from the Accepted Programme and any remedial actions proposed by the Contractor.

7.6.8 The Contractor submits programme report information to the Project Manager look ahead, critical path, constraints and possible mitigation to claw back time weekly] intervals in addition to the intervals for submission of revised programmes stated under Contract Data Part One.

7.6.9 The Contractor's weekly programme narrative report includes:

- Level 4 Project Schedule – showing two separate bars for each task i.e. the primary bar must reflect the current forecast dates and the secondary bar the latest Accepted programme.

- 3-week Look ahead Schedule - showing two separate bars for each task i.e. the primary bar must reflect the current forecast dates and the secondary bar the latest Accepted programme.
- Manpower Histogram – reflecting actual, forecasted and planned activities
- S-curves – reflecting the actual percentage complete versus the planned percentage for the overall contract utilising the earned values as calculated by the detailed progress report.
- The *Employer* (including the agents of the *Employer*) operates on Site during [either state specific calendar dates or timings when the *Contractor* has completed certain elements of the *works* etc].
- Others [state specific third parties] operate on Site during [either state specific calendar dates or timings when the *Contractor* has completed certain elements of the *works* etc].

7.7 **CONTRACTOR'S MANAGEMENT, SUPERVISION AND KEY PEOPLE**

- (The *Contractor* provides an Organogram of all his key people (both as required by the *Employer* and as independently stated by the *Contractor* under Contract Data Part Two) and how such key people communicate with the *Project Manager* and the *Supervisor* and their delegates all as stated at paragraph 6.5 of C3.1 *Employer's Works* Information.
- The site team consists of a Construction Manager, Site Secretary, Health & Safety Officer, Site QA/QC Controller, Fabrication Supervisor, Mechanical & Piping Supervisor, Electrical & Instrumentation Supervisor, Coded Welders, Electricians, Millwrights, Site Planner, Site Contracts Administrator or alternative proposed by the *Contractor*.

7.8 **TRAINING WORKSHOPS AND TECHNOLOGY TRANSFER**

7.8.1 **The *Contractor* facilitates the following requirements for training workshops:**

- The *Contractor* facilitates the following requirements for training workshops:
 - A safety pre-mobilisation workshop
 - The *Contractor* ensures that all site personnel undergo a risk-specific health and safety induction training session before starting work. A record of attendance is kept in the health & safety file. A suitable venue must be supplied to house this training.
- It is essential that the *Contractor* provides comprehensive training (both theoretical and practical) to the *Employer's* staff members in the operation and maintenance of the *works*. On completion of the training, it is expected that the *Employer's* personnel will be able to deal competently with any out-of-course situation that may arise during daily operation of the plant.

The *Contractor* compiles a Training Manual containing easy-to-understand notes on all the subject matter covered in the training courses. Separate manuals are prepared for Operations training and Maintenance training. Each Learner must receive a copy of the Training Manual for the course that he/she has attended. In addition, three copies of each Training Manual must be provided for the *Project Manager* to deliver to the *Employer* for reference purposes.

All training must be completed before the commencement of Completion. The *Employer* will not accept responsibility for the Operation and Maintenance of any of the *works* in use until the training has been satisfactorily completed.

The *Contractor* submits a Training Programme to the *Project Manager* for review no later than eight weeks before Completion. Because the *Employer's* personnel are engaged on shift work, it may be necessary to schedule a number of training courses at different times in the day.

The *Contractor* maintains an accurate record of the training given and is to submit a report on completion of the training. The report will include, but not be limited to, details of the Trainer, the scope of the training, the duration of training on each topic and the *Employer's* personnel who received training.

7.9 **INSURANCE PROVIDED BY THE EMPLOYER**

- Insurance provided by the *Employer* is contained in the Contract Data – Part 1.

7.9.1 Insurance provided by the *Employer* is contained in the Contract Data – Part 1.

7.10 CONTRACT CHANGE MANAGEMENT

- No additional requirements apply to ECC Clause 60 series.

7.10.1 No additional requirements apply to ECC Clause 60 series.

Please include the above default statement under paragraph 2.10.1 of the Works Information.

HMG will manage internally any specific requirements for Transnet prior to approval and/or notification to a proposed compensation event assessment (time and cost) before the Project Manager notifies implementation under ECC Clause 65.1.

7.11 PROVISION OF BONDS AND GUARANTEES

7.11.1 The form in which a bond or guarantee required by the conditions of contract (if any) is to be provided by the *Contractor* is given in Part 1 Agreements and Contract Data, document C1.3, Sureties.

7.11.2 The *Contractor* provides a bond or guarantee as required by the conditions of contract concurrently with the execution by the Parties of the form of agreement for the ECC contract.

7.12 RECORDS OF DEFINED COST, PAYMENTS & ASSESSMENTS OF COMPENSATION EVENTS KEPT BY *CONTRACTOR*

7.12.1 The *Contractor* keeps the following records available for the *Project Manager* to inspect:

7.12.2 The *Contractor* keeps the following records available for the *Project Manager* to inspect:

- Records of design employees location of work (if appropriate);
- Records of Equipment used and people employed outside the Working Areas (if applicable); and

7.12.3 The *Contractor* keeps the following records available for the *Project Manager* to inspect:

- Records of design employees location of work (if appropriate);
- Records of Equipment used and people employed outside the Working Areas (if applicable); and

8 Procurement

8.1 CODE OF CONDUCT

Transnet aims to achieve the best value for money when buying or selling goods and obtaining services. This however must be done in an open and fair manner that supports and drives a competitive economy. Underpinning our process are several acts and policies that any supplier dealing with Transnet must understand and support. These are:

- The Transnet Procurement Procedures Manual (PPM);
- Section 217 of the Constitution - the five pillars of Public PSCM (Procurement and Supply Chain Management): fair, equitable, transparent, competitive and cost effective;
- The Public Finance Management Act (PFMA);
- The Broad Based Black Economic Empowerment Act (B-BBEE); and
- The Anti-Corruption Act.

This code of conduct has been included in this contract to formally apprise Transnet Suppliers of Transnet's expectations regarding behaviour and conduct of its Suppliers.

Prohibition of Bribes, Kickbacks, Unlawful Payments, and Other Corrupt Practices

Transnet is in the process of transforming itself into a self-sustaining State Owned Enterprise, actively competing in the logistics industry. Our aim is to become a world class, profitable, logistics organisation. As such, our transformation is focused on adopting a performance culture and to adopt behaviours that will enable this transformation.

1. *Transnet will not participate in corrupt practices and therefore expects its suppliers to act in a similar manner.*
 - Transnet and its employees will follow the laws of this country and keep accurate business records that reflect actual transactions with and payments to our suppliers.
 - Employees must not accept or request money or anything of value, directly or indirectly, to:
 - Illegally influence their judgement or conduct or to ensure the desired outcome of a sourcing activity;
 - Win or retain business or to influence any act or decision of any decision stakeholders involved in sourcing decisions; or
 - Gain an improper advantage.
 - There may be times when a supplier is confronted with fraudulent or corrupt behaviour of Transnet employees. We expect our Suppliers to use our “Tip-offs Anonymous” Hot line to report these acts. (0800 003 056).
2. *Transnet is firmly committed to the ideas of free and competitive enterprise.*
 - Suppliers are expected to comply with all applicable laws and regulations regarding fair competition and antitrust.
 - Transnet does not engage with non-value adding agents or representatives solely for the purpose of increasing B-BBEE spend (fronting)
3. *Transnet’s relationship with suppliers requires us to clearly define requirements, exchange information and share mutual benefits.*
 - Generally, Suppliers have their own business standards and regulations. Although Transnet cannot control the actions of our suppliers, we will not tolerate any illegal activities. These include, but are not limited to:
 - Misrepresentation of their product (origin of manufacture, specifications, intellectual property rights, etc.);
 - Collusion;
 - Failure to disclose accurate information required during the sourcing activity (ownership, financial situation, B-BBEE status, etc.);
 - Corrupt activities listed above; and
 - Harassment, intimidation or other aggressive actions towards Transnet employees.
 - Suppliers must be evaluated and approved before any materials, components, products or services are purchased from them. Rigorous due diligence is conducted and the supplier is expected to participate in an honest and straight forward manner.
 - Suppliers must record and report facts accurately, honestly and objectively. Financial records must be accurate in all material respects.

Conflicts of Interest

1. *A conflict of interest arises when personal interests or activities influence (or appear to influence) the ability to act in the best interests of Transnet.*
 - Doing business with family members
 - Having a financial interest in another company in our industry

8.2 THE *CONTRACTOR'S* INVOICES

8.2.1 When the *Project Manager* certifies payment (see ECC Clause 51.1) following an assessment date, the *Contractor* complies with the *Employer's* procedure for invoice submission.

The contractor shall invoice on a monthly basis in accordance to the project progress and against the agreed project schedule and cash flow. All invoices shall be submitted on or before the 20th of each month for payment after 30 days of acceptance.

8.2.2 The invoice must correspond to the *Project Manager's* assessment of the amount due to the *Contractor* as stated in the payment certificate.

8.2.3 The invoice states the following:

Invoice addressed to Transnet SOC Ltd;

Transnet SOC Limited's VAT No: 4720103177;

Invoice number;

The *Contractor's* VAT Number; and

The Contract number [insert relevant details].

The invoice contains the supporting detail [insert relevant details].

8.2.4 The invoice is presented as an original.

8.2.5 B-BBEE and preferencing scheme

Points will be awarded to tenderers based on preferencing using the balanced Department of Trade and Industry (DTI) scorecard. The application of the Broad-Based Black Economic Empowerment recognition levels and score preferencing points are as follows:

Contribution Level	Qualification Points on the generic scorecard	Broad-Based BEE Recognition Level	Preferencing Points Scored
Level 1	Greater than or equal to 100 points	135%	10
Level 2	Greater than or equal to 85 points but less than 100 points	125%	9.26
Level 3	Greater than or equal to 75 points but less than 85 points	110%	8.15
Level 4	Greater than or equal to 65 points but less than 75 points	100%	7.41
Level 5	Greater than or equal to 55 points but less than 65 points	80%	5.95
Level 6	Greater than or equal to 45 points but less than 55 points	60%	4.44
Level 7	Greater than or equal to 40 points but less than 55 points	50%	3.70
Level 8	Greater than or equal to 30 points but less than 40 points	10%	.74
Level 9	Less than 30 points	0%	0.00

On the basis the tenderer with a B-BBEE recognition level of 135% will achieve 10 points, and the points will be allocated accordingly on a pro-rata basis as per the table above.

In addition to the above, provision is made for the case where a tenderer has greater than 50% black ownership. In this instance, provided the requisite documentary evidence is supplied, the tenderer will then be awarded preference points one level above that awarded based on the DTI scorecard. For example, a tenderer with > 50% black ownership obtaining a Level 6 contribution equating to 4.44 points will be awarded 5.95 preferencing points (Level 5).

Tenderers claiming Preference Points must submit together with the tender document their generic scorecard, evaluated by an independent accreditation agency. Transnet therefore requires tenderers to have been accredited by ~~one of the various~~ SANAS Accreditation Agencies in accordance with the latest relevant Codes of Practice applicable not more than 3 months prior to the date of tender also reserves the right to carry out an independent audit of the tenderers scorecard components at any stage from the date of close of the tenders until completion of the contract.

Tenderers with no accreditation will score zero points for preferencing.

8.3 SUBCONTRACTING

8.3.1 Preferred subcontractors

NEC 3 ECC does not make use of nominated subcontracting, but the *Employer* may list which subcontractors or suppliers the *Contractor* preferably should enter into subcontracts with. Materials need to be obtained from a particular supplier or group of suppliers to comply with operational standards as listed below:

Supplier	Description
Africa Projects	Piping systems – SWBS 300
Bureau Veritas	Plan Review and Approval - 20% Deposit
Cinco Engineering	Set-up and Preparation
Femserve	924 x Jacking Brackets
Hydac Technologies	hydraulic power unit
Jotun	HARDTOP AX, BLACK
Mammoet Southern Africa	Transport of vessels
MRH Painters & Decorating CC	NEW MILD STEELWORKBOATS. ±2232m ² per Workboat
Naval Africa	For 1st Vessel Based on 4.3% of individual vessel price
Nucor Technology Systems	Drawings: 1905-320
Wesa Trading	Anchor Type Pull-TW 160kg, fully balanced each R32 500

8.3.2 The *Contractor* uses one of the following specialists and suppliers as his Subcontractors:

Supplier	Description
Africa Projects	Piping systems – SWBS 300
Bureau Veritas	Plan Review and Approval - 20% Deposit
Cinco Engineering	Set-up and Preparation
Femserve	924 x Jacking Brackets
Hydac Technologies	hydraulic power unit
Jotun	HARDTOP AX, BLACK
Mammoet Southern Africa	Transport of vessels
MRH Painters & Decorating CC	NEW MILD STEELWORKBOATS. ±2232m ² per Workboat
Naval Africa	For 1st Vessel Based on 4.3% of individual vessel price
Nucor Technology Systems	Drawings: 1905-320
Wesa Trading	Anchor Type Pull-TW 160kg, fully balanced each R32 500

8.3.3 Subcontract documentation, and assessment of subcontract tenders

Contractor is to prepare subcontract documentation and will use the NEC system and contracts shall adhere to NEC system.

The contractor shall award to whomever contractor deems qualified and competent to meet quality requirements as per legislative bodies

8.3.4 Where the *Contractor* employs a Subcontractor who constructs or installs part of the *works* or who supplies Plant and Materials for incorporation into the *works* which involves a Subcontractor operating on the Site and/or Working Areas, then the *Contractor* ensures that any such Subcontractor complies with the CEMP, SES and PES (described under paragraph 2.4 of the *Works Information*) as appropriate and that the subcontract documentation places back-to-back obligations on the Subcontractor which reflect the *Contractor's* obligations under the CEMP, SES and PES, all within the *Contractor's* Quality Management System as per paragraph 2.5 of the Works Information.

8.3.5 The *Contractor* requires a Subcontract, where an NEC3 contract is used, to state the same main option A as this contract between the *Contractor* and the *Employer* for the following elements of the *works*:

TNPA considers transparency (and productivity) issues, therefore for all elements of the works, which are subcontracted, the Project Manager needs to see back-to-back payment provisions via the ESCROW account.

8.3.6 The *Contractor* uses an NEC3 contract with respect to the following elements of the *works*:

All major elements of the works the Contractor needs to use a contract from the NEC3 suite, to benefit the Employer in back-to-back provisions of early warning, programme and compensation events. In addition to the NEC3 suite, please consider which CIDB Standard Documents NEC3 style contracts should be used (the supply contracts are particularly relevant where Plant is manufactured off the Site and Working Areas).

Alternatively, please consider, on a project specific basis, what minor subcontracts (specialists) and / or suppliers subcontracts (for goods only) [state generic categories] the Contractor may procure outside the NEC3 suite of contracts.

8.3.7 Limitations on subcontracting

The Employer may require that the Contractor must subcontract certain specialised work, or that the Contractor shall not subcontract more than a specified proportion of the whole of the contract.

8.4 PLANT AND MATERIALS

8.4.1 Quality

8.4.2 The *Contractor* provides Plant and Materials for inclusion in the *works* in accordance with SANS 1200A sub-paragraph 2.1, unless otherwise stated elsewhere in the *Works Information* provided by the *Employer*. All Plant and Materials are new, unless the use of old or refurbished goods and/or Materials are expressly permitted as stated elsewhere in this *Works Information* or as may be subsequently instructed by the *Project Manager*.

8.4.3 Where Plant and Materials for inclusion in the *works* originate from outside the Republic of South Africa, all such Plant and Materials are new and of merchantable quality, to a recognised national standard, with all proprietary products installed to manufacturers' instructions.

8.4.4 The *Contractor* replaces any Plant and Materials subject to breakages (whether in the Working Areas or not) or any Plant and Materials not conforming to standards or specifications stated and notifies the *Project Manager* and the *Supervisor* on each occasion where replacement is required.

8.4.5 Plant & Materials provided "free issue" by the Employer

Contractor to make use of all Materials that has been already purchased by *Employer* for the usage of embedded unto the incomplete workboats, and take over the delivery by others on behalf of the Employer, the off-loading, inspection, storage, care custody and control, Materials, etc. The Materials are to be provided by the Employer and by granting access to the where they are currently stored at Inofort (Pty) Ltd as described in Part C4, the

permission will to takeover Materials will be upon award and properly communicated by *Project Manager*. All other Plant and Materials are to be provided by the Contractor.

8.4.6 The *Employer* provides the following Plant and Materials for the *Contractor* to use in the *works*:

The Employer has provided a list of Materials Annexure H, for the Contractor to use in the works.

8.4.7 The Plant and Materials provided by the *Employer* are solely at the risk of the *Contractor* for inclusion in the *works*. The *Contractor* takes responsibility for ensuring the Plant and Materials do not contain a Defect(s) and are in compliance with the standards stated elsewhere in the *Works Information*.

8.4.8 The *Contractor* takes receipt of the Plant and Materials from the *Employer* in accordance with the following procedure:

Inspection and Acceptance: The Contractor inspects the Plant (equipment) and Materials (supplies) issued by the Employer to ensure they meet the specifications and quality standards defined in the contract. If any discrepancies or damages are identified, the Contractor may raise concerns and a resolve can be made on the items.

Documentation: The Contractor prepares the necessary documentation to record the receipt of the Plant and Materials. This may include a delivery receipt or an acknowledgment form to be signed by both parties, indicating the date of receipt and the condition of the items.

Transfer of Responsibility: Upon acceptance, the responsibility for the Plant and Materials usually transfers from the Employer to the Contractor. This means that any subsequent loss, damage, or maintenance of the items becomes the Contractor's responsibility, unless stated otherwise in the contract.

Inventory and Verification: The Contractor may conduct an inventory check to ensure that all listed items are accounted for and match the quantities mentioned in the contract. This step helps prevent any disputes or misunderstandings later on.

Storage and Security: If the Contractor is not immediately ready to utilize the Plant and Materials, they may arrange for suitable storage facilities and take necessary security measures to safeguard the items against theft, damage, or unauthorized access.

Ongoing defects corrections: Depending on the nature of the Plant and Materials, the Contractor may be responsible for their ongoing maintenance, repairs, or replacement during the project's execution. The specific corrections and obligations should be clearly defined in the contract as per clause ECC Clause 80.1.

8.4.9 The *Contractor* provides all other Plant and Materials necessary for the *works* not specifically stated to be provided "free issue" by the *Employer*.

8.4.10 The *Contractor* performs the following with respect to Plant and Materials procured for the *works*:

State manufacturers certificates stating country of origin, tests carried out by manufacturer, requirements for labels, signage, component name plates, instruction sheets, shipping marks, software codes etc.

8.5 TESTS AND INSPECTIONS BEFORE DELIVERY

8.5.1 The *Contractor* submits to the Supervisor details to certify that tests and inspections have been carried out on Plant and Materials by others which include:

- AIA;
- INC; and

8.6 MARKING PLANT AND MATERIALS OUTSIDE THE WORKING AREAS

8.6.1 The *Contractor* prepares and marks items of Plant and Materials outside the Working Areas with tag system and unique numbering

With respect to Plant and Materials, which are manufactured (and possibly assembled) overseas prior to delivery to South Africa. It is mandatory that the contractor to take digital photographs for transmission to the supervisor as proof of marking.

Importantly, however, marking alone should not satisfy Employer with respect to payment for good title. A further contractual security is required, in order for the Project Manager to include such Plant and Materials in assessments and for Transnet to make payment. Refer to Procurement Dept.



Part C4: Site Information

PART 4: SITE INFORMATION

Core clause 11.2(16) states

“Site Information is information which

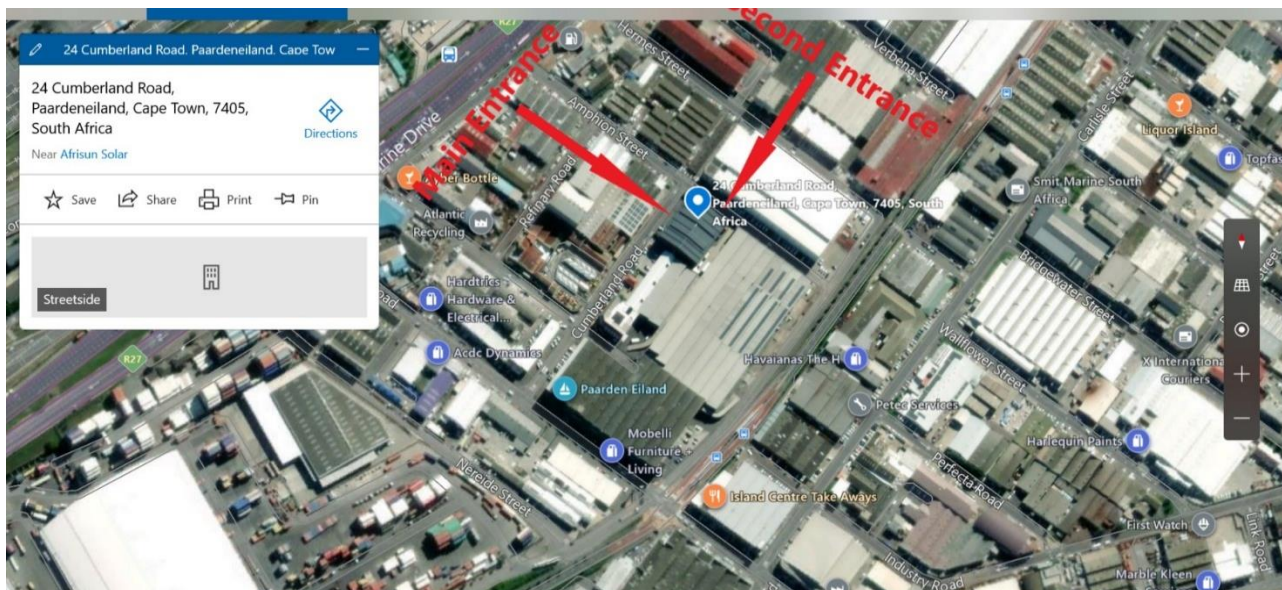
- describes the Site and its surroundings and
- is in the documents which the Contract Data states it is in.”

In Contract Data, reference has been made to this Part 4 of the contract for the location of Site Information.

1. Description of the Site and its surroundings

1.1. General description

The project site or Workshop is approximately 5Km from the Cape Town CBD and is located at 24 Cumberland Road, Paardeneiland, Cape town



1.2. Existing buildings, structures, and plant & machinery on the Site

Workshop investigations have been undertaken on the site by the Transnet personnel. No responsibility is taken by Transnet because of any deduction by the bidder from observation and interpretation of the Transnet’s report thereof.

The workshop was previously utilised by previous contractor/s that was working on the WORKBOATS Project, the setup of the workshop is as following:

- * Dimensions in meters (Length X Width X Height) = 40m X 20m X approx. 20m high
- * 1no Office Space
- * 1no Canteen/eating area that may fit 12no of people at a time

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2023/08/0004/37853/RFP
DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.

- * 2no of Ablution Facilities
- * 4no of 6.0m storage containers with Boat material inside

The Bidder will be required to conduct their own assessment to ensure that the Workshop will be appropriate for their own use and make provisions accordingly.

1.2.1. Pictures of existing facilities

Second Entrance to the Workshop



Workboats inside the Workshop

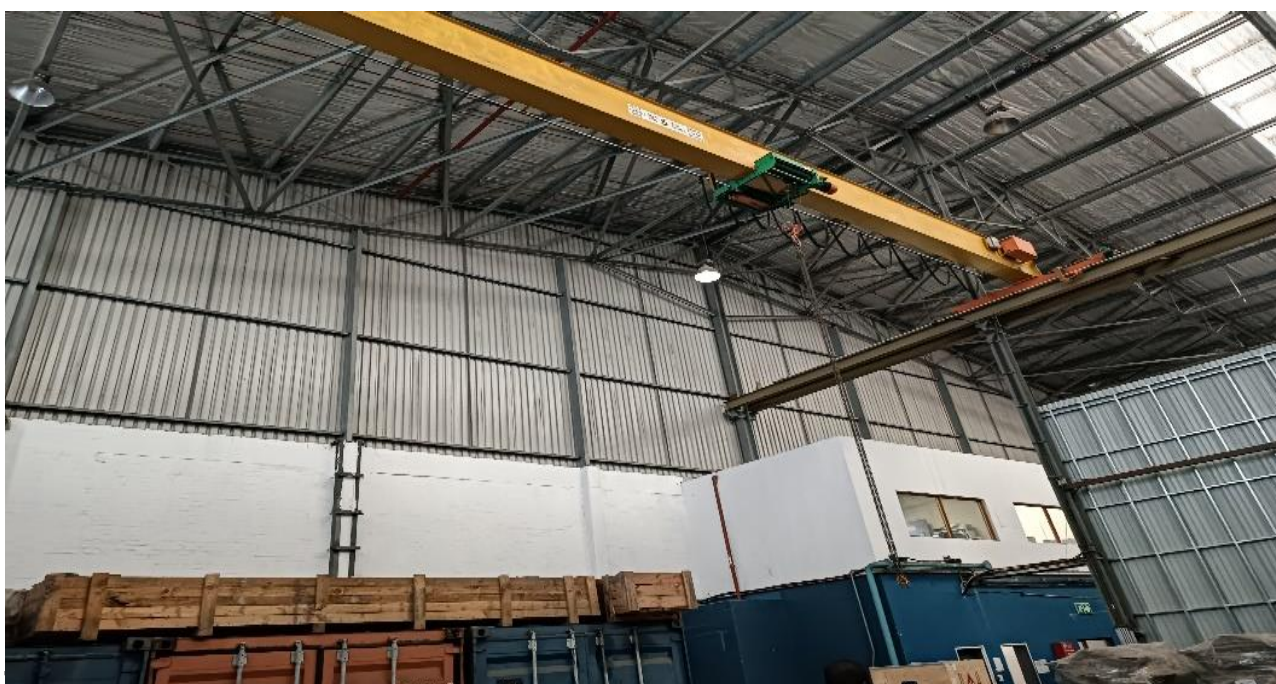


TRANSNET NATIONAL PORTS AUTHORITY
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Storage containers inside the Workshop



Lifting crane inside the Workshop



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Office inside the Workshop



Ablution Facilities inside the Workshop



TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2023/08/0004/37853/RFP
DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.

Canteen inside the Workshop – Pic 1



Canteen inside the Workshop – Pic 2



1.3. Subsoil information

No Subsoil information (Existing Building)

1.4. Hidden services

No information of any underground or overhead services that may interfere or disrupt works.

1.5. Other reports and publicly available information

No reports



Part T2:
Returnable
Documents



TRANSNET NATIONAL PORTS AUTHORITY

TENDER NUMBER: TNPA/2023/08/0004/37853/RFP

DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.

T2.1 List of Returnable Documents

2.1.1 These schedules are required for eligibility purposes:

- T2.2-01 **Stage One as per CIDB: Eligibility Criteria Schedule** - Certificate of attendance at Compulsory Tender Clarification Meeting

2.1.2 Stage Two as per CIDB: these schedules will be utilised for evaluation purposes:

Details of the returnables per evaluation schedule is on the evaluation schedule

- T2.2-02: **Evaluation Schedule:** Previous Experience in Shipbuilding
- T2.2-03: **Evaluation Schedule:** Management & CV's of Key Personnel and Organogram.
- T2.2-04: **Evaluation Schedule:** Programme
- T2.2-05: **Evaluation Schedule:** Health and Safety Requirements
- T2.2-06: **Evaluation Schedule:** Method Statement
- T2.2-07: **Evaluation Schedule:** Quality Expectations

2.1.3 Stage Three : These schedules will be utilised for claiming points for preference point system (90/10):

- T2.2-08: B-BBEE Certificate or Sworn Affidavit or CIPC B-BBEE Certificate or Consolidated B-BBEE scorecard in case of JV, will be accepted as per DTIC guidelines.
- T2.2-09: The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: EMEs and/or QSEs who are 51% black-owned must submit:
- Sub-contracting agreements and Declaration / Joint Venture Agreement and CIPC – B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate as per DTIC guideline

2.1.4 Returnable Schedules:

General:

- T2.2-10: Authority to submit tender
- T2.2-11: Record of addenda to tender documents
- T2.2-12: Letter of Good Standing
- T2.2-13: Risk Elements
- T2.2-14: Availability of equipment and other resources

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T2.2-15: Health and Safety Questionnaire

T2.2-16: Job Creation

2.1.5 Agreement and Commitment by Tenderer:

T2.2-17: CIDB SFU ANNEX G Compulsory Enterprise Questionnaire

T2.2-18: Non-Disclosure Agreement

T2.2-19: RFP Declaration Form

T2.2-20: RFP – Breach of Law

T2.2-21: Certificate of Acquaintance with Tender Document

T2.2-22: Supplier Integrity Pact

T2.2-23: Supplier Code of Conduct

T2.2-24: Agreement in terms of Protection of Personal Information Act, 4 of 2013 (“POPIA”)

T2.2-25: Disclosure Information : Domestic Prominent Influential Persons (DPIP) OR Foreign Prominent Public Officials (FPPO)

T2.2-26: Supplier Declaration Form

2.1.6 Bonds/Guarantees/Financial/Insurance:

T2.2-27: Insurance provided by the Contractor

T2.2-28: Form of Intent to provide a Performance Guarantee

T2.2-29: Foreign Exchange requirements

T2.2-30: Forecast Rate of Invoicing

T2.2-31: Three (3) years audited financial statements

2.2 C1.1 Offer portion of Form of Offer & Acceptance**2.3 C1.2 Contract Data****2.4 C1.3 Forms of Securities****2.5 C2.1 Pricing Instructions (Activity Schedule)****2.6 C2.2 Price List**

T2.2-01: Eligibility Criteria Schedule:

Certificate of Attendance at Compulsory Tender Clarification Meeting

This is to certify that

(Company Name)

Represented
by:

(Name and
Surname)

Was represented at the compulsory tender clarification meeting

Held at:		
On (date)		Starting time:

Particulars of person(s) attending the meeting:

Name

Signature

Capacity

Attendance of the above company at the meeting was confirmed:

Name

Signature

**For and on Behalf of the
Employers Agent.**

Date

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T2.2-02: Evaluation Schedule: Previous experience

Note to tenderers:

Company (not individuals) experience in successfully designing, building, commissioning, and handing over 3 similar projects (i.e., same class or higher) motorized vessels (in accordance with scope of work) in the past 15 years. Including completion certificates supported by reference letters.

Tenderers are required to demonstrate their overall experience in the delivery of similar works over the last 15 years, and to this end shall supply a sufficiently detailed reference list with contact details of existing customers and also demonstrate their relevant experience with regards to the shipbuilding or ship repairing as detailed in the Works Information.

References to substantiate experience indicated showing:

Project description

Customer name and contact details

Contract duration

Evidence of project completion - Completion Certificate or Past or existing customers Reference letter

All references and completion certificates to be submitted on the client’s letterhead

A list of previous experience in designing, building, commissioning and handing over motorized vessels must include the following:

- Reference letter(s) for previously designing, building, commissioning and handing over motorized vessels and
- Reference letter(s) from client(s) on clients’ company letterhead signed by the client confirming the work performed with a clear indication of clients’ impression of the work performed and
- References must be traceable in order for the experience to be verified by TNPA where necessary. (No previous or current PO’s or letter of award will be accepted)
- The Completion certificate for each project must include or supported by the following information:
Completion certificates for projects completed on the client letter head to substantiate the experience.

Shipbuilding or Ship Repair Experiences			
Project Description	Client name and contact details	Contract duration	Date of project completion

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Attach the index of documentation to this schedule to substantiate your submission:

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The table below indicate the method of scoring that will be followed to evaluate the previous experience submitted by the Tenderer:

Points (41)	The Tenderer demonstrates experience in Shipbuilding and or Ship repair industry with a proven track record.	Evidence of project completion
Score 0	No Response or no project submitted of the similar vessel previously built and delivered successfully or No evidence of designing of similar vessel irrespective of evidence of vessels previously delivered = 0%	
Score 20	1 project submitted of similar vessel previously designed, built and delivered successfully in the past 15 years	The tenderer has submitted signed and dated reference letters or completion certificates for projects completed on the client letter head to substantiate the experience.
Score 40	2 projects submitted of similar vessel previously designed, built and delivered successfully in the past 15 years	The tenderer has submitted signed and dated reference letters or completion certificates for projects completed on the client letter head to substantiate the experience.
Score 60	3 projects submitted of similar vessel previously built and delivered successfully in the past 15 years	The tenderer has submitted signed and dated reference letters or completion certificates for projects completed on the client letter head to substantiate the experience.
Score 80	3 < projects submitted of similar vessel previously built and delivered successfully in the past 15 years ≤ 5	The tenderer has submitted signed and dated reference letters or completion certificates for projects completed on the client letter head to substantiate the experience.
Score 100	More than five (5) projects submitted of similar vessel previously built and delivered successfully in the past 15 years	The tenderer has submitted signed and dated reference letters or completion certificates for projects completed on the client letter head to substantiate the experience.

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T2.2-02: Evaluation Schedule - Management & CV's of Key Personnel

The tender must be able to demonstrate that the project personnel have sufficient knowledge, experience and qualifications to provide the required services and submit the following documents as a minimum with the tender:

1. The experience of assigned key persons in relation to the scope of work will be evaluated from two different points of view, namely:
 - i. Relevant no. of years of experience – total number of projects involved in and knowledge of issues pertinent to the project scope e.g., Naval Architecture and Structural including class certification or fabrication to class standards, ballasting, marine application steel fabrication and coating; Mechanical/Marine design and construction; Electrical, Control and Instrumentation Design; Industrial Projects.
 - ii. The education, training and skills of the assigned staff in the specific sector, field, subject, etc. which is directly linked to the Scope of Works. Proof of education and training must be attached to the C.V.
2. Comprehensive CV's should be attached to this schedule:

As a minimum each CV should address the following, but not limited to;

- i. Personal particulars
 - a. Name
 - b. Place (s) of tertiary education and dates associated therewith.
 - c. Professional awards
- ii. Qualifications (degrees, diplomas, grades of membership of professional societies and professional registrations)
- iii. Name of current employer and position in enterprise
- iv. Overview of post graduate experience (year, organization and position)
- v. Outline of recent assignments / experience that has a **bearing on the Scope of Works**

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List of Key Persons assigned to the above disciplines.

No.	Key Persons	Minimum Qualification and/or Registration	Name and Surname	CV attached (Yes/No)
1	Project Manager	SACPCMP Pr CPM/PMP registered with Engineering or Project Management related diploma/degree with extensive no. of years of experience in construction projects similar to this project works		
2	Naval Architect	CV's with traceable references and submit proof of degree in Naval Architecture and registered with a recognized organisation such as RINA or similar		
3	Risk Specialist	Qualifications (Diploma or Degree in Engineering or Built Environment or Project Management) CV's with traceable references and relevant Enterprise Risk management experience. Professional Registrations (PMI or PMSA or SACPMP or relevant risk management)		

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4	Chief Engineer Unlimited	Experience in shipbuilding with a Diploma in Mechanical Engineering & Chief Engineer Unlimited Standards of Training, Certification, and Watchkeeping (STCW).		
5	6 Coded Welders	Years Experience that are Class Approved with qualification (i.e. Welder's Qualification Test Certificate, Welders Procedure Specification) Professional Registrations (trade tested)		
6	Millwright	Years millwright Experience with trade test certificate		
7	Spray painter	Spray painter with experience in Shipbuilding		
8	Boilermaker	Qualifications, Years Experience with a trade test certificate,		
9	Organogram that is Project Specific	Project Specific Organogram		

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The scoring of the Management & CV's of Key Persons will be as follows:

No.	No response	Very Poor	Poor	Acceptable Response	Good Response	Excellent Response
	(0)	(20)	(40)	(60)	(80)	(100)
1	No response = 0%	less than 3 Years Experience with no diploma or degree in Engineering or Built Environment or Project Management = 20%	Less 3 years' experience years with a diploma or degree in Engineering or Built Environment or Project Management = 40%	3 ≤ years' experience with a diploma or degree in Engineering or Built Environment or Project Management ≤ 5 = 60%	5 < years' experience with a diploma or degree in Engineering or Built Environment or Project Management ≤ 7 = 80%	More than 7 years' experience with a diploma or degree in Engineering or Built Environment or Project Management and professionally registered with PMI or PMSA = 100%
2	No Response or Naval Architect with no degree in Naval Architecture = 0%	Less than three years' experience or not Professionally registered = 20%	Professionally registered Naval Architect with 3 ≤ years' experience ≤ 5 = 40%	Professionally registered Naval Architect with 5 < years' experience ≤ 7 = 60%	Professionally registered Naval Architect with 7 < years' experience ≤ 10 = 80%	Professionally registered Naval Architect with more than 10 years' experience = 100%
3	No Response = 0%	Years experience < 1 = 20%	1 < Years Experience with a risk management certificate or degree or diploma in engineering or built environment ≤ 3 = 40%	3 < years' experience with a risk management certificate or degree or diploma in engineering or built environment ≤ 5 = 60%	5 < years' experience with a risk management certificate or degree or diploma in engineering or built environment ≤ 7 = 80%	More than seven years' experience with a risk management certificate or degree or diploma in engineering or built environment = 100%
4	No Response = 0%	Years Experience in shipbuilding with a Diploma in Mechanical Engineering & Chief Engineer Unlimited Standards of Training, Certification, and Watchkeeping (STCW) < 1 = 20%	1 < Years Experience in shipbuilding with a Diploma in Mechanical Engineering & Chief Engineer Unlimited Standards of Training, Certification, and Watchkeeping (STCW) ≤ 3 = 40%	3 < Years Experience in shipbuilding with a Diploma in Mechanical Engineering & Chief Engineer Unlimited Standards of Training, Certification, and Watchkeeping (STCW) ≤ 5 = 60%	5 < Years Experience in shipbuilding with a Diploma in Mechanical Engineering & Chief Engineer Unlimited Standards of Training, Certification, and Watchkeeping (STCW) ≤ 7 = 80%	> 7 Years Experience in shipbuilding with a Diploma in Mechanical Engineering & Chief Engineer Unlimited Standards of Training, Certification, and Watchkeeping (STCW) = 100%

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5	No Response or not class approved and/or no qualification = 0%	Years Experience < 1 = 20%	1 < Years Experience that are Class Approved with qualification (i.e., Welder's Qualification Test Certificate, Welders Procedure Specification) ≤ 3 = 40%	3 < Years Experience that are Class Approved with qualification (i.e., Welder's Qualification Test Certificate, Welders Procedure Specification) ≤ 5 = 60%	5 < Years Experience that are Class Approved with qualification (i.e., Welder's Qualification Test Certificate, Welders Procedure Specification) ≤ 7 = 80%	> 7 Years Experience that are Class Approved with qualification (i.e., Welder's Qualification Test Certificate, Welders Procedure Specification) = 100%
6	No Response or no trade test certificate = 0%	Years millwright Experience < 1 = 20%	1 < Years millwright Experience with no trade test certificate ≤ 3 = 40%	3 < Years millwright Experience with trade test certificate ≤ 5 = 60%	5 < Years millwright Experience with trade test certificate ≤ 7 = 80%	> 7 Years millwright Experience with trade test certificate = 100%
7	No Response or no trade test certificate = 0%	Spray painter with experience in Shipbuilding < 1 = 20%	1 < Spray painter with experience in Shipbuilding ≤ 3 = 40%	3 < Spray painter with experience in Shipbuilding ≤ 5 = 60%	5 < Spray painter with experience in Shipbuilding ≤ 7 = 80%	> 7 Spray painter with experience in Shipbuilding = 100%
8	No Response or no trade test certificate = 0%	Years Experience < 1 = 20%	1 < Years Experience with no trade test certificate ≤ 3 = 40%	3 < Years Experience with a trade test certificate ≤ 5 = 60%	5 < Years Experience with a trade test certificate ≤ 7 = 80%	> 7 Years Experience with a trade test certificate = 100%
9	Missing 5 key people or No response or Not project specific= 0%	Missing 4 key people = 20%	Missing 3 key people = 40%	Missing 2 key people = 60%	Missing 1 key person = 80%	All key people included with attached CV and qualification = 100%

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Index of documentation attached to this schedule:

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T2.2-04: Evaluation Schedule: Programme

Note to tenderers:

The Tenderer provides the proposed programme and/or makes reference to his proposed programme and electronic programme developed using a scheduling software tool.

The tenderer shall provide the proposed programme detailed to minimum of level 4 showing as a minimum the following:

▪ **Ability to provide the services:**

Ability to provide the services in terms of the *Employer's* requirements within the required timeframe indicating, in a logical sequence, the order and timing of the services that will take place in order to Provide the Works clearly indicating the capacity & capability to achieve the dates stated in the Contract Data.

▪ **Provision of Dates:**

The *Contractor* clearly indicates in the schedule all key milestones, activities & information related to the following –

- Float,
- Time Risk Allowances,
- Health and safety requirements,
- Procedures set out in this contract,
- Work by the *Employer* and Others,
- Access to a part of the site if later than its *access date*,
- Acceptances,
- Plant & Materials and other things to be provided by the employer,
- Information by Others,
- *starting date, access dates, Key Dates and Completion Date*
- planned Completion for each Key Date for each option and the complete works

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▪ **Resourcing & Equipment:**

The *Tenderer indicates* for each operation, a statement of how the *Tenderer* plans to do the work identifying the principal Equipment and other resources which he plans to use.

The *Contractor's* programme shows the following levels:

- Level 1 Master Schedule – defines the major operations and interfaces between engineering design, procurement, fabrication and assembly of Plant and Materials, transportation, construction, testing and pre-commissioning, commissioning and Completion.
- Level 2 Project Schedule – summary schedules 'rolled up' from Level 3 Project Schedule described below
- Level 3 Project Schedule – detailed schedules generated to demonstrate all operations identified on the programme from the starting date to Completion. The Project Manager notifies any subsequent layouts and corresponding filters on revised programmes
- Level 4 Project Schedule – detailed discipline speciality level developed and maintained by the Contractor relating to all operations identified on the programme representing the daily activities by each discipline

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No.	The Tenderer must demonstrate the facility meets the minimum requirement.	<i>The tenderer shall demonstrate the following:</i>						
		Weight 10	No response	Very Poor	Poor	Acceptable Response	Good Response	Excellent Response
			(0)	(20)	(40)	(60)	(80)	(100)
1	Starting date and completion date are stated, and the schedule does not exceed 18 months.	1	No Response or Duration is not shown = 0%	Duration is 19 months or more = 20%	Duration is greater than 18 months but less than 19 months (Show Column or Gantt Chart) =40%	Duration is greater than 17 months but less than 18 months (Show Column or Gantt Chart) =60%	Duration is greater than 16 months but less than 17 months (Show Column or Gantt Chart) =80%	Duration is less than 16 months (Show Column or Gantt Chart) =100%
2	Activities to be logically tied link using critical path method (CPM). (Show the Critical path, Predecessors and Successors Column)	2	No response or programme does not link activities using CPM = 0	Activities are not all linked, and open ends exceeds 10% = 20	Activities are not all linked, and open ends are 10% or less = 40	All Activities are Completely linked using CPM with no open ends except for Start and Finish activities, Hard Constraints not exceeding 5% of total Constraints = 60	All Activities are Completely linked using CPM with no open ends except for Start and Finish activities, no hard Constraints and Soft constraints do not exceed 5% of total activities = 80	All Activities are Completely linked using CPM with no open ends except for Start and Finish activities, no constraints) No open ends in between Predecessors and Successors on Sub critical and all activities linked and No linking on Work Breakdown Structure= 100

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3	All activities as per level 4	2	No response or partially complete or schedule submission is not level 4, 3 or 2 (i.e., Level 1) = 0	The schedule is partially complete and detailed (level 2) = 20	The schedule is detailed (level 3) = 40	The schedule is complete and detailed (level 4) = 60	The schedule is complete and detailed Level 4 and Basis of schedule submitted = 80	The schedule is complete and detailed Level 4 and Basis of schedule submitted and Key Milestones = 100
4	The TNPA activities calendar on the schedule should represent the actual work week/month used. E.g., weekends, public holidays are marked as non-working days from start to finish date	1	No response = 0	The TNPA activities calendar on the schedule should represent the actual Weekends or Public holidays are marked as working days from start to finish date = 20	The TNPA activities calendar on the schedule should represent the actual Weekends are marked as working days from start to finish date = 40	The TNPA activities calendar on the schedule should represent the actual Weekends, public holidays are marked as non-working days from start to finish date = 60	The TNPA activities calendar on the schedule should represent the actual Weekends, public holidays, and builders break are marked as non-working days from start to finish date = 80	The TNPA activities calendar on the schedule should represent the actual Weekends, public holidays, and builders' breaks are marked as non-working days and float from start to finish date = 100
5	All activity durations to be realistic and activities that can be measured in days, Weeks and Months. (Show the duration Column)	2	No response = 0%	No response = 0	All Activities durations to be realistic are broken down into Months	All Activities durations to be realistic are broken down into Months and Weeks (Show the	All activities durations to be realistic are broken down into Months, Weeks, and days	All activities durations to be realistic are broken down into Weeks and days (Show

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					(Show the duration Column) = 20	duration Column) = 40	(Show the duration Column) = 60	the duration Column) = 80
6	Programme submission in PDF either Microsoft project or Primavera P6 (The soft copy will be requested during evaluation stage)	2	No response = 0	Programme submitted not in Microsoft Project or Primavera P6 = 20	Programme submitted Excel PDF format=40	Programme submitted in either Microsoft project or Primavera P6 =60	Programme submitted in either Microsoft project or Primavera P6 including resource loading (Show the resource Column or Gantt Chart) =80	Programme submitted in either Microsoft project or Primavera P6 including resource loading and cashflow forecast (Show the resource and cost Column or Gantt Chart) = 100

T2.2-05: Evaluation Schedule: Health and Safety Requirements

Submit the following documents as a minimum with your tender:

1. Signed Health and Safety Plan as per scope of work in line with TNPA Health & Safety Specification and the tenderer must include this minimum requirements: **(1)**
 - Project Scope
 - Policy
 - Hazard Identification and Risk Assessment
 - Legal & Other requirement
 - Accountabilities and Responsibilities
 - Competence, training and awareness
 - Occupational Health and Hygiene
 - Working @ Heights
 - Incident Reporting and Investigation
 - Audits and Inspections

2. Signed Policy covering the following five elements **(0.5)**
 - Commitment to Safety, prevention of pollution,
 - Continual improvement,
 - Compliance to legal requirements, appropriate to the nature of contractor's activities,
 - Hold management accountable for development of the safety systems,
 - Include objectives and targets.

3. Roles and responsibilities of legal appointees in terms of Occupational Health and Safety Act 85 (85 of 1993) and regulations including CV, Qaulifications & Registration where applicable: **(0.5)**
 - Sec. 16(2) – Delegated Authority (Ass. CEO)
 - CR 8(7) – Supervisor
 - CR 8(5) – Safety Officer/ Manager
 - CR 9(1) – Risk Assessor
 - Risk Specialist
 - Incident Investigator

4. List of job categories for project and competencies required per category and develop a training Matrix for all employees who will be working on the project.- **(1)**

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5. Overview of the tenderer’s Risk Assessment methodology, and submission of risk assessments indicating major activities of the project namely. **(1)**
6. Complete and return the tender documentation (Contractor Safety Questionnaire) **(1)** included as a returnable document, and attach all required supporting documents:
 - Valid Letter of Good Standing CR 8(7) – Supervisor
 - Safety Induction/ Orientation Booklet or Simila
 - Valid ISO 45001: 2018 Certification
 - Previously H&S Recognition Certification

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The scoring of the Tenderer's Health and safety requirements will be as follows:

No.	No response	Very Poor	Poor	Good Response	Acceptable Response	Excellent Response
	(0)	20	40	60	80	100
1	No information provided or Generic Health and Safety Plan that is not aligned to the Scope of Work or H&S Plan not signed=0%	The tenderer has submitted Signed Health and Safety Plan as per Scope of Work including less than < four (4) H&S Plan requirements=20%	The tenderer has submitted Signed Health and Safety Plan as per Scope of Work including five (5) -six (6) H&S Plan requirements=40%	The tenderer has submitted Signed Health and Safety Plan as per Scope of Work including seven (7) H&S Plan requirements=60%	The tenderer has submitted Signed Health and Safety Plan as per Scope of Work including eight (8) - ten (10) H&S Plan requirements=80%	The tenderer has submitted Signed Health and Safety Plan as per Scope of Work and other additional H&S Plan requirements=100%
2	No information provided or Health and Safety Policy not signed and /or dated by the Chief Executive Officer/ Director=0%	The tenderer has submitted Health and Safety Policy signed and dated by the CEO/ Director including one (1) key element=20%	The tenderer has submitted Health and Safety Policy signed and dated by the CEO/ Director including two (2) key elements=40%	The tenderer has submitted Health and Safety Policy signed and dated by the CEO/ Director including three (3) key elements=60%	The tenderer has submitted Health and Safety Policy signed and dated by the CEO/ Director including four (4) key elements=80%	The tenderer has submitted Health and Safety Policy signed and dated by the CEO/ Director including five (5) key elements=100%
3	No information submitted=0%	The tenderer has submitted one (1) role and responsibility of legal appointees in terms of OSH Act, 85 of 1993 and regulations=20%	The tenderer has submitted two (2) roles and responsibilities of legal appointees in terms of OSH Act, 85 of 1993 and regulations=40%	The tenderer has submitted three (3) role and responsibility of legal appointees in terms of OSH Act, 85 of 1993 and regulations=60%	The tenderer has submitted four (4) role and responsibility of legal appointees in terms of OSH Act, 85 of 1993 and regulations=80%	The tenderer has submitted five (5) role and responsibility of legal appointees in terms of OSH Act, 85 of 1993 and regulations=100%
4	No information provided or Training Matrix not signed=0%	The tenderer has submitted a signed training matrix including one (1) key responsible personnel=20%	The tenderer has submitted a signed training matrix including two (2) key responsible personnels=40%	The tenderer has submitted a signed training matrix including three (3) key responsible personnels=60%	The tenderer has submitted a signed training matrix including four (4) key responsible personnels=80%	The tenderer has submitted a signed training matrix including five (5) or more key responsible personnels=100%

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<p>5</p>	<p>No information provided or Risk Assessment submitted but not aligned with Scope of Work=0%</p>	<p>The tenderer has submitted a Risk Assessment Methodology, and Activity based Risk Assessment but only five (5) major activities are provided aligned to Scope of Work=20%</p>	<p>The tenderer has submitted a Risk Assessment Methodology, and Activity based Risk Assessment but only ten (10) major activities are provided aligned to Scope of Work=40%</p>	<p>The tenderer has submitted a Risk Assessment Methodology, and Activity based Risk Assessment but only fifteen (15) major activities are provided aligned to Scope of Work=60%</p>	<p>The tenderer has submitted a Risk Assessment Methodology, and Activity based Risk Assessment but only twenty (20) major activities are provided aligned to Scope of Work=80%</p>	<p>The tenderer has submitted a Risk Assessment Methodology, and Activity based Risk Assessment and more than twenty (20) major activities are provided and aligned to Scope of Work=100%</p>
<p>6</p>	<p>No information provided or Health & Safety Questionnaire is not fully completed and no supporting documents=0%</p>	<p>The tenderer has submitted fully completed Health and Safety Questionnaire, but no supporting documents attached=20%</p>	<p>The tenderer has submitted fully completed Health and Safety Questionnaire and one (1) supporting document attached=40%</p>	<p>The tenderer has submitted fully completed Health and Safety Questionnaire and two (2) supporting documents attached=60%</p>	<p>The tenderer has submitted fully completed Health and Safety Questionnaire and three (3) supporting documents attached=80%</p>	<p>The tenderer has submitted fully completed Health and Safety Questionnaire and four (4) supporting documents attached=100%</p>

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T2.2-06: Evaluation Schedule – Method Statement

The Tenderer has submitted a method statement which responds to the scope of work and outlines construction methodology including that relating but not limited to programme, safety related matters and an understanding of the project objective.

The method statement should articulate what the Tenderer will provide in achieving the stated objectives for the project and demonstrate alignment to Programme. Tenderers to also exhibit a clear understanding of the project and has shown a concise method statement for all activities incorporating best practice.

The Tenderer must as such explain his / her understanding of the objectives of the works and the Employer's stated and implied requirements, highlight the issues of importance, and explain the construction sequencing they would adopt to address them. The method statement should explain the methodologies which are to be adopted and demonstrate its compatibility. The approach should also include and outline processes, procedures and associated resources, to meet the requirements and indicate how risks will be managed.

The Method statement should cover:

- Outline of proposed approach
- Narrative related to the programme
- Detailed method statement, technical approach and construction sequencing in terms of the Works Information
- Demonstrate an understanding of the project objectives
- Detailed list of equipment and number thereof to execute the works, and areas it will be utilised

The Tenderer must attach his / her method statement to this page.

The method statement shall include as a minimum but not limited to the following (the contractor must refer to the works information for a full description of the scope of the works):

The Method statement shall include the following as a minimum of the critical elements in terms of Scope of Work but not limited to the following:

- a) Bridge and Navigation Equipment
- b) Electrical Monitoring and Alarm system
- c) Deck Machinery
- d) Accommodation (i.e., cabins, galley, messroom, WC)
- e) Main and Auxiliary engine room machinery

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- f) Hull and Superstructure
- g) Propulsion system
- h) Piping, Steelwork & Paintwork
- i) Tanks & Engines room spaces
- j) Fendering

Additional elements to be submitted:

- k) Provision for installation of a smart fuel consumption metering system
- l) Smart fuel consumption metering system and solar energy for lighting, geyser etc

Index of documentation attached to this schedule:

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No.	The Tenderer must demonstrate the facility meets the minimum requirement.	<i>The tenderer shall demonstrate the following:</i>						
		Weight 10	No response	Very Poor	Poor	Acceptable Response	Good Response	Excellent Response
		(0)	(20)	(40)	(60)	(80)	(100)	
1	Compliance with technical requirements (specifications) of the works information 1. Hull 2. Bollard pull 3. Accommodation 4. Main Machinery 5. Operating Criteria 6. Communication equipment 7. Fire Fighting 8. Monitoring/Electrical Equipment 9. Air conditioning 10. General/Painting 11. Under cover construction	3	No response or less than 3 are compliant = 0%	3 or more items are complaint = 20%	5 or more items are compliant = 40%	7 or more items are compliant = 60%	9 or more items are compliant = 80%	11 or more items are compliant = 100%

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	12. Generators 13. Spares/Tools							
2	<p>All Classification Society Spares are included as mentioned below:</p> <p>Safety Equipment:</p> <ul style="list-style-type: none"> Safety equipment Life-saving appliances (lifeboats, lifebuoys, life rafts, etc.) Firefighting equipment (fire extinguishers, hoses, fire pumps, etc.) <p>Navigational Equipment:</p> <p>Radar systems</p> <ul style="list-style-type: none"> GPS and navigation devices Communication systems (VHF radios, satellite communication equipment) 	2	No response or less than 90% of the total number of Classification Society Spares included = 0%	Less than 95% of the total number of Classification Society Spares included = 20%	95% of the total number of Classification Society Spares included = 40%	100% of the total number of Classification Society Spares included = 60%	105% of the total number of Classification Society Spares included = 80%	More than 105% of the total number of Classification Society Spares included = 100%

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<p>Engine Spares:</p> <ul style="list-style-type: none"> • Critical engine components (piston rings, valves, gaskets, bearings, etc.) • Spare parts for propulsion systems (shaft, propeller, gearbox components, etc.) <p>Electrical Components:</p> <ul style="list-style-type: none"> • Essential electrical spares (circuit breakers, switches, fuses, etc.) • Backup power supply components (generators, batteries, etc.) <p>Hull and Structural Components:</p> <ul style="list-style-type: none"> • Hull repair materials (patches, welding equipment, etc.) • Structural reinforcement materials (bolts, nuts, plates, etc.) 							
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	<p>Ancillary Equipment:</p> <ul style="list-style-type: none"> • Pumps and valves • HVAC system components • Hydraulic systems components <p>Spare Tools and Consumables:</p> <ul style="list-style-type: none"> • Tools required for routine maintenance and repairs • Lubricants, paints, and other consumables 							
3	<p>Method Statement includes all specifications as per the C3 - Works Information and demonstrates a clear understanding of the works information.</p>	15	<p>The tenderer has submitted no information or inadequate information to determine a score= 0%</p>	<p>The methodology/approach and work alignment to project schedule is poorly presented, generic and not tailored to address the specific project objectives and methodology = 20%</p>	<p>The methodology approach deals with only minimal characteristics of the project. The methodology/approach is generic and not tailored to address the specific project objectives and methodology = 40%</p>	<p>The methodology approach deals with most of the characteristics of the project. Satisfactory response/solution to the particular aspect of the requirement and evidence given that the stated employer's</p>	<p>The methodology approach deals with most characteristics of the project. The methodology/approach is specifically tailored to address the specific project objectives and methodology and is sufficiently flexible to accommodate changes that may occur during execution. The</p>	<p>The methodology approach deals with ALL critical characteristics of the project. Besides meeting the "80" rating, the important issues are approached in an innovative and efficient way, indicating that</p>

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						requirements will be met = 60%	methodology/approach to manage activities is specifically tailored to the critical characteristics of the project = 80%	the tenderer has outstanding knowledge of state-of-the-art approaches. The methodology approach details ways to improve the project outcomes and the quality of the outputs = 100%
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T2.2-07: Evaluation Schedule – Quality Management

Reference Standard: QAL-STD-0001 (**See Annexure J**) General Quality Requirements for Contractors and Suppliers.

Due consideration must be given to the deliverables required to execute and complete the contract as per the Quality Management Standard, QAL-STD-0001 General Quality Requirements for Contractors and Suppliers as stated above and should include but not be limited to:

1. Quality Manual that is aligned to ISO 9001:2015 QMS requirements.
2. Quality Policy that is aligned to ISO 9001:2015 requirements.
3. Project Quality Plan for the contract SHALL cover project scope and be aligned to TNPA-QUAL-REQ-014.1 General Quality Requirements for Contractors and Suppliers.
4. Quality Officer with a Quality diploma / Technical diploma with ISO 9001:2015 Quality Management System certificates, MUST have a minimum of 3 years’ experience in similar projects.
5. Quality Control Plan MUST cover all Engineering disciplines and clearly identify all inspection, test, verification requirements to meet contractual obligations, specification and drawings as required by the project scope.

These Q.C.P’s shall identify all inspections, tests and verification requirements to meet Contractual obligations, specifications, drawings and related details including destructive and non-destructive testing, witnessing and hold points.

Attached submissions to this schedule:

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The scoring of the Quality Management will be as follows:

No.	The Tenderer must demonstrate the facility meets the minimum requirement.	<i>The tenderer shall demonstrate the following:</i>						
		Weight 10	No response	Very Poor	Poor	Acceptable Response	Good Response	Excellent Response
			(0)	(20)	(40)	(60)	(80)	(100)
1	Quality Manual that is aligned to ISO 9001:2015 QMS requirements.	1	No Quality manual submitted.	Quality manual contains 1 of the 5 QMS requirements: 1. Context of the organization 2. Leadership 3. Support 4. Operation 5. Performance evaluation	Quality manual contains 2 of the 5 QMS requirements: 1. Context of the organization 2. Leadership 3. Support 4. Operation 5. Performance evaluation	Quality manual contains 3 of the 5 QMS requirements: 1. Context of the organization 2. Leadership 3. Support 4. Operation 5. Performance evaluation	Quality manual contains 4 of the 5 QMS requirements: 1. Context of the organization 2. Leadership 3. Support 4. Operation 5. Performance evaluation	Quality manual contains all 5 of the QMS requirements: 1. Context of the organization 2. Leadership 3. Support 4. Operation 5. Performance evaluation
2	Quality Policy that is aligned to ISO 9001:2015 requirements.	2	No Quality policy submitted.	Quality Policy contains 1 of 5 key policy elements: 1. is appropriate to the purpose and context of the organization 2. provides framework for setting quality objectives, 3.	Quality Policy contains 2 of 5 key policy elements: 1. is appropriate to the purpose and context of the organization 2. provides framework for setting quality objectives, 3. includes a	Quality Policy contains 3 of 5 key policy elements: 1. is appropriate to the purpose and context of the organization 2. provides framework for setting quality objectives, 3. includes a commitment to satisfy applicable	Quality Policy contains 4 of 5 key policy elements: 1. is appropriate to the purpose and context of the organization 2. provides framework for setting quality objectives, 3. includes a commitment to	Quality Policy contains all Five key policy elements: 1. is appropriate to the purpose and context of the organization 2. provides framework for setting quality objectives, 3. includes a commitment to satisfy applicable requirements, 4. includes a

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				includes a commitment to satisfy applicable requirements, 4. includes a commitment to continual improvement, 5. is communicated and understood within the organization	commitment to satisfy applicable requirements, 4. includes a commitment to continual improvement, 5. is communicated and understood within the organization	requirements, 4. includes a commitment to continual improvement, 5. is communicated and understood within the organization	satisfy applicable requirements, 4. includes a commitment to continual improvement, 5. is communicated and understood within the organization	commitment to continual improvement, 5. is communicated and understood within the organization
3	Quality Officer with a Quality diploma / Technical diploma with ISO 9001:2015 Quality Management System certificates, MUST have a minimum of 3 years' experience in similar projects.	2	No PQP submitted.	Project Quality Plan contains 1 of the 5 PQP requirements: 1. Scope of works 2. Control of documented information 3. Resources 4. Audits 5. Control of nonconforming outputs	Project Quality Plan contains 2 of the 5 PQP requirements: 1. Scope of works 2. Control of documented information 3. Resources 4. Audits 5. Control of nonconforming outputs	Project Quality Plan contains 3 of the 5 PQP requirements: 1. Scope of works 2. Control of documented information 3. Resources 4. Audits 5. Control of nonconforming outputs	Project Quality Plan contains 4 of the 5 PQP requirements: 1. Scope of works 2. Control of documented information 3. Resources 4. Audits 5. Control of nonconforming outputs	Project Quality Plan contains all 5 of the PQP requirements: 1. Scope of works 2. Control of documented information 3. Resources 4. Audits 5. Control of nonconforming outputs

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4	<p>Quality Control Plan MUST cover all Engineering disciplines and clearly identify all inspection, test, verification requirements to meet contractual obligations, specification and drawings as required by the project scope.</p>	1	No CVs submitted	CV with neither quality diploma / technical diploma with ISO 9001:2015 QMS certificate nor quality experience	CV with less than 3 years quality experience with no quality or technical qualification and ISO 9001:2015 QMS certificate	CV with 3-5 years quality experience with quality diploma / technical diploma with ISO 9001:2015 QMS certificate	CV with 6-10 years quality experience with quality diploma / technical diploma with ISO 9001:2015 QMS certificate	CV with more than 10 years quality experience with quality diploma / technical diploma with ISO 9001:2015 QMS certificate
5	<p>All activity durations to be realistic and activities that can be measured in days, Weeks and Months. (Show the duration Column)</p>	2	No QCPs submitted.	Quality Control Plan contains 1 of the 5 QCP requirements. 1.Sequence of activities 2. Procedure/Code specifications 3. Intervention Points 4. Field inspection checklist 5. Relevant signatories	Quality Control Plan contains 2 of the 5 QCP requirements. 1.Sequence of activities 2. Procedure/Code specifications 3. Intervention Points 4. Field inspection checklist 5. Relevant signatories	Quality Control Plan contains 3 of the 5 QCP requirements. 1.Sequence of activities 2. Procedure/Code specifications 3. Intervention Points 4. Field inspection checklist 5. Relevant signatories	Quality Control Plan contains 4 of the 5 QCP requirements. 1.Sequence of activities 2. Procedure/Code specifications 3. Intervention Points 4. Field inspection checklist 5. Relevant signatories	Quality Control Plan contains all 5 of the QCP requirements. 1.Sequence of activities 2. Procedure/Code specifications 3. Intervention Points 4. Field inspection checklist 5. Relevant signatories

T2.2-08 to 09 : SPECIFIC GOALS

Specific Goals	Number of points (90/10 system)
B-BBEE Status Level of Contributor 1 or 2	3.00
The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: I. EMEs and/or QSEs who are 51% black-owned	7.00
Non-compliant and/or B-BBEE Level 3-8 contributors	0.00
Total number of preference points	10.00

Specific Goals	Evidence Required
T2.2-08 B-BBEE Status Level of Contributor 1 or 2	B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline
T2.2-09 The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: I. EMEs and/or QSEs who are 51% black-owned	Sub-contracting agreements and Declaration / Joint Venture Agreement and CIPC – B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate as per DTIC guideline

Signed on this _____ day of _____ 20____

NAME

POSITION

SIGNATURE OF TENDER

T2.2-10: Authority to submit a Tender

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for his category of organisation or alternatively attach a certified copy of a company / organisation document which provides the same information for the relevant category as requested here.

A - COMPANY	B - PARTNERSHIP	C - JOINT VENTURE	D - SOLE PROPRIETOR

A. Certificate for Company

I, _____ chairperson of the board of directors _____
 _____, hereby confirm that by resolution of the
 board taken on _____ (date), Mr/Ms _____,
 acting in the capacity of _____, was authorised to sign all
 documents in connection with this tender offer and any contract resulting from it on behalf of
 the company.

Signed

Date

Name

Position

Chairman of the Board of Directors

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B. Certificate for Partnership

We, the undersigned, being the **key partners** in the business trading as _____
 _____ hereby authorise Mr/Ms _____

acting in the capacity of _____, to sign all documents in connection with the tender offer for Contract _____ and any contract resulting from it on our behalf.

Name	Address	Signature	Date

NOTE: This certificate is to be completed and signed by the full number of Partners necessary to commit the Partnership. Attach additional pages if more space is required.

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C. Certificate for Joint Venture

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms _____, an authorised signatory of the company _____, acting in the capacity of lead partner, to sign all documents in connection with the tender offer for Contract _____ and any contract resulting from it on our behalf.

This authorisation is evidenced by the attached power of attorney signed by legally authorised signatories of all the partners to the Joint Venture.

Furthermore we attach to this Schedule a copy of the joint venture agreement which incorporates a statement that all partners are liable jointly and severally for the execution of the contract and that the lead partner is authorised to incur liabilities, receive instructions and payments and be responsible for the entire execution of the contract for and on behalf of any and all the partners.

Name of firm	Address	Authorising signature, name (in caps) and capacity

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D. Certificate for Sole Proprietor

I, _____, hereby confirm that I am the sole owner of the business trading as _____.

Signed

Date

Name

Position

Sole Proprietor



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T2.2-11: Record of Addenda to Tender Documents

This schedule as submitted confirms that the following communications received from the *Employer* before the submission of this tender offer, amending the tender documents, have been taken into account in this specific tender offer:

	Date	Title or Details
1		
2		
3		
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Attach additional pages if more space is required.

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T2.2-12 Letter/s of Good Standing with the Workmen's Compensation Fund

Attached to this schedule is the Letter/s of Good Standing.

- 1.
- 2.
- 3.
- 4.

Name of Company/Members of Joint Venture:

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T2.2-15: Health and Safety Questionnaire

Health, Safety Questionnaire

1. SAFE WORK PERFORMANCE			
1A. Injury Experience / Historical Performance - Alberta			
Use the previous three years injury and illness records to complete the following:			
Year			
Number of medical treatment cases			
Number of restricted work day cases			
Number of lost time injury cases			
Number of fatal injuries			
Total recordable frequency			
Lost time injury frequency			
Number of worker manhours			
1 - Medical Treatment Case		Any occupational injury or illness requiring treatment provided by a physician or treatment provided under the direction of a physician	
2 - Restricted Work Day Case		Any occupational injury or illness that prevents a worker from performing any of his/her craft jurisdiction duties	
3 - Lost Time injury Cases		Any occupational injury that prevents the worker from performing any work for at least one day	
4 - Total Recordable Frequency		Total number of Medical Treatment, Restricted Work and Lost Time Injury cases multiplied by 200,000 then divided by total manhours	
5- Lost Time Injury Frequency		Total number of Lost Time Injury cases multiplied by 200,000 then divide by total manhours	
1B. Workers' Compensation Experience			
Use the previous three years injury and illness records to complete the following (if applicable):			
Industry Code:		Industry Classification:	
Year			
Industry Rate			
Contractor Rate			
% Discount or Surcharge			
Is your Workers' Compensation account in good standing? (Please provide letter of confirmation)		<input type="checkbox"/> Yes <input type="checkbox"/> No	
2. CITATIONS			
2A.	Has your company been cited, charged or prosecuted under Health, Safety and/or Environmental Legislation in the last 5 years? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide details:		
2B.	Has your company been cited, charged or prosecuted under the above Legislation in another Country, Region or State? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide details:		



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3. CERTIFICATE OF RECOGNITION

Does your company have a Certificate of Recognition?
 Yes No If Yes, what is the Certificate No. _____ Issue Date _____

4. SAFETY PROGRAM

Do you have a written safety program manual? Yes No
 If Yes, provide a copy for review

Do you have a pocket safety booklet for field distribution? Yes No
 If Yes, provide a copy for review

Does your safety program contain the following elements:

	YES	NO		YES	NO
CORPORATE SAFETY POLICY	<input type="checkbox"/>	<input type="checkbox"/>	EQUIPMENT MAINTENANCE	<input type="checkbox"/>	<input type="checkbox"/>
INCIDENT NOTIFICATION POLICY	<input type="checkbox"/>	<input type="checkbox"/>	EMERGENCY RESPONSE	<input type="checkbox"/>	<input type="checkbox"/>
RECORDKEEPING & STATISTICS	<input type="checkbox"/>	<input type="checkbox"/>	HAZARD ASSESSMENT	<input type="checkbox"/>	<input type="checkbox"/>
REFERENCE TO LEGISLATION	<input type="checkbox"/>	<input type="checkbox"/>	SAFE WORK PRACTICES	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL RULES & REGULATIONS	<input type="checkbox"/>	<input type="checkbox"/>	SAFE WORK PROCEDURES	<input type="checkbox"/>	<input type="checkbox"/>
PROGRESSIVE DISCIPLINE POLICY	<input type="checkbox"/>	<input type="checkbox"/>	WORKPLACE INSPECTIONS	<input type="checkbox"/>	<input type="checkbox"/>
RESPONSIBILITIES	<input type="checkbox"/>	<input type="checkbox"/>	INVESTIGATION PROCESS	<input type="checkbox"/>	<input type="checkbox"/>
PPE STANDARDS	<input type="checkbox"/>	<input type="checkbox"/>	TRAINING POLICY & PROGRAM	<input type="checkbox"/>	<input type="checkbox"/>
ENVIRONMENTAL STANDARDS	<input type="checkbox"/>	<input type="checkbox"/>	COMMUNICATION PROCESSES	<input type="checkbox"/>	<input type="checkbox"/>
MODIFIED WORK PROGRAM	<input type="checkbox"/>	<input type="checkbox"/>			

5. TRAINING PROGRAM

5A. Do you have an orientation program for new hire employees? Yes No
 If Yes, include a course outline. Does it include any of the following:

	YES	NO		YES	NO
GENERAL RULES & REGULATIONS	<input type="checkbox"/>	<input type="checkbox"/>	CONFINED SPACE ENTRY	<input type="checkbox"/>	<input type="checkbox"/>
EMERGENCY REPORTING	<input type="checkbox"/>	<input type="checkbox"/>	TRENCHING & EXCAVATION	<input type="checkbox"/>	<input type="checkbox"/>
INJURY REPORTING	<input type="checkbox"/>	<input type="checkbox"/>	SIGNS & BARRICADES	<input type="checkbox"/>	<input type="checkbox"/>
LEGISLATION	<input type="checkbox"/>	<input type="checkbox"/>	DANGEROUS HOLES & OPENINGS	<input type="checkbox"/>	<input type="checkbox"/>
RIGHT TO REFUSE WORK	<input type="checkbox"/>	<input type="checkbox"/>	RIGGING & CRANES	<input type="checkbox"/>	<input type="checkbox"/>
PERSONAL PROTECTIVE EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	MOBILE VEHICLES	<input type="checkbox"/>	<input type="checkbox"/>
EMERGENCY PROCEDURES	<input type="checkbox"/>	<input type="checkbox"/>	PREVENTATIVE MAINTENANCE	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT SAFETY COMMITTEE	<input type="checkbox"/>	<input type="checkbox"/>	HAND & POWER TOOLS	<input type="checkbox"/>	<input type="checkbox"/>
HOUSEKEEPING	<input type="checkbox"/>	<input type="checkbox"/>	FIRE PREVENTION & PROTECTION	<input type="checkbox"/>	<input type="checkbox"/>
LADDERS & SCAFFOLDS	<input type="checkbox"/>	<input type="checkbox"/>	ELECTRICAL SAFETY	<input type="checkbox"/>	<input type="checkbox"/>
FALL ARREST STANDARDS	<input type="checkbox"/>	<input type="checkbox"/>	COMPRESSED GAS CYLINDERS	<input type="checkbox"/>	<input type="checkbox"/>
AERIAL WORK PLATFORMS	<input type="checkbox"/>	<input type="checkbox"/>	WEATHER EXTREMES	<input type="checkbox"/>	<input type="checkbox"/>



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5B. Do you have a program for training newly hired or promoted supervisors? Yes No

(If Yes, submit an outline for evaluation. Does it include instruction on the following:

	Yes	No		Yes	No
EMPLOYER RESPONSIBILITIES	<input type="checkbox"/>	<input type="checkbox"/>	SAFETY COMMUNICATION	<input type="checkbox"/>	<input type="checkbox"/>
EMPLOYEE RESPONSIBILITIES	<input type="checkbox"/>	<input type="checkbox"/>	FIRST AID/MEDICAL PROCEDURES	<input type="checkbox"/>	<input type="checkbox"/>
DUE DILIGENCE	<input type="checkbox"/>	<input type="checkbox"/>	NEW WORKER TRAINING	<input type="checkbox"/>	<input type="checkbox"/>
SAFETY LEADERSHIP	<input type="checkbox"/>	<input type="checkbox"/>	ENVIRONMENTAL REQUIREMENTS	<input type="checkbox"/>	<input type="checkbox"/>
WORK REFUSALS	<input type="checkbox"/>	<input type="checkbox"/>	HAZARD ASSESSMENT	<input type="checkbox"/>	<input type="checkbox"/>
INSPECTION PROCESSES	<input type="checkbox"/>	<input type="checkbox"/>	PRE-JOB SAFETY INSTRUCTION	<input type="checkbox"/>	<input type="checkbox"/>
EMERGENCY PROCEDURES	<input type="checkbox"/>	<input type="checkbox"/>	DRUG & ALCOHOL POLICY	<input type="checkbox"/>	<input type="checkbox"/>
INCIDENT INVESTIGATION	<input type="checkbox"/>	<input type="checkbox"/>	PROGRESSIVE DISCIPLINARY POLICY	<input type="checkbox"/>	<input type="checkbox"/>
SAFE WORK PROCEDURES	<input type="checkbox"/>	<input type="checkbox"/>	SAFE WORK PRACTICES	<input type="checkbox"/>	<input type="checkbox"/>
SAFETY MEETINGS	<input type="checkbox"/>	<input type="checkbox"/>	NOTIFICATION REQUIREMENTS	<input type="checkbox"/>	<input type="checkbox"/>

6. SAFETY ACTIVITIES

Do you conduct safety inspections? Yes No Weekly Monthly Quarterly

Describe your safety inspection process (include participation, documentation requirements, follow-up, report distribution).

Who follows up on inspection action items? _____

Do you hold site safety meetings for field employees? If Yes, how often?

Yes No Daily Weekly Biweekly

Do you hold site meetings where safety is addressed with management and field supervisors?

Yes No Weekly Biweekly Monthly

Is pre-job safety instruction provided before to each new task? Yes No

Is the process documented? Yes No

Who leads the discussion? _____

Do you have a hazard assessment process? Yes No

- Are hazard assessments documented? If yes, how are hazard assessments communicated and implemented on each project? Who is responsible for leading the hazard assessment process?

Does your company have policies and procedures for environmental protection, spill clean-up, reporting, waste disposal, and recycling as part of the Health & Safety Program?

Yes No

How does your company measure its H&S success?



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- Attach separate sheet to explain

7. SAFETY STEWARDSHIP

7A Are incident reports and report summaries sent to the following and how often?

	Yes	No	Monthly	Quarterly	Annually
Project/Site Manager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Managing Director	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety Director/Manager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
/Chief Executive Officer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7B How are incident records and summaries kept? How often are they reported internally?

	Yes	No	Monthly	Quarterly	Annually
Incidents totaled for the entire company	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incidents totaled by project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Subtotaled by superintendent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Subtotaled by foreman	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7C How are the costs of individual incidents kept? How often are they reported internally?

	Yes	No	Monthly	Quarterly	Annually
Costs totaled for the entire company	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Costs totaled by project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Subtotaled by superintendent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Subtotaled by foreman/general foreman	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7D Does your company track non-injury incidents?

	Yes	No	Monthly	Quarterly	Annually
Near Miss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Property Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8 PERSONNEL

List key health and safety officers planned for this project. Attach resume.

Name	Position/Title	Designation

Supply name, address and phone number of your company's corporate health and safety representative. Does this individual have responsibilities other than health, safety and environment?

Name	Address	Telephone Number

Other responsibilities:

9 REFERENCES

List the last three company's your form has worked for that could verify the quality and management commitment to your occupational Health & Safety program

Name and Company	Address	Phone Number



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T2.2-16: JOB-CREATION SCHEDULE

The Government has identified State Owned Enterprises sourcing activities as a key enabler to achieve the National Development Plan (NDP) objective of reducing unemployment from the current baseline of 28% to 6%.

In order to give effect to these job creation objectives, Tenderers are required to provide the following undertaking of new jobs that will be created (either by them or by their subcontractors) should they be awarded this tender.

Tenderers to note, that if successful, any deviations from the Job creation Schedule in the contract phase will be subject to acceptance by the *Project Manager* in terms of the Conditions of Contract. Please also note the applicable Z clauses in Contract Data by *Employer*.

- (a) Please indicate total number of new jobs that will be created over the term of the contract:

Total number and value of new jobs created	Total number of new jobs	Total rand value of new jobs created

- (b) Of the total number of new jobs created, please indicate the number and value of new jobs to be created for the following designated groups:

	Total number of new jobs	Total rand value of new jobs
Black men		
Black women		
Black Youth		
Black people living in rural or underdeveloped areas or townships		
Black People with Disabilities		

- (c) Of the total number of new jobs created, please indicate the number of skilled, semi-skilled and unskilled new jobs that will be created over the term of the contract:

	Total number of Skilled jobs	Total number of Semi-skilled jobs	Total number of Unskilled jobs
Black men			
Black women			
Black Youth			
Black people living in rural or underdeveloped areas or townships			
Black People with Disabilities			
Other			

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(d) Please indicate the number of new jobs to be created, broken down per quarter over the term of the contract.

Year 1	Q1	Q2	Q3	Q4
Total number of new jobs				
Number of new jobs for Black men				
Number of new jobs for black women				
Number of new jobs for black youth				
Number of new jobs for black people living in rural or underdeveloped areas or townships				
Number of new jobs for black People with Disabilities				
Number of new jobs for other categories				
Number of new skilled jobs				
Number of new semi-skilled jobs				
Number of new unskilled jobs				

Year 2	Q1	Q2	Q3	Q4
Total number of new jobs				
Number of new jobs for Black men				
Number of new jobs for black women				
Number of new jobs for black youth				
Number of new jobs for black people living in rural or underdeveloped areas or townships				
Number of new jobs for black People with Disabilities				
Number of new jobs for other categories				
Number of new skilled jobs				
Number of new semi-skilled jobs				
Number of new unskilled jobs				

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T2.2-17 : ANNEX G Compulsory Enterprise Questionnaire

The following particulars hereunder must be furnished.

In the case of a Joint Venture, separate enterprise questionnaires in respect of each partner/member must be completed and submitted.

Section 1: Name of enterprise: _____

Section 2: VAT registration number, if any: _____

Section 3: CIDB registration number, if any: _____

Section 4: CSD number: _____

Section 5: Particulars of sole proprietors and partners in partnerships

Name	Identity number	Personal income tax number

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 6: Particulars of companies and close corporations

Company registration number _____

Close corporation number _____

Tax reference number: _____

The attached SBD 6 must be completed for each tender and be attached as a requirement.

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The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed	Date
_____	_____
Name	Position
_____	_____
Enterprise name	

SBD 6.1

SPECIFIC GOALS POINTS CLAIM FORM

This preference form must form part of all bids invited. It contains general information and serves as a claim for preference points for specific goals Contribution. Transnet will award preference points to companies who provide valid proof of evidence of as per the table below.

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF SPECIFIC GOALS, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 The value of this bid is estimated to exceed R50 000 000 (all applicable taxes included) and therefore the 90/10 system preference point system shall be applicable. Despite the stipulated preference point system, Transnet shall use the lowest acceptable bid to determine the applicable preference point system in a situation where all received acceptable bids are received outside the stated preference point system.

1.3 Preference points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.
- (c) Any other specific goal determined in Transnet preferential procurement policy.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	90
<ul style="list-style-type: none"> • B-BBEE Status Level of Contributor 1 or 2 (2 points) • The promotion of supplier development through subcontracting or JV for a minimum of 	10



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<p>30% of the value of a contract to South African Companies which are:</p> <p>I. EMEs and/or QSEs who are 51% black- owned (7 points)</p> <ul style="list-style-type: none"> • Non-Compliant and/or B-BBEE Level 3-8 contributors (0 Points) 	
<p>Total points for Price and B-BBEE must not exceed</p>	<p>100</p>

- 1.5 Failure on the part of a bidder to submit proof of B-BBEE status level of contributor together with the bid will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **"all applicable taxes"** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- (b) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (c) **"B-BBEE status level of contributor"** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (d) **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the supply/provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (e) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (f) **"EME"** means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (g) **"functionality"** means the ability of a bidder to provide goods or services in accordance with specification as set out in the bid documents
- (h) **"Price"** includes all applicable taxes less all unconditional discounts.
- (i) **"Proof of B-BBEE Status Level of Contributor"**
 - i) the B-BBBEE status level certificate issued by an authorised body or person;

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- ii) a sworn affidavit as prescribed by the B-BBEE Codes of Good Practice; or
- iii) any other requirement prescribed in terms of the B-BBEE Act.
- (j) **“QSE”** means a Qualifying Small Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (k) **“rand value”** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties.

3. POINTS AWARDED FOR PRICE

3.1 THE 90/10 PREFERENCE POINT SYSTEMS

A maximum of 90 points is allocated for price on the following basis:

90/10

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

- P_s = Points scored for comparative price of bid under consideration
- P_t = Comparative price of bid under consideration
- P_{min} = Comparative price of lowest acceptable bid

In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, the following preference points must be awarded to a bidder who provides the relevant required evidence for claiming points.

Selected Specific Goal	Number of points allocated (90/10)
B-BBEE Status Level of Contributor 1 or 2	3.00
The promotion of supplier development through subcontracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: I. EMEs and/or QSEs who are 51% black-owned	7.00
Non-Compliant and/or B-BBEE Level 3-8 contributors	0

4. EVIDENCE REQUIRED FOR CLAIMING SPECIFIC GOALS

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4.1 In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, preference points must be awarded to a bidder for providing evidence in accordance with the table below:

Specific Goals	Acceptable Evidence
B-BBEE	B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline
The promotion of supplier development through sub-contracting or JV for a minimum of 30% of the value of a contract to South African Companies which are: <ul style="list-style-type: none"> I. 30% Black Women owned, 51% Black Youth and 51% Black people with disabilities II. Entities with a specified minimum B-BBEE level (1 and 2) III. EMEs and/or QSEs who are 51% black-owned 	Sub-contracting agreements and Declaration / Joint Venture Agreement and CIPC – B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate as per DTIC guideline (in case of a JV a consolidated score card will be accepted)
The promotion of enterprises located in a specific province/region/municipal area for work to be done or services to be rendered in that province/region/municipal area	CIPC – B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guidelines and Proof Registered address of entity

4.2 The table below indicates the required proof of B-BBEE status depending on the category of enterprises:

Enterprise	B-BBEE Certificate & Sworn Affidavit
Large	Certificate issued by SANAS accredited verification agency
QSE	Certificate issued by SANAS accredited verification agency Sworn Affidavit signed by the authorised QSE representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership (only black-owned QSEs - 51% to 100% Black owned) [Sworn affidavits must substantially comply with the format that can be obtained on the DTI's website at www.dti.gov.za/economic_empowerment/bee_codes.jsp .]

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EME¹	<p>Sworn Affidavit signed by the authorised EME representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership</p> <p>Certificate issued by CIPC (formerly CIPRO) confirming annual turnover and black ownership</p> <p>Certificate issued by SANAS accredited verification agency only if the EME is being measured on the QSE scorecard</p>
------------------------	--

- 4.3 A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level verification certificate for every separate bid.
- 4.4 Tertiary Institutions and Public Entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 4.5 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
- 4.6 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.
- 4.7 Bidders are to note that the rules pertaining to B-BBEE verification and other B-BBEE requirements may be changed from time to time by regulatory bodies such as National Treasury or the DTI. It is the Bidder’s responsibility to ensure that his/her bid complies fully with all B-BBEE requirements at the time of the submission of the bid.

5. BID DECLARATION

- 5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 6.1

- 6.1 B-BBEE Status Level of Contribution: . = (maximum of 10 points)

¹ In terms of the Implementation Guide: Preferential Procurement Regulations, 2017, Version 2, paragraph 11.11 provides that in the Transport Sector, EMEs can provide a letter from accounting officer or get verified and be issued with a B-BBEE certificate by SANAS accredited professional or agency as the Transport Sector Code has not been aligned to the generic Codes. EMEs in the Transport Sector are not allowed to provide a sworn affidavit as the generic codes are not applicable to them.

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- Close corporation
 - Company
 - (Pty) Limited
- [TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
 - Supplier
 - Professional Supplier
 - Other Suppliers, e.g. transporter, etc.
- [TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:.....

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If a bidder submitted false information regarding its B-BBEE status level of contributor,, which will affect or has affected the evaluation of a bid, or where a bidder has failed to declare any subcontracting arrangements or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) if the successful bidder subcontracted a portion of the bid to another person without disclosing it, Transnet reserves the right to

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- penalise the bidder up to 10 percent of the value of the contract;
- (e) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
- (f) forward the matter for criminal prosecution.

<p>WITNESSES</p> <p>1.</p> <p>2.</p>
--

<p>.....</p> <p>SIGNATURE(S) OF BIDDERS(S)</p> <p>DATE:</p>

BIDDER’S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder’s declaration

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest² in the enterprise, employed by the state? **YES/NO**
- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in

² the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

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the enterprise, in table below.

Full Name	Identity Number	Name of institution	State

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

3 DECLARATION

I, _____ the _____ undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.

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- However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature	Date
.....
Position	Name of bidder

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



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T2.2-18 NON-DISCLOSURE AGREEMENT

December 2023

**TRANSNET NATIONAL PORTS AUTHORITY
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DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE
CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER
OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.**

Note to tenderers: This Non-Disclosure Agreement is to be completed and signed by an authorised signatory:

THIS AGREEMENT is made effective as of day of 20..... by and between:

TRANSNET SOC LTD

(Registration No. 1990/000900/30), a company incorporated and existing under the laws of South Africa, having its principal place of business at Transnet Corporate Centre 138 Eloff Street, Braamfontein , Johannesburg 2000

and

.....

(Registration No.), a private company incorporated and existing under the laws of South Africa having its principal place of business at

.....
.....

WHEREAS

Transnet and the Company wish to exchange Information [as defined below] and it is envisaged that each party may from time to time receive Information relating to the other in respect thereof. In consideration of each party making available to the other such Information, the parties jointly agree that any dealings between them shall be subject to the terms and conditions of this Agreement which themselves will be subject to the parameters of the Tender Document.

IT IS HEREBY AGREED

1. INTERPRETATION

In this Agreement:

- 1.1 **Agents** mean directors, officers, employees, agents, professional advisers, contractors or sub-contractors, or any Group member;
- 1.2 **Bid or Bid Document** (hereinafter Tender) means Transnet’s Request for Information [**RFI**] Request for Proposal [**RFP**] or Request for Quotation [**RFQ**], as the case may be;
- 1.3 **Confidential Information** means any information or other data relating to one party [the **Disclosing Party**] and/or the business carried on or proposed or intended to be carried on by that party and which is made available for the purposes of the Bid to the other party [the **Receiving Party**] or its Agents by the Disclosing Party or its Agents or recorded in agreed minutes following oral disclosure and any other information otherwise made available by the Disclosing Party or its Agents to the Receiving Party or its Agents, whether before, on or after the date of this Agreement, and whether in writing or otherwise,

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including any information, analysis or specifications derived from, containing or reflecting such information but excluding information which:

- 1.3.1 is publicly available at the time of its disclosure or becomes publicly available [other than as a result of disclosure by the Receiving Party or any of its Agents contrary to the terms of this Agreement]; or
- 1.3.2 was lawfully in the possession of the Receiving Party or its Agents [as can be demonstrated by its written records or other reasonable evidence] free of any restriction as to its use or disclosure prior to its being so disclosed; or
- 1.3.3 following such disclosure, becomes available to the Receiving Party or its Agents [as can be demonstrated by its written records or other reasonable evidence] from a source other than the Disclosing Party or its Agents, which source is not bound by any duty of confidentiality owed, directly or indirectly, to the Disclosing Party in relation to such information;
- 1.4 **Group** means any subsidiary, any holding company and any subsidiary of any holding company of either party; and
- 1.5 **Information** means all information in whatever form including, without limitation, any information relating to systems, operations, plans, intentions, market opportunities, know-how, trade secrets and business affairs whether in writing, conveyed orally or by machine-readable medium.

2. CONFIDENTIAL INFORMATION

- 2.1 All Confidential Information given by one party to this Agreement [the **Disclosing Party**] to the other party [the **Receiving Party**] will be treated by the Receiving Party as secret and confidential and will not, without the Disclosing Party's written consent, directly or indirectly communicate or disclose [whether in writing or orally or in any other manner] Confidential Information to any other person other than in accordance with the terms of this Agreement.
- 2.2 The Receiving Party will only use the Confidential Information for the sole purpose of technical and commercial discussions between the parties in relation to the Tender or for the subsequent performance of any contract between the parties in relation to the Tender.
- 2.3 Notwithstanding clause 2.1 above, the Receiving Party may disclose Confidential Information:
 - 2.3.1 to those of its Agents who strictly need to know the Confidential Information for the sole purpose set out in clause 2.2 above, provided that the Receiving Party shall ensure that such Agents are made aware prior to the disclosure of any part of the Confidential Information that the same is confidential and that they owe a duty of confidence to the Disclosing Party. The Receiving Party shall at all times remain liable for any actions of such Agents that would constitute a breach of this Agreement; or
 - 2.3.2 to the extent required by law or the rules of any applicable regulatory authority, subject to clause 2.4 below.
- 2.4 In the event that the Receiving Party is required to disclose any Confidential Information in accordance with clause 2.3.2 above, it shall promptly notify the Disclosing Party and cooperate with the Disclosing

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Party regarding the form, nature, content and purpose of such disclosure or any action which the Disclosing Party may reasonably take to challenge the validity of such requirement.

2.5 In the event that any Confidential Information shall be copied, disclosed or used otherwise than as permitted under this Agreement then, upon becoming aware of the same, without prejudice to any rights or remedies of the Disclosing Party, the Receiving Party shall as soon as practicable notify the Disclosing Party of such event and if requested take such steps [including the institution of legal proceedings] as shall be necessary to remedy [if capable of remedy] the default and/or to prevent further unauthorised copying, disclosure or use.

2.6 All Confidential Information shall remain the property of the Disclosing Party and its disclosure shall not confer on the Receiving Party any rights, including intellectual property rights over the Confidential Information whatsoever, beyond those contained in this Agreement.

3. RECORDS AND RETURN OF INFORMATION

3.1 The Receiving Party agrees to ensure proper and secure storage of all Information and any copies thereof.

3.2 The Receiving Party shall keep a written record, to be supplied to the Disclosing Party upon request, of the Confidential Information provided and any copies made thereof and, so far as is reasonably practicable, of the location of such Confidential Information and any copies thereof.

3.3 The Company shall, within 7 [seven] days of receipt of a written demand from Transnet:

3.3.1 return all written Confidential Information [including all copies]; and

3.3.2 expunge or destroy any Confidential Information from any computer, word processor or other device whatsoever into which it was copied, read or programmed by the Company or on its behalf.

3.4 The Company shall on request supply a certificate signed by a director as to its full compliance with the requirements of clause 3.3.2 above.

4. ANNOUNCEMENTS

4.1 Neither party will make or permit to be made any announcement or disclosure of its prospective interest in the Tender without the prior written consent of the other party.

4.2 Neither party shall make use of the other party's name or any information acquired through its dealings with the other party for publicity or marketing purposes without the prior written consent of the other party.

5. DURATION

The obligations of each party and its Agents under this Agreement shall survive the termination of any discussions or negotiations between the parties regarding the Tender and continue thereafter for a period of 5 [five] years.

6. PRINCIPAL

Each party confirms that it is acting as principal and not as nominee, agent or broker for any other person and that it will be responsible for any costs incurred by it or its advisers in considering or pursuing the Tender and in complying with the terms of this Agreement.

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7. ADEQUACY OF DAMAGES

Nothing contained in this Agreement shall be construed as prohibiting the Disclosing Party from pursuing any other remedies available to it, either at law or in equity, for any such threatened or actual breach of this Agreement, including specific performance, recovery of damages or otherwise.

8. PRIVACY AND DATA PROTECTION

8.1 The Receiving Party undertakes to comply with South Africa’s general privacy protection in terms Section 14 of the Bill of Rights in connection with this Tender and shall procure that its personnel shall observe the provisions of such Act [as applicable] or any amendments and re-enactments thereof and any regulations made pursuant thereto.

8.2 The Receiving Party warrants that it and its Agents have the appropriate technical and organisational measures in place against unauthorised or unlawful processing of data relating to the Tender and against accidental loss or destruction of, or damage to such data held or processed by them.

9. GENERAL

9.1 Neither party may assign the benefit of this Agreement, or any interest hereunder, except with the prior written consent of the other, save that Transnet may assign this Agreement at any time to any member of the Transnet Group.

9.2 No failure or delay in exercising any right, power or privilege under this Agreement will operate as a waiver of it, nor will any single or partial exercise of it preclude any further exercise or the exercise of any right, power or privilege under this Agreement or otherwise.

9.3 The provisions of this Agreement shall be severable in the event that any of its provisions are held by a court of competent jurisdiction or other applicable authority to be invalid, void or otherwise unenforceable, and the remaining provisions shall remain enforceable to the fullest extent permitted by law.

9.4 This Agreement may only be modified by a written agreement duly signed by persons authorised on behalf of each party.

9.5 Nothing in this Agreement shall constitute the creation of a partnership, joint venture or agency between the parties.

9.6 This Agreement will be governed by and construed in accordance with South African law and the parties irrevocably submit to the exclusive jurisdiction of the South African courts.

Signed	_____	Date	_____
Name	_____	Position	_____
Tenderer	_____		

T2.2-19: RFP DECLARATION FORM

NAME OF COMPANY: _____

We _____ do hereby certify that:

1. Transnet has supplied and we have received appropriate tender offers to any/all questions (as applicable) which were submitted by ourselves for tender clarification purposes;
2. we have received all information we deemed necessary for the completion of this Tender;
3. at no stage have we received additional information relating to the subject matter of this tender from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the tender documents;
4. we are satisfied, insofar as our company is concerned, that the processes and procedures adopted by Transnet in issuing this tender and the requirements requested from tenderers in responding to this tender have been conducted in a fair and transparent manner; and
5. furthermore, we acknowledge that a direct relationship exists between a family member and/or an owner / member / director / partner / shareholder (unlisted companies) of our company and an employee or board member of the Transnet Group as indicated below:

[Respondent to indicate if this section is not applicable]

FULL NAME OF OWNER/MEMBER/DIRECTOR/

PARTNER/SHAREHOLDER:

ADDRESS:

Indicate nature of relationship with Transnet:

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[Failure to furnish complete and accurate information in this regard may lead to the disqualification of your response and may preclude a Respondent from doing future business with Transnet]

We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet (other than any existing and appropriate business relationship with Transnet) which could unfairly advantage our company in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.

6. We accept that any dispute pertaining to this tender will be resolved through the Ombudsman process and will be subject to the Terms of Reference of the Ombudsman. The Ombudsman process must first be exhausted before judicial review of a decision is sought. (Refer "Important Notice to respondents" below).
7. We further accept that Transnet reserves the right to reverse a tender award or decision based on the recommendations of the Ombudsman without having to follow a formal court process to have such award or decision set aside.
8. We have acquainted ourselves and agree with the content of T2.2-22 "Supplier Provider Integrity Pact".

For and on behalf of duly authorised thereto
Name:
Signature:
Date:

IMPORTANT NOTICE TO TENDERERS

- Transnet has appointed a Procurement Ombudsman to investigate any material complaint in respect of tenders exceeding R5,000,000.00 (five million S.A. Rand) in value. Should a Tenderer have any material concern regarding a tender process which meets this value threshold, a complaint may be lodged with Transnet's Procurement Ombudsman for further investigation.

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- It is incumbent on the Tenderer to familiarise himself/herself with the Terms of Reference for the Transnet Procurement Ombudsman, details of which are available for review at Transnet's website www.transnet.net.
- An official complaint form may be downloaded from this website and submitted, together with any supporting documentation, within the prescribed period, to procurement.ombud@transnet.net
- For transactions below the R5,000,000.00 (five million S.A. Rand) threshold, a complaint may be lodged with the Chief Procurement Officer of the relevant Transnet Operating Division.
- All Tenderers should note that a complaint must be made in good faith. If a complaint is made in bad faith, Transnet reserves the right to place such a tenderer on its List of Excluded Bidders.

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T2.2-20: REQUEST FOR PROPOSAL – BREACH OF LAW

NAME OF COMPANY: _____

I / We _____ do hereby certify that ***I/we have/have not been*** found guilty during the preceding 5 (five) years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or other administrative body. The type of breach that the Tenderer is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences.

Where found guilty of such a serious breach, please disclose:

NATURE OF BREACH:

DATE OF BREACH:

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Tenderer from the tendering process, should that person or company have been found guilty of a serious breach of law, tribunal or regulatory obligation.

Signed on this _____ day of _____ 20____

SIGNATURE OF TENDER

T2.2-21: Certificate of Acquaintance with Tender Documents

NAME OF TENDERING ENTITY:

1. By signing this certificate I/we acknowledge that I/we have made myself/ourselves thoroughly familiar with, and agree with all the conditions governing this RFP. This includes those terms and conditions of the Contract, the Supplier Integrity Pact, Non-Disclosure Agreement etc. contained in any printed form stated to form part of the documents thereof, but not limited to those listed in this clause.
2. I/we furthermore agree that Transnet SOC Ltd shall recognise no claim from me/us for relief based on an allegation that I/we overlooked any tender/contract condition or failed to take it into account for the purpose of calculating my/our offered prices or otherwise.
3. I/we understand that the accompanying Tender will be disqualified if this Certificate is found not to be true and complete in every respect.
4. For the purposes of this Certificate and the accompanying Tender, I/we understand that the word "competitor" shall include any individual or organisation, other than the Tenderer, whether or not affiliated with the Tenderer, who:
 - a) has been requested to submit a Tender in response to this Tender invitation;
 - b) could potentially submit a Tender in response to this Tender invitation, based on their qualifications, abilities or experience; and
 - c) provides the same Services as the Tenderer and/or is in the same line of business as the Tenderer
5. The Tenderer has arrived at the accompanying Tender independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium will not be construed as collusive Tendering.
6. In particular, without limiting the generality of paragraph 5 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

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- a) prices;
 - b) geographical area where Services will be rendered [market allocation]
 - c) methods, factors or formulas used to calculate prices;
 - d) the intention or decision to submit or not to submit, a Tender;
 - e) the submission of a tender which does not meet the specifications and conditions of the tender; or
 - f) Tendering with the intention not winning the tender.
7. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the Services to which this tender relates.
8. The terms of the accompanying tender have not been, and will not be, disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening or of the awarding of the contract.
9. I/We am/are aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to tenders and contracts, tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and/or may be reported to the National Prosecuting Authority [NPA] for criminal investigation. In addition, Tenderers that submit suspicious tenders may be restricted from conducting business with the public sector for a period not exceeding 10 [ten] years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

Signed on this _____ day of _____ 20____

SIGNATURE OF TENDERER

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T2.2-22: Supplier Integrity Pact

Important Note: All potential tenderers must read this document and certify in the RFP Declaration Form that that have acquainted themselves with and agree with the content.

The contract with the successful tenderer will automatically incorporate this Integrity Pact and shall be deemed as part of the final concluded contract.

INTEGRITY PACT

Between

TRANSNET SOC LTD

Registration Number: 1990/000900/30

("Transnet")

and

The Contractor (hereinafter referred to as the "Tenderer/Service Providers/Contractor")

PREAMBLE

Transnet values full compliance with all relevant laws and regulations, ethical standards and the principles of economical use of resources, fairness and transparency in its relations with its Tenderers/Service Providers/Contractors.

In order to achieve these goals, Transnet and the Tenderer/Service Provider/Contractor hereby enter into this agreement hereinafter referred to as the "Integrity Pact" which will form part of the Tenderer's/Service Provider's/Contractor's application for registration with Transnet as a vendor.

The general purpose of this Integrity Pact is to agree on avoiding all forms of dishonesty, fraud and corruption by following a system that is fair, transparent and free from any undue influence prior to, during and subsequent to the currency of any procurement and/or reverse logistics event and any further contract to be entered into between the Parties, relating to such event.

All Tenderers/Service Providers/Contractor's will be required to sign and comply with undertakings contained in this Integrity Pact, should they want to be registered as a Transnet vendor.

1 OBJECTIVES

- 1.1 Transnet and the Tenderer/Service Provider/Contractor agree to enter into this Integrity Pact, to avoid all forms of dishonesty, fraud and corruption including practices that are anti-competitive in nature, negotiations made in bad faith and under-pricing by following a system that is fair, transparent and free from any influence/unprejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:
 - a) Enable Transnet to obtain the desired contract at a reasonable and competitive price in conformity to the defined specifications of the works, goods and services; and
 - b) Enable Tenderers/Service Providers/Contractors to abstain from bribing or participating in any corrupt practice in order to secure the contract.

2 COMMITMENTS OF TRANSNET

Transnet commits to take all measures necessary to prevent dishonesty, fraud and corruption and to observe the following principles:

- 2.1 Transnet hereby undertakes that no employee of Transnet connected directly or indirectly with the sourcing event and ensuing contract, will demand, take a promise for or accept directly or through intermediaries any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Tenderer, either for themselves or for any person, organisation or third

party related to the contract in exchange for an advantage in the tendering process, Tender evaluation, contracting or implementation process related to any contract.

- 2.2 Transnet will, during the registration and tendering process treat all Tenderers/ Service Providers/Contractor with equity, transparency and fairness. Transnet will in particular, before and during the registration process, provide to all Tenderers/ Service Providers/Contractors the same information and will not provide to any Tenderers/Service Providers/Contractors confidential/additional information through which the Tenderers/Service Providers/Contractors could obtain an advantage in relation to any tendering process.
- 2.3 Transnet further confirms that its employees will not favour any prospective Tenderers/Service Providers/Contractors in any form that could afford an undue advantage to a particular Tenderer during the tendering stage and will further treat all Tenderers/Service Providers/Contractors participating in the tendering process in a fair manner.
- 2.4 Transnet will exclude from the tender process such employees who have any personal interest in the Tenderers/Service Providers/Contractors participating in the tendering process.

3 OBLIGATIONS OF THE TENDERER / SERVICE PROVIDER

- 3.1 Transnet has a '**Zero Gifts**' Policy. No employee is allowed to accept gifts, favours or benefits.
 - a) Transnet officials and employees **shall not** solicit, give or accept, or from agreeing to solicit, give, accept or receive directly or indirectly, any gift, gratuity, favour, entertainment, loan, or anything of monetary value, from any person or juridical entities in the course of official duties or in connection with any operation being managed by, or any transaction which may be affected by the functions of their office.
 - b) Transnet officials and employees **shall not** solicit or accept gifts of any kind, from vendors, suppliers, customers, potential employees, potential vendors, and suppliers, or any other individual or organisation irrespective of the value.
 - c) Under **no circumstances** should gifts, business courtesies or hospitality packages be accepted from or given to prospective suppliers participating in a tender process at the respective employee's Operating Division, regardless of retail value.
 - d) Gratuities, bribes or kickbacks of any kind must never be solicited, accepted or offered, either directly or indirectly. This includes money, loans, equity, special privileges, personal favours, benefit or services. Such favours will be considered to constitute corruption.

-
- 3.2 The Tenderer/Service Provider/Contractor commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its Tender or during any ensuing contract stage in order to secure the contract or in furtherance to secure it and in particular the Tenderer/Service Provider/Contractor commits to the following:
- a) The Tenderer/Service Provider/Contractor will not, directly or through any other person or firm, offer, promise or give to Transnet or to any of Transnet's employees involved in the tendering process or to any third person any material or other benefit or payment, in order to obtain in exchange an advantage during the tendering process; and
 - b) The Tenderer/Service Provider/Contractor will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any employee of Transnet, connected directly or indirectly with the tendering process, or to any person, organisation or third party related to the contract in exchange for any advantage in the tendering, evaluation, contracting and implementation of the contract.
- 3.3 The Tenderer/Service Provider/Contractor will not collude with other parties interested in the contract to preclude a competitive Tender price, impair the transparency, fairness and progress of the tendering process, Tender evaluation, contracting and implementation of the contract. The Tenderer / Service Provider further commits itself to delivering against all agreed upon conditions as stipulated within the contract.
- 3.4 The Tenderer/Service Provider/Contractor will not enter into any illegal or dishonest agreement or understanding, whether formal or informal with other Tenderers/Service Providers/Contractors. This applies in particular to certifications, submissions or non-submission of documents or actions that are restrictive or to introduce cartels into the tendering process.
- 3.5 The Tenderer/Service Provider/Contractor will not commit any criminal offence under the relevant anti-corruption laws of South Africa or any other country. Furthermore, the Tenderer/Service Provider/Contractor will not use for illegitimate purposes or for restrictive purposes or personal gain, or pass on to others, any information provided by Transnet as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 3.6 A Tenderer/Service Provider/Contractor of foreign origin shall disclose the name and address of its agents or representatives in South Africa, if any, involved directly or indirectly in the registration or tendering process. Similarly, the Tenderer / Service Provider / Contractor of South African nationality shall furnish

the name and address of the foreign principals, if any, involved directly or indirectly in the registration or tendering process.

- 3.7 The Tenderer/Service Provider/Contractor will not misrepresent facts or furnish false or forged documents or information in order to influence the tendering process to the advantage of the Tenderer/Service Provider/Contractor or detriment of Transnet or other competitors.
- 3.8 Transnet may require the Tenderer/Service Provider/Contractor to furnish Transnet with a copy of its code of conduct. Such code of conduct must address the compliance programme for the implementation of the code of conduct and reject the use of bribes and other dishonest and unethical conduct.
- 3.9 The Tenderer/Service Provider/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 3.10 The Tenderer/Service Provider/Contractor confirms that they will uphold the ten principles of the United Nations Global Compact (UNGC) in the fields of Human Rights, Labour, Anti-Corruption and the Environment when undertaking business with Transnet as follows:
 - a) Human Rights
 - Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights; and
 - Principle 2: make sure that they are not complicit in human rights abuses.
 - b) Labour
 - Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
 - Principle 4: the elimination of all forms of forced and compulsory labour;
 - Principle 5: the effective abolition of child labour; and
 - Principle 6: the elimination of discrimination in respect of employment and occupation.
 - c) Environment
 - Principle 7: Businesses should support a precautionary approach to environmental challenges;

- Principle 8: undertake initiatives to promote greater environmental responsibility; and
 - Principle 9: encourage the development and diffusion of environmentally friendly technologies.
- d) Anti-Corruption
- Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery.

4 INDEPENDENT TENDERING

- 4.1 For the purposes of that Certificate in relation to any submitted Tender, the Tenderer declares to fully understand that the word "competitor" shall include any individual or organisation, other than the Tenderer, whether or not affiliated with the Tenderer, who:
- a) has been requested to submit a Tender in response to this Tender invitation;
 - b) could potentially submit a Tender in response to this Tender invitation, based on their qualifications, abilities or experience; and
 - c) provides the same Goods and Services as the Tenderer and/or is in the same line of business as the Tenderer.
- 4.2 The Tenderer has arrived at his submitted Tender independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium will not be construed as collusive tendering.
- 4.3 In particular, without limiting the generality of paragraph 5 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- a) prices;
 - b) geographical area where Goods or Services will be rendered [market allocation];
 - c) methods, factors or formulas used to calculate prices;
 - d) the intention or decision to submit or not to submit, a Tender;
 - e) the submission of a Tender which does not meet the specifications and conditions of the RFP; or
 - f) tendering with the intention of not winning the Tender.
- 4.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications

and conditions or delivery particulars of the Goods or Services to which his/her tender relates.

- 4.5 The terms of the Tender as submitted have not been, and will not be, disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official Tender opening or of the awarding of the contract.
- 4.6 Tenderers are aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to Tenders and contracts, Tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and/or may be reported to the National Prosecuting Authority [**NPA**] for criminal investigation and/or may be restricted from conducting business with the public sector for a period not exceeding 10 [ten] years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.
- 4.7 Should the Tenderer find any terms or conditions stipulated in any of the relevant documents quoted in the Tender unacceptable, it should indicate which conditions are unacceptable and offer alternatives by written submission on its company letterhead, attached to its submitted Tender. Any such submission shall be subject to review by Transnet's Legal Counsel who shall determine whether the proposed alternative(s) are acceptable or otherwise, as the case may be.

5 DISQUALIFICATION FROM TENDERING PROCESS

- 5.1 If the Tenderer/Service Provider/Contractor has committed a transgression through a violation of section 3 of this Integrity Pact or in any other form such as to put its reliability or credibility as a Tenderer/Service Provider/Contractor into question, Transnet may reject the Tenderer's / Service Provider's / Contractor's application from the registration or tendering process and remove the Tenderer/Service Provider/Contractor from its database, if already registered.
- 5.2 If the Tenderer/Service Provider/Contractor has committed a transgression through a violation of section 3, or any material violation, such as to put its reliability or credibility into question. Transnet may after following due procedures and at its own discretion also exclude the Tenderer/Service Provider /Contractor from future tendering processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, which will include amongst others the number of transgressions, the position of the transgressors within the company hierarchy of the Tenderer/Service Provider/Contractor and the amount of the damage. The exclusion will be imposed for up to a maximum of 10 (ten)

years. However, Transnet reserves the right to impose a longer period of exclusion, depending on the gravity of the misconduct.

- 5.3 If the Tenderer/Service Provider/Contractor can prove that it has restored the damage caused by it and has installed a suitable corruption prevention system or taken other remedial measures as the circumstances of the case may require, Transnet may at its own discretion revoke the exclusion or suspend the imposed penalty.

6 TRANSNET'S LIST OF EXCLUDED TENDERERS (BLACKLIST)

- 6.1 The process of restriction is used to exclude a company/person from conducting future business with Transnet and other organs of state for a specified period. No Tender shall be awarded to a Tenderer whose name (or any of its members, directors, partners or trustees) appear on the Register of Tender Defaulters kept by National Treasury, or who have been placed on National Treasury's List of Restricted Suppliers. Transnet reserves the right to withdraw an award, or cancel a contract concluded with a Tenderer should it be established, at any time, that a tenderer has been restricted with National Treasury by another government institution.
- 6.2 All the stipulations on Transnet's restriction process as laid down in Transnet's Supply Chain Policy and Procurement Procedures Manual (CPM included) are included herein by way of reference. Below follows a condensed summary of this restriction procedure.
- 6.3 On completion of the restriction procedure, Transnet will submit the restricted entity's details (including the identity number of the individuals and registration number of the entity) to National Treasury for placement on National Treasury's Database of Restricted Suppliers for the specified period of exclusion. National Treasury will make the final decision on whether to restrict an entity from doing business with any organ of state for a period not exceeding 10 years and place the entity concerned on the Database of Restricted Suppliers published on its official website.
- 6.4 The decision to restrict is based on one of the grounds for restriction. The standard of proof to commence the restriction process is whether a "*prima facie*" (i.e. on the face of it) case has been established.
- 6.5 Depending on the seriousness of the misconduct and the strategic importance of the Goods/Services, in addition to restricting a company/person from future business, Transnet may decide to terminate some or all existing contracts with the company/person as well.

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- 6.6 A Service Provider or Contractor to Transnet may not subcontract any portion of the contract to a blacklisted company.
- 6.7 Grounds for blacklisting include: If any person/Enterprise which has submitted a Tender, concluded a contract, or, in the capacity of agent or subcontractor, has been associated with such Tender or contract:
- a) Has, in bad faith, withdrawn such Tender after the advertised closing date and time for the receipt of Tenders;
 - b) has, after being notified of the acceptance of his Tender, failed or refused to sign a contract when called upon to do so in terms of any condition forming part of the Tender documents;
 - c) has carried out any contract resulting from such Tender in an unsatisfactory manner or has breached any condition of the contract;
 - d) has offered, promised or given a bribe in relation to the obtaining or execution of the contract;
 - e) has acted in a fraudulent or improper manner or in bad faith towards Transnet or any Government Department or towards any public body, Enterprise or person;
 - f) has made any incorrect statement in a certificate or other communication with regard to the Local Content of his Goods or his B-BBEE status and is unable to prove to the satisfaction of Transnet that:
 - (i) he made the statement in good faith honestly believing it to be correct; and
 - (ii) before making such statement, he took all reasonable steps to satisfy himself of its correctness;
 - g) caused Transnet damage, or to incur costs in order to meet the contractor's requirements and which could not be recovered from the contractor;
 - h) has litigated against Transnet in bad faith.
- 6.8 Grounds for blacklisting include a company/person recorded as being a company or person prohibited from doing business with the public sector on National Treasury's database of Restricted Service Providers or Register of Tender Defaulters.
- 6.9 Companies associated with the person/s guilty of misconduct (i.e. entities owned, controlled or managed by such persons), any companies subsequently

formed by the person(s) guilty of the misconduct and/or an existing company where such person(s) acquires a controlling stake may be considered for blacklisting. The decision to extend the blacklist to associated companies will be at the sole discretion of Transnet.

7 PREVIOUS TRANSGRESSIONS

- 7.1 The Tenderer/Service Provider/Contractor hereby declares that no previous transgressions resulting in a serious breach of any law, including but not limited to, corruption, fraud, theft, extortion and contraventions of the Competition Act 89 of 1998, which occurred in the last 5 (five) years with any other public sector undertaking, government department or private sector company that could justify its exclusion from its registration on the Tenderer's/Service Provider's/Contractor's database or any tendering process.
- 7.2 If it is found to be that the Tenderer/Service Provider/Contractor made an incorrect statement on this subject, the Tenderer/Service Provider/Contractor can be rejected from the registration process or removed from the Tenderer/Service Provider/Contractor database, if already registered, for such reason (refer to the Breach of Law Returnable Form contained in the document.)

8 SANCTIONS FOR VIOLATIONS

- 8.1 Transnet shall also take all or any one of the following actions, wherever required to:
- a) Immediately exclude the Tenderer/Service Provider/Contractor from the tendering process or call off the pre-contract negotiations without giving any compensation the Tenderer/Service Provider/Contractor. However, the proceedings with the other Tenderer/Service Provider/Contractor may continue;
 - b) Immediately cancel the contract, if already awarded or signed, without giving any compensation to the Tenderer/Service Provider/Contractor;
 - c) Recover all sums already paid by Transnet;
 - d) Encash the advance bank guarantee and performance bond or warranty bond, if furnished by the Tenderer/Service Provider/Contractor, in order to recover the payments, already made by Transnet, along with interest;
 - e) Cancel all or any other contracts with the Tenderer/Service Provider/Contractor; and
 - f) Exclude the Tenderer/Service Provider/Contractor from entering into any Tender with Transnet in future.

9 CONFLICTS OF INTEREST

- 9.1 A conflict of interest includes, inter alia, a situation in which:

- a) A Transnet employee has a personal financial interest in a tendering / supplying entity; and
- b) A Transnet employee has private interests or personal considerations or has an affiliation or a relationship which affects, or may affect, or may be perceived to affect his / her judgment in action in the best interest of Transnet, or could affect the employee's motivations for acting in a particular manner, or which could result in, or be perceived as favouritism or nepotism.

9.2 A Transnet employee uses his / her position, or privileges or information obtained while acting in the capacity as an employee for:

- a) Private gain or advancement; or
- b) The expectation of private gain, or advancement, or any other advantage accruing to the employee must be declared in a prescribed form.

Thus, conflicts of interest of any Tender committee member or any person involved in the sourcing process must be declared in a prescribed form.

9.3 If a Tenderer/Service Provider/Contractor has or becomes aware of a conflict of interest i.e. a family, business and / or social relationship between its owner(s)/ member(s)/director(s)/partner(s)/shareholder(s) and a Transnet employee/ member of Transnet's Board of Directors in respect of a Tender which will be considered for the Tender process, the Tenderer/Service Provider/ Contractor:

- a) must disclose the interest and its general nature, in the Request for Proposal ("RFX") declaration form; or
- b) must notify Transnet immediately in writing once the circumstances has arisen.

9.4 The Tenderer/Service Provider/Contractor shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any committee member or any person involved in the sourcing process, where this is done, Transnet shall be entitled forthwith to rescind the contract and all other contracts with the Tenderer/Service Provider/Contractor.

10 DISPUTE RESOLUTION

10.1 Transnet recognises that trust and good faith are pivotal to its relationship with its Tenderer / Service Provider / Contractor. When a dispute arises between Transnet and its Tenderer / Service Provider / Contractor, the parties should use their best endeavours to resolve the dispute in an amicable manner, whenever possible. Litigation in bad faith negates the principles of trust and good faith on which commercial relationships are based. Accordingly, following a blacklisting process as mentioned in paragraph 6 above, Transnet will not do business with a company that litigates against it in bad faith or is involved in any action that reflects bad faith on its part. Litigation in bad faith includes, but is not limited to the following instances:

- a) **Vexatious proceedings:** these are frivolous proceedings which have been instituted without proper grounds;
- b) **Perjury:** where a Tenderer / Service Provider / Contractor make a false statement either in giving evidence or on an affidavit;
- c) **Scurrilous allegations:** where a Tenderer / Service Provider / Contractor makes allegations regarding a senior Transnet employee which are without proper foundation, scandalous, abusive or defamatory; and
- d) **Abuse of court process:** when a Tenderer / Service Provider / Contractor abuses the court process in order to gain a competitive advantage during a Tender process.

11 GENERAL

- 11.1 This Integrity Pact is governed by and interpreted in accordance with the laws of the Republic of South Africa.
- 11.2 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the law relating to any civil or criminal proceedings.
- 11.3 The validity of this Integrity Pact shall cover all the tendering processes and will be valid for an indefinite period unless cancelled by either Party.
- 11.4 Should one or several provisions of this Integrity Pact turn out to be invalid the remainder of this Integrity Pact remains valid.
- 11.5 Should a Tenderer/Service Provider/Contractor be confronted with dishonest, fraudulent or corruptive behaviour of one or more Transnet employees, Transnet expects its Tenderer/Service Provider/Contractor to report this behaviour directly to a senior Transnet official/employee or alternatively by using Transnet's "Tip-Off Anonymous" hotline number 0800 003 056, whereby your confidentiality is guaranteed.

The Parties hereby declare that each of them has read and understood the clauses of this Integrity Pact and shall abide by it. To the best of the Parties' knowledge and belief, the information provided in this Integrity Pact is true and correct.

I duly authorised by the tendering entity, hereby certify that the tendering entity are **fully acquainted** with the contents of the Integrity Pact and further **agree to abide by it** in full.

Signature

Date

T2.2-23 : Supplier Code of Conduct

Transnet SOC Limited aims to achieve the best value for money when buying or selling goods and obtaining services. This however must be done in an open and fair manner that supports and drives a competitive economy. Underpinning our process are several acts and policies that any supplier dealing with Transnet must understand and support. These are:

- The Transnet Procurement Policy – A guide for Tenderers.
- Section 217 of the Constitution - the five pillars of Public PSCM (Procurement and Supply Chain Management): fair, equitable, transparent, competitive and cost effective;
- The Public Finance Management Act (PFMA);
- The Broad Based Black Economic Empowerment Act (BBBEE)
- The Prevention and Combating of Corrupt Activities Act (PRECCA); and
- The Construction Industry Development Board Act (CIDB Act).

This code of conduct has been included in this contract to formally appraise Transnet Suppliers of Transnet's expectations regarding behaviour and conduct of its Suppliers.

Prohibition of Bribes, Kickbacks, Unlawful Payments, and Other Corrupt Practices

Transnet is in the process of transforming itself into a self-sustaining State Owned Enterprise, actively competing in the logistics industry. Our aim is to become a world class, profitable, logistics organisation. As such, our transformation is focused on adopting a performance culture and to adopt behaviours that will enable this transformation.

1. Transnet SOC Limited will not participate in corrupt practices. Therefore, it expects its suppliers to act in a similar manner.

- Transnet and its employees will follow the laws of this country and keep accurate business records that reflect actual transactions with, and payments to, our suppliers.
- Employees must not accept or request money or anything of value, directly or indirectly, from suppliers.
- Employees may not receive anything that is calculated to:

**TRANSNET NATIONAL PORTS AUTHORITY****TENDER NUMBER: TNPA/2023/08/0004/37853/RFP****DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.**

- Illegally influence their judgement or conduct or to ensure the desired outcome of a sourcing activity;
- Win or retain business or to influence any act or decision of any person involved in sourcing decisions; or
- Gain an improper advantage.
- There may be times when a supplier is confronted with fraudulent or corrupt behaviour of Transnet employees. We expect our Suppliers to use our "Tip-offs Anonymous" Hot line to report these acts. (0800 003 056).

2. *Transnet SOC Limited is firmly committed to the ideas of free and competitive enterprise.*

- Suppliers are expected to comply with all applicable laws and regulations regarding fair competition and antitrust practices.
- Transnet does not engage with non-value adding agents or representatives solely for the purpose of increasing BBBEE spend (fronting).

3. *Transnet's relationship with suppliers requires us to clearly define requirements, to exchange information and share mutual benefits.*

- Generally, suppliers have their own business standards and regulations. Although Transnet cannot control the actions of our suppliers, we will not tolerate any illegal activities. These include, but are not limited to:
 - Misrepresentation of their product (origin of manufacture, specifications, intellectual property rights, etc);
 - Collusion;
 - Failure to disclose accurate information required during the sourcing activity (ownership, financial situation, BBBEE status, etc.);
 - Corrupt activities listed above; and
 - Harassment, intimidation or other aggressive actions towards Transnet employees.

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- Suppliers must be evaluated and approved before any materials, components, products or services are purchased from them. Rigorous due diligence is conducted and the supplier is expected to participate in an honest and straight forward manner.

Suppliers must record and report facts accurately, honestly and objectively. Financial records must be accurate in all material respects. ***Conflicts of Interest***

A conflict of interest arises when personal interests or activities influence (or appear to influence) the ability to act in the best interests of Transnet SOC Limited.

- Doing business with family members.
- Having a financial interest in another company in our industry

Where possible, contracts will be negotiated to include the above in the terms of such contracts. To the extent such terms are not included in contractual obligations and any of the above code is breached, then Transnet reserves its right to review doing business with these suppliers.

I, _____ of _____
(insert name of Director or as per Authority Resolution from Board of Directors) *(insert name of Company)*

hereby acknowledge having read, understood and agree to the terms and conditions set out in the "Transnet Supplier Code of Conduct."

Signed this on day _____ at _____

Signature

T2.2-24 Agreement in terms of Protection of Personal Information Act, 4 of 2013 (“POPIA”)

1. PREAMBLE AND INTRODUCTION

- 1.1. The rights and obligation of the Parties in terms of the Protection of Personal Information Act, 4 of 2013 (“POPIA”) are included as forming part of the terms and conditions of this contract.

2. PROTECTION OF PERSONAL INFORMATION

- 2.1. The following terms shall bear the same meaning as contemplated in Section 1 of the Protection of Person information act, No. of 2013 “(POPIA”):
consent; data subject; electronic communication; information officer; operator; person; personal information; processing; record; Regulator; responsible party; special information; as well as any terms derived from these terms.
- 2.2. The Operator will process all information by the Transnet in terms of the requirements contemplated in Section 4(1) of the POPIA:
Accountability; Processing limitation; Purpose specification; Further processing limitation; Information quality; Openness; Security safeguards and Data subject participation.
- 2.3. The Parties acknowledge and agree that, in relation to personal information of Transnet and the information of a third party that will be processed pursuant to this Agreement , the Operator is
(..... insert name of Tenderer/Contractor)
hereinafter Operator and the Data subject is “Transnet”. Operator will process personal information only with the knowledge and authorisation of Transnet and will treat personal information and the information of a third party which comes to its knowledge as confidential and will not disclose it, unless so required by law or subject to the exceptions contained in the POPIA.
- 2.4. Transnet reserves all the rights afforded to it by the POPIA in the processing of any of its information as contained in this Agreement and the Operator is required to comply with all prescripts as detailed in the POPIA relating to all information concerning Transnet.
- 2.5. In terms of this Agreement, the Operator acknowledges that it will obtain and have access to personal information of Transnet and the information of a third party and agrees that it shall only process the information disclosed by Transnet in terms of this Agreement and only for the purposes as detailed in this Agreement and in accordance with any applicable law.

- 2.6. Should there be a need for the Operator to process the personal information and the information of a third party in a way that is not agreed to in this Agreement, the Operator must request consent from Transnet to the processing of its personal information or and the information of a third party in a manner other than that it was collected for, which consent cannot be unreasonably withheld.
- 2.7. Furthermore, the Operator will not otherwise modify, amend or alter any personal information and the information of a third party submitted by Transnet or disclose or permit the disclosure of any personal information and the information of a third party to any third party without prior written consent from Transnet.
- 2.8. The Operator shall, at all times, ensure compliance with any applicable laws put in place and maintain sufficient measures, policies and systems to manage and secure against all forms of risks to any information that may be shared or accessed pursuant to the services offered to Transnet in terms of this Agreement (physically, through a computer or any other form of electronic communication).
- 2.9. The Operator shall notify Transnet in writing of any unauthorised access to personal information and the information of a third party , cybercrimes or suspected cybercrimes, in its knowledge and report such crimes or suspected crimes to the relevant authorities in accordance with applicable laws, after becoming aware of such crimes or suspected crime. The Operator must inform Transnet of the breach as soon as it has occurred to allow Transnet to take all necessary remedial steps to mitigate the extent of the loss or compromise of personal information and the information of a third party and to restore the integrity of the affected personal information as quickly as is possible.
- 2.10. Transnet may, in writing, request the Operator to confirm and/or make available any personal information and the information of a third party in its possession in relation to Transnet and if such personal information has been accessed by third parties and the identity thereof in terms of the POPIA.
- 2.11. Transnet may further request that the Operator correct, delete, destroy, withdraw consent or object to the processing of any personal information and the information of a third party relating to the Transnet or a third party in the Operator's s possession in terms of the provision of the POPIA and utilizing Form 2 of the POPIA Regulations .
- 2.12. In signing this addendum that is in terms of the POPIA, the Operator hereby agrees that it has adequate measures in place to provide protection of the personal information and the information of a third party given to it by Transnet in line with the 8 conditions of the POPIA and that it will provide to Transnet satisfactory evidence of these measures whenever called upon to do so by Transnet.



The Operator is required to provide confirmation that all measures in terms of the POPIA are in place when processing personal information and the information of a third party received from Transnet:

YES		NO	
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2.13. Further, the Operator acknowledges that it will be held liable by Transnet should it fail to process personal information in line with the requirements of the POPIA. The Operator will be subject to any civil or criminal action, administrative fines or other penalty or loss that may arise as a result of the processing of any personal information that Transnet submitted to it.

2.14. Should a Tenderer have any complaints or objections to processing of its personal information, by Transnet, the Tenderer can submit a complaint to the Information Regulator on <https://www.justice.gov.za/infoereg/>, click on contact us, click on complaints.IR@justice.gov.za

3. SOLE AGREEMENT

3.1. The Agreement, constitute the sole agreement between the parties relating to the subject matter referred to in paragraph 1.1 of this and no amendment/variation/change shall be of any force and effect unless reduced to writing and signed by or on behalf of both parties.

Signed at _____ on this _____ day of _____ 2021

Name: _____

Title: _____

Signature: _____

..... **(Name of company)**

(Operator)

Authorised signatory for and on behalf of (Name) who warrants that he/she is duly authorised to sign this Agreement.

AS WITNESSES:

1. Name: _____ Signature: _____

2. Name: _____ Signature: _____

T2.2-25: Disclosure Information : Domestic Prominent Influential Persons (DPIP) OR Foreign Prominent Public Officials (FPPO)

Transnet is free to procure the services of any person within or outside the Republic of South Africa in accordance with applicable legislation. Transnet shall not conduct or conclude business transactions, with any Respondents without having:

- Considered relevant governance protocols;
- Determined the DPIP or FPPO status of that counterparty; and
- Conducted a risk assessment and due diligence to assess the potential risks that may be posed by the business relationship.

As per the Transnet Domestic Prominent Influential Persons (DPIP) and Foreign Prominent Public Officials (FPPO) and Related Individuals Policy available on Transnet website <https://www.transnet.net/search/pages/results.aspx?k=FPIDP#k=DPIP>, Respondents are required to disclose any commercial relationship with a DPIP or FPPO (as defined in the Policy) by completing the following section:

The below form contains personal information as defined in the Protection of Personal Information Act, 2013 (the "Act"). By completing the form, the signatory consents to the processing of her/his personal information in accordance with the requirements of the Act. Consent cannot unreasonably be withheld.						
Is the Respondent (Complete with a "Yes" or "No")						
A DPIP/FPPO		Closely Related to a DPIP/FPPO		Closely Associated to a DPIP/FPPO		
List all known business interests, in which a DPIP/FPPO may have a direct/indirect interest or significant participation or involvement.						
No	Name of Entity / Business	Role in the Entity / Business (Nature of interest/ Participation)	Shareholding %	Registration Number	Status (Mark the applicable option with an X)	
					Active	Non-Active
1						
2						
3						

Respondents declaring a commercial relationship with a DPIP or FPPO are to note that Transnet is required to annually publish on its website a list of all business contracts entered into with DPIP or FPPO. This list will include successful Respondents, if applicable.

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T2.2-26 SUPPLIER DECLARATION FORM

Transnet Vendor Management has received a request to load / change your company details onto the Transnet vendor master database. Please return the completed Supplier Declaration Form (SDF) together with the required supporting documents as per Appendix A to the Transnet Official who is intending to procure your company's services / products, to enable us to process this request. Please only submit the documentation relevant to your request.

Please Note: all organisations, institutions and individuals who wish to provide goods and/or services to organs of the State must be registered on the National Treasury's Central Supplier Database (CSD). This needs to be done via their portal at <https://secure.csd.gov.za/> **before applying to Transnet.**

General Terms and Conditions:

Please Note: Failure to submit the relevant documentation will delay the vendor creation / change process.

Where applicable, the respective Transnet Operating Division processing your application may request further or additional information from your company.

The Service Provider warrants that the details of its bank account ("the nominated account") provided herein, are correct and acknowledges that payments due to the Supplier will be made into the nominated account. If details of the nominated account should change, the Service Provider must notify Transnet in writing of such change, failing which any payments made by Transnet into the nominated account will constitute a full discharge of the indebtedness of Transnet to the Supplier in respect of the payment so made. Transnet will incur no liability for any payments made to the incorrect account or any costs associated therewith. In such an event, the Service Provider indemnifies and holds Transnet harmless in respect of any payments made to an incorrect bank account and will, on demand, pay Transnet any costs associated herewith.

Transnet expects its suppliers to timeously renew their Tax Clearance and B-BBEE certificates (Large Enterprises and QSEs less than 51% black owned) as well as sworn affidavits in the case of EMEs and QSEs with more than 51% black ownership as per Appendices C and D.

TRANSNET NATIONAL PORTS AUTHORITY**TENDER NUMBER: TNPA/2023/08/0004/37853/RFP****DESCRIPTION OF THE WORKS: APPOINTMENT OF A CONTRACTOR TO UNDERTAKE THE COMPLETE CONSTRUCTION, ASSEMBLE, PAINT, COMMISSION, DELIVER, OPERATIONALIZE AND HAND OVER OF TWO (2) WORKBOATS TO THE PORT OF CAPE TOWN.**

In addition, please take note of the following very important information:

1. **If your annual turnover is R10 million or less**, then in terms of the DTI Generic Codes of Good Practice, you are classified as an Exempted Micro Enterprise (EME). If your company is classified as an EME, please include in your submission a sworn affidavit confirming your company's most recent annual turnover is less than R10 million and percentage of black ownership and black female ownership in the company (Appendix C) OR B-BBEE certificate issued by a verification agency accredited by SANAS in terms of the EME scorecard should you feel you will be able to attain a better B-BBEE score. It is only in this context that an EME may submit a B-BBEE verification certificate. These EME sworn affidavits must be accepted by the . Government introduced this mechanism specifically to reduce the cost of doing business and regulatory burden for these entities and the template for the sworn affidavit is available at no cost on the website www.thedti.gov.za or EME certificates at CIPC from www.cipic.co.za.

The B-BBEE Commission said "that only time an EME can be verified by a SANAS accredited verification professional is when it wishes to maximise its B-BBEE points and move to a higher B-BBEE recognition level, and that must be done use the QSE Scorecard".

2. **If your annual turnover is between R10 million and R50 million**, then in terms of the DTI codes, you are classified as a Qualifying Small Enterprise (QSE). A QSE which is at least 51% black owned, is required to submit a sworn affidavit confirming their annual total revenue of between R10 million and R50 million and level of black ownership (Appendix D). QSE that does not qualify for 51% of black ownership, are required to submit a B-BBEE verification certificate issued by a verification agency accredited by SANAS their QSEs are required to submit a B-BBEE verification certificate issued by a verification agency accredited by SANAS.

Please Note: B-BBEE certificate and detailed scorecard should be obtained from an accredited rating agency (e.g. SANAS Member).

3. **If your annual turnover exceeds R50 million**, then in terms of the DTI codes, you are classified as a Large Enterprise. Large Enterprises are required to submit a B-BBEE level verification certificate issued by a verification agency accredited by SANAS.

Please Note: B-BBEE certificate and detailed scorecard should be obtained from an accredited rating agency (e.g. SANAS Member).

4. **The supplier to furnish proof to the procurement department as required in the Fourth Schedule of the Income Tax Act. 58 of 1962** whether a supplier of service is to be classified as an "employee", "personal service provider" or "labour broker". Failure to do so will result in the supplier being subject to employee's tax.

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5. **No payments can be made to a vendor until the** vendor has been registered / updated, and no vendor can be registered / updated until the vendor application form, together with its supporting documentation, has been received and processed. No payments can be made to a vendor until the vendor has met / comply with the procurement requirements.

6. It is in line with PPPFA Regulations, only valid B-BBEE status level certificate issued by an unauthorised body or person OR a sworn affidavit as prescribed by the B-BBEE Codes of Good Practice, OR any other requirement prescribed in terms of the Broad- Based Black Economic Empowerment Act.

7. The B-BBEE Commission advises entities and organs of state to reject B-BBEE certificates that have been issued by verification agencies or professionals who are not accredited by South African National Accreditation Systems ("SANAS) as such B-BBEE certificates are invalid for lack of authority and mandate to issue them. A list of SANAS Accredited agencies is available on the SANAS website at www.sanas.co.za.

8. Presenting banking details. Please note: Banks have decided to enable the customers and provide the ability for customers to generate Account Confirmation/Bank Account letters via their online platform; this is a digital approach to the authentication of banking details.

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SUPPLIER DECLARATION FORM

Supplier Declaration Form

Important Notice: all organisations, institutions and individuals who wish to provide goods and/or services to organs of the State must be registered on the National Treasury Central Supplier Database (CSD). This needs to be done via their portal at <https://secure.csd.gov.za/> **before applying to Transnet.**

CSD Number (MAAA xxxxxxx):

Company Trading Name						
Company Registered Name						
Company Registration No Or ID No If a Sole Proprietor						
Company Income Tax Number						
Form of Entity	CC	Trust	Pty Ltd	Limited	Partnership	Sole Proprietor
	Non-profit (NPO's or NPC)	Personal Liability Co	State Owned Co	National Govt	Provincial Govt	Local Govt
	Educational Institution	Specialised Profession	Financial Institution	Joint Venture	Foreign International	Foreign Branch Office

Did your company previously operate under another name? Yes No

If **YES** state the previous details below:

Trading Name						
Registered Name						
Company Registration No Or ID No If a Sole Proprietor						
Form of Entity	CC	Trust	Pty Ltd	Limited	Partnership	Sole Proprietor
	Non-profit (NPO's or NPC)	Personal Liability Co	State Owned Co	National Govt	Provincial Govt	Local Govt
	Educational Institution	Specialised Profession	Financial Institution	Joint Venture	Foreign International	Foreign Branch Office

Your Current Company's VAT Registration Status

VAT Registration Number	
-------------------------	--

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If Exempted from VAT registration , state reason and submit proof from SARS in confirming the exemption status	
If your business entity is not VAT Registered, please submit a current original sworn affidavit (see example in Appendix I). Your Non VAT Registration must be confirmed annually.	

Company Banking Details	Bank Name	
Universal Branch Code	Bank Account Number	

Company Physical Address		Code	
Company Postal Address		Code	
Company Telephone number			
Company Fax Number			
Company E-Mail Address			
Company Website Address			

Company Contact Person Name	
Designation	
Telephone	
Email	

Is your company a Labour Broker?	Yes		No	
Main Product / Service Supplied e.g. Stationery / Consulting / Labour etc.				
How many personnel does the business employ?	Full Time		Part Time	
Please Note: Should your business employ more than 2 full time employees who are not connected persons as defined in the Income Tax Act, please submit a sworn affidavit, as per Appendix II.				

Most recent Financial Year's Annual Turnover	<R10Million n EME		>R10Million <R50Million QSE		>R50Million n Large Enterprise
--	-------------------------------------	--	--	--	--

Does your company have a valid proof of B-BBEE status?	Yes		No						
Please indicate your Broad Based BEE status (Level 1 to 9)	1	2	3	4	5	6	7	8	9
Majority Race of Ownership									



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% Black Ownership		% Black Women Ownership		% Black Disabled person(s) Ownership		% Black Youth Ownership	
% Black Unemployed		% Black People Living in Rural Areas		% Black Military Veterans			

Please Note: Please provide proof of B-BBEE status as per Appendix C and D:

- Large Enterprise and QSEs with less than 51% black ownership need to obtain a B-BBEE certificate and detailed scorecard from an accredited rating agency;
- EMEs and QSEs with at least 51% black ownership may provide an affidavit using the templates provided in Appendix C and D respectively;
- Black Disabled person(s) ownership will only be accepted if accompanied with a certified letter signed by a physician on the physician’s letterhead confirming the disability;
- A certified South African identification document will be required for all Black Youth Ownership.

Supplier Development Information Required	
EMPOWERING SUPPLIER	YES <input type="radio"/> NO <input type="radio"/>
<p>An Empowering Supplier is a B-BBEE compliant Entity which complies with at least three criteria if it is a large Entity, or one criterion if it is a Qualifying Small Enterprise (“QSE”), as detailed in Statement 400 of the New Codes.</p> <p>In terms of the requirements of an Empowering Supplier, numerous companies found it challenging to meet the target of 25% transformation of raw materials or beneficiation including local manufacturing, particularly so, if these companies imported goods or products from offshore. The matter was further compounded by the requirement for 25% of Cost of Sales, excluding labour cost and depreciation, to be procured from local producers or suppliers.</p>	
FIRST TIME SUPPLIER	YES <input type="radio"/> NO <input type="radio"/>
<p>A supplier that we haven’t as yet Traded within Transnet and will be registered via our database for the 1st time.</p>	
SUPPLIER DEVELOPMENT PLAN	YES <input type="radio"/> NO <input type="radio"/>
<p>Supplier Development Plan is a plan that when we as Transnet award a supplier a long term contract depending on the complexity of the Transaction. We will negotiate supplier development obligations that they must meet throughout the</p>	

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contract duration. e.g. we might request that they (create jobs or do skills development or encourage procurement from designated groups. (BWO, BYO & BDO etc.).	
DEVELOPMENT PLAN DOCUMENT Agreed plan that will be crafted with the supplier in regards to their development (It could be for ED OR SD in terms of their developmental needs they may require with the company.	YES <input type="radio"/> NO <input type="radio"/> *If Yes- Attach supporting documents
ENTERPRISE DEVELOPMENT BENEFICIARY A supplier that is not as yet in our value chain that we are assisting in their developmental area.	YES <input type="radio"/> NO <input type="radio"/>
SUPPLIER DEVELOPMENT BENEFICIARY A supplier that we are already doing business with or transacting with and we are also assisting them in their developmental area e.g. (They might require training or financial assistance etc.)	YES <input type="radio"/> NO <input type="radio"/>
GRADUATION FROM ED TO SD BENEFICIARY When a supplier that we assisted with as an ED beneficiary then gets awarded a business and we start Transacting with.	YES <input type="radio"/> NO <input type="radio"/>
ENTERPRISE DEVELOPMENT RECIPIENT A supplier that isn't in our value chain as yet but we have assisted them with an ED intervention	YES <input type="radio"/> NO <input type="radio"/>

By signing below, I hereby verify that I am duly authorised to sign for and on behalf of firm / organisation and that all information contained herein and attached herewith are true and correct

Name and Surname		Designation	
Signature		Date	



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APPENDIX B

Affidavit or Solemn Declaration as to VAT registration status

Affidavit or Solemn Declaration

I, _____ solemnly swear/declare that _____ is not a registered VAT vendor and is not required to register as a VAT vendor because the combined value of taxable supplies made by the provider in any 12 month period has not exceeded or is not expected to exceed R1million threshold, as required in terms of the Value Added Tax Act.

Signature: _____

Designation: _____

Date: _____

Commissioner of Oaths

Thus signed and sworn to before me at _____ on this the _____ day of _____ 20_____,

the Deponent having knowledge that he/she knows and understands the contents of this Affidavit, and that he/she has no objection to taking the prescribed oath, which he/she regards binding on his/her conscience and that the allegations herein contained are all true and correct.

 Commissioner of Oaths

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APPENDIX C

SWORN AFFIDAVIT – B-BBEE QUALIFYING SMALL ENTERPRISE – GENERAL

I, the undersigned,

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

Enterprise Name:	
Trading Name (If Applicable):	
Registration Number:	
Enterprise Physical Address:	
Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):	
Nature of Business:	
Definition of "Black People"	<p>As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians –</p> <p>(a) who are citizens of the Republic of South Africa by birth or descent; or (b) who became citizens of the Republic of South Africa by naturalisation- i. before 27 April 1994; or</p>



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	<p>ii. on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;”</p>
<p>Definition of “Black Designated Groups”</p>	<p>Black Designated Groups means:</p> <ul style="list-style-type: none"> (a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution; (b) Black people who are youth as defined in the National Youth Commission Act of 1996; (c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act; (d) Black people living in rural and under developed areas; (e) Black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011;”

3. I hereby declare under Oath that:

- The Enterprise is _____% Black Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise is _____% Black Female Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise is _____% Black Designated Group Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- Black Designated Group Owned % Breakdown as per the definition stated above:
- Black Youth % = _____%
- Black Disabled % = _____%
- Black Unemployed % = _____%



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- Black People living in Rural areas % = _____ %
- Black Military Veterans % = _____ %
- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of _____, the annual Total Revenue was between R10,000,000.00 (Ten Million Rands) and R50,000,000.00 (Fifty Million Rands),

- Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% Black Owned	Level One (135% B-BBEE procurement recognition level)	
At Least 51% black owned	Level Two (125% B-BBEE procurement recognition level)	

4. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.

5. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature

.....

Date

.....

Commissioner of Oaths

Signature & stamp

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APPENDIX D

SWORN AFFIDAVIT – B-BBEE EXEMPTED MICRO ENTERPRISE – GENERAL

I, the undersigned,

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

Enterprise Name:	
Trading Name (If Applicable):	
Registration Number:	
Enterprise Physical Address:	
Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):	
Nature of Business:	


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Definition of "Black People"	<p>As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians –</p> <p>(a) who are citizens of the Republic of South Africa by birth or descent;</p> <p>or</p> <p>(b) who became citizens of the Republic of South Africa by naturalisation-</p> <p>i. before 27 April 1994; or</p> <p>ii. on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;"</p>
Definition of "Black Designated Groups"	<p>"Black Designated Groups means:</p> <p>(a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution;</p> <p>(b) Black people who are youth as defined in the National Youth Commission Act of 1996;</p> <p>(c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act;</p> <p>(d) Black people living in rural and under developed areas;</p> <p>(e) Black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011;"</p>

3. I hereby declare under Oath that:

- The Enterprise is _____% Black Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise is _____% Black Female Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,

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- The Enterprise is _____% Black Designated Group Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- Black Designated Group Owned % Breakdown as per the definition stated above:
 - Black Youth % = _____%
 - Black Disabled % = _____%
 - Black Unemployed % = _____%
 - Black People living in Rural areas % = _____%
 - Black Military Veterans % = _____%
- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of _____, the annual Total Revenue was R10,000,000.00 (Ten Million Rands) or less
- Please Confirm on the below table the B-BBEE Level Contributor, **by ticking the applicable box.**

100% Black Owned	Level One (135% B-BBEE procurement recognition)	
At least 51% Black Owned	Level Two (125% B-BBEE procurement recognition level)	
Less than 51% Black Owned	Level Four (100% B-BBEE procurement recognition level)	

4. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.
5. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature

.....

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Date

Commissioner of Oaths

Signature & stamp

VENDOR REGISTRATION DOCUMENTS CHECKLIST

Please note that you will have to provide the first two documents on the list (highlighted in red) and the rest will be provided by the supplier:

	Yes	No
1. Complete the "Supplier Declaration Form" (SDF) (commissioned). See attachment.		
2. Complete the "Supplier Code of Conduct" (SCC). See attachment.		
3. Copy of cancelled cheque OR letter from the bank verifying banking details (with bank stamp not older than 3 Months & sign by Bank Teller).		
4. Certified (Not Older than 3 Months) copy of Identity document of Shareholders/Directors/Members (where applicable).		
5. Certified copy of certificate of incorporation, CM29 / CM9 (name change).		
6. Certified copy of share Certificates of Shareholders, CK1 / CK2 (if CC).		
7. A letter with the company's letterhead confirming both Physical and Postal address.		
8. Original or certified copy of SARS Tax Clearance certificate and Vat registration certificate.		
9. BBBEE certificate and detailed scorecard from a SANAS Accredited Verification Agency and/or Sworn Certified Affidavit.		
10. Central Supplier Database (CSD) Summary Registration Report.		

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T2.2-27: Insurance provided by the *Contractor*

Clause 84.1 in NEC3 Engineering & Construction Contract (June 2005)(amended June 2006 and April 2013) requires that the *Contractor* provides the insurance stated in the insurance table except any insurance which the *Employer* is to provide as stated in the Contract Data.

Please provide the following details for insurance which the *Contractor* is still to provide. Notwithstanding this information all costs related to insurance are deemed included in the tenderer's rates and prices.

Insurance against (See clause 84.2 of the ECC)	Name of Insurance Company	Cover	Premium
Liability for death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with this contract			
Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger and Unauthorised Passenger Liability indemnity with a minimum indemnity limit of R5 000 000.			
Insurance in respect of loss of or damage to own property and equipment.			
Marine Craft Hull insurance in respect of all marine craft or vessels utilised in performance of the Works for a sum sufficient to provide for their replacement			
Protection and Indemnity Insurance in respect of all marine craft or vessels utilised in performance of the Works extended for Specialist Operations with a minimum indemnity limit of R 20,000,000			
(Other)			

T2.2-28: Form of Intent to Provide a Performance Guarantee

It is hereby agreed by the Tenderer that a Performance Guarantee drafted **exactly** as provided in the tender documents will be provided by the Guarantor named below, which is a **bank or insurer registered in South Africa**:

Name of Guarantor
(Bank/Insurer)

Address

The Performance Guarantee shall be provided within **2 (Two)** weeks after the Contract Date defined in the contract unless otherwise agreed to by the parties.

Signed

Name

Capacity

On behalf of (name of tenderer)

Date

Confirmed by Guarantor's Authorised Representative

Signature(s)

Name (print)

Capacity

On behalf of Guarantor
(Bank/insurer)

Date

T2.2-29: Foreign Exchange Requirements

The Tenderer to provide detailed breakdown of items that will have a foreign exchange implication.

Justification and full details supporting foreign currency requirements to be appended to this Schedule.

Items & activities	Currency	Bank	Maximum payment

The *exchange rates* to be used must be the exchange rate published by South African Reserve Bank (SARB) on the **date of advertisement** of the bid.

It is expected that the percentages of foreign currency or currencies quoted are realistic and that they adequately reflect the overall foreign component of cost.

Due to the introduction of International Financial Reporting Standards IS32 and IS39, the *Employer* may not be able to accommodate a tenderer’s requirements in full or at all.

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T2.2-30: Forecast Rate of Invoicing

Tenderer to submit the forecast rate of invoicing (cash-flow) based on the Tender Price and Tender Programme.

Index of documentation attached to this schedule:

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TRANSNET NATIONAL PORTS AUTHORITY
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T2.2-31: Three (3) years audited financial statements

Attached to this schedule is the last three (3) years audited financial statements of the single tenderer/members of the Joint Venture.

NAME OF COMPANY/IES and INDEX OF ATTACHMENTS:

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Annexures

“HOW TO” GUIDE FOR BIDDERS

REGISTER ON ETENDER PORTAL

ACCESS TENDERS

NB: Do not wait for the last minute to register or to upload a tender. Ensure you complete your process at least 1 day (24 hours) before the closing date

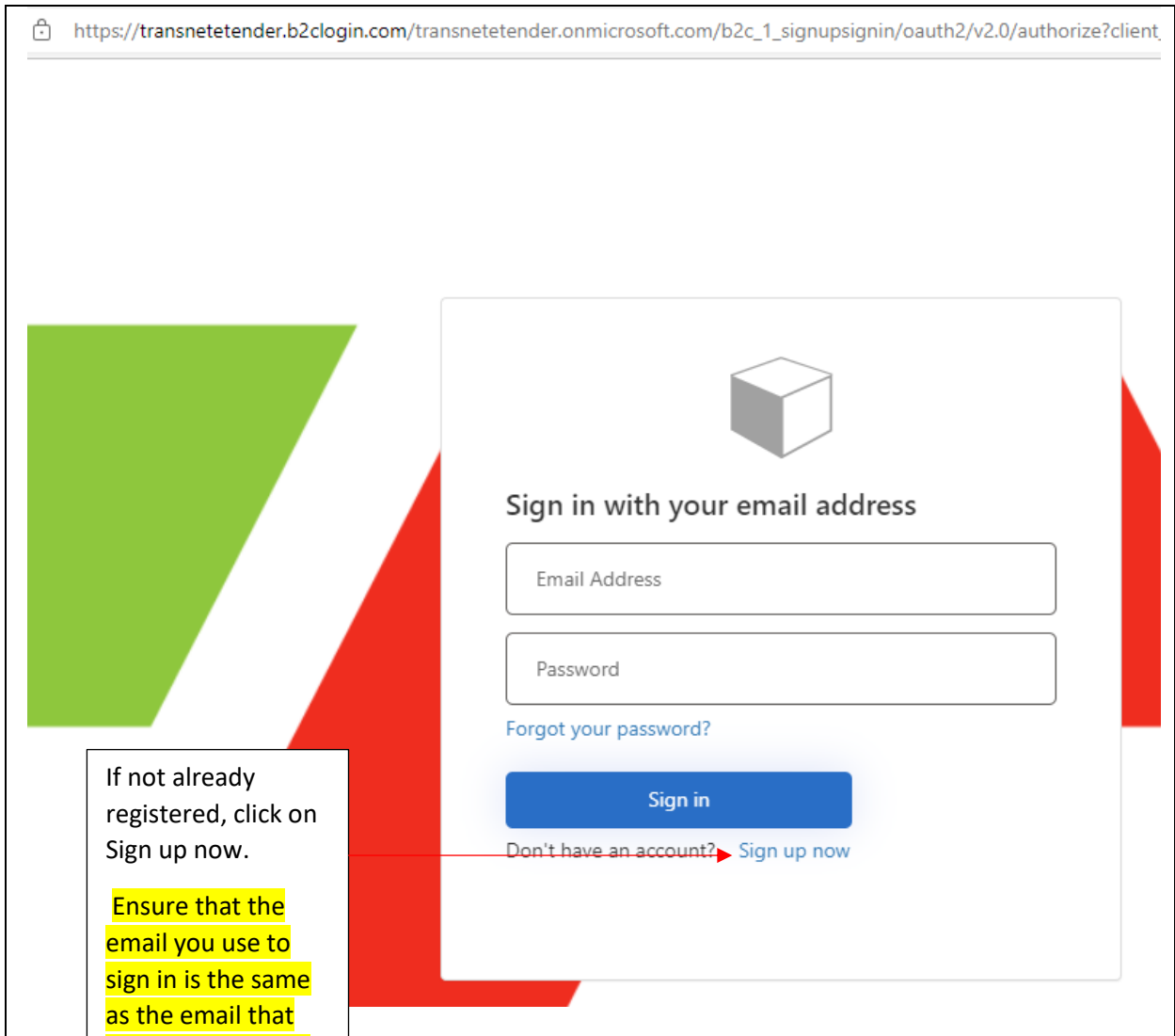
TENDERERS TO NOTE WHEN UPLOADING DOCUMENTS TO ONLY USE ALPHA NUMERIC AND NO SPECIAL CHARACTERS TO BE USED

Go to Google Chrome 

In the address bar type: <https://transnetetenders.azurewebsites.net>

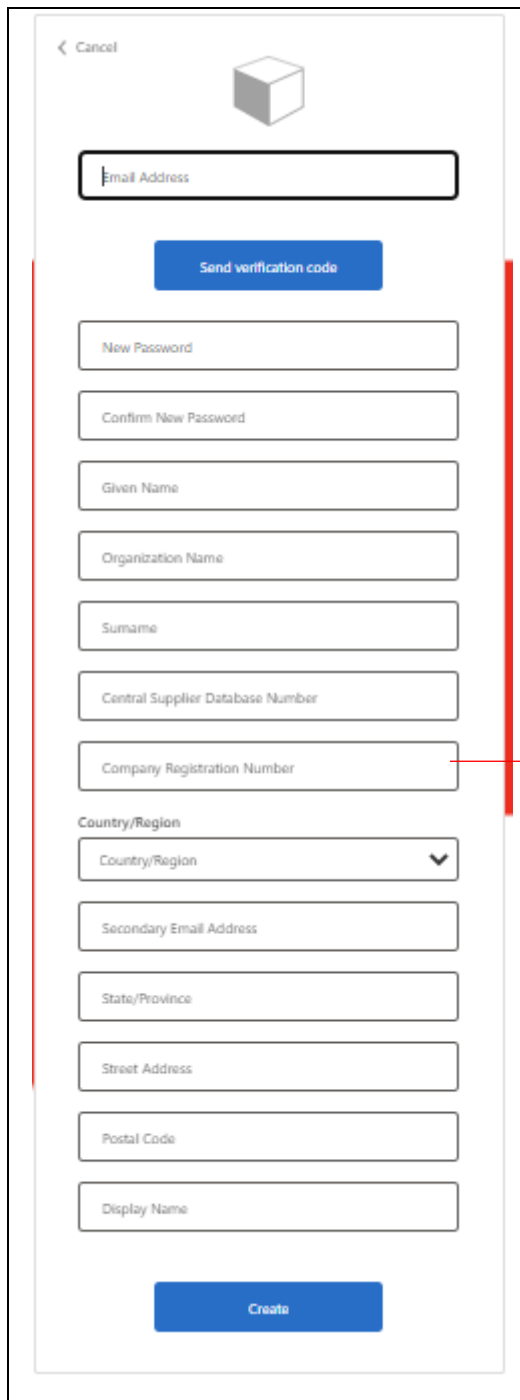


https://transnetetender.b2clogin.com/transnetetender.onmicrosoft.com/b2c_1_signupsignin/oauth2/v2.0/authorize?client



If not already registered, click on Sign up now.

Ensure that the email you use to sign in is the same as the email that you received from the tender invite on the email, otherwise you will not see the tender



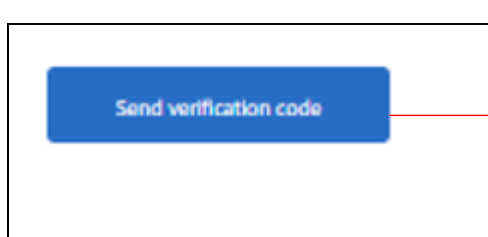
The image shows a registration form with the following fields and buttons:

- Cancel (top left)
- 3D cube icon (top center)
- Email Address (text input)
- Send verification code (blue button)
- New Password (text input)
- Confirm New Password (text input)
- Given Name (text input)
- Organization Name (text input)
- Surname (text input)
- Central Supplier Database Number (text input)
- Company Registration Number (text input)
- Country/Region (dropdown menu)
- Secondary Email Address (text input)
- State/Province (text input)
- Street Address (text input)
- Postal Code (text input)
- Display Name (text input)
- Create (blue button)

Complete all fields, before selecting “Send verification code” and confirm that all information is correct.

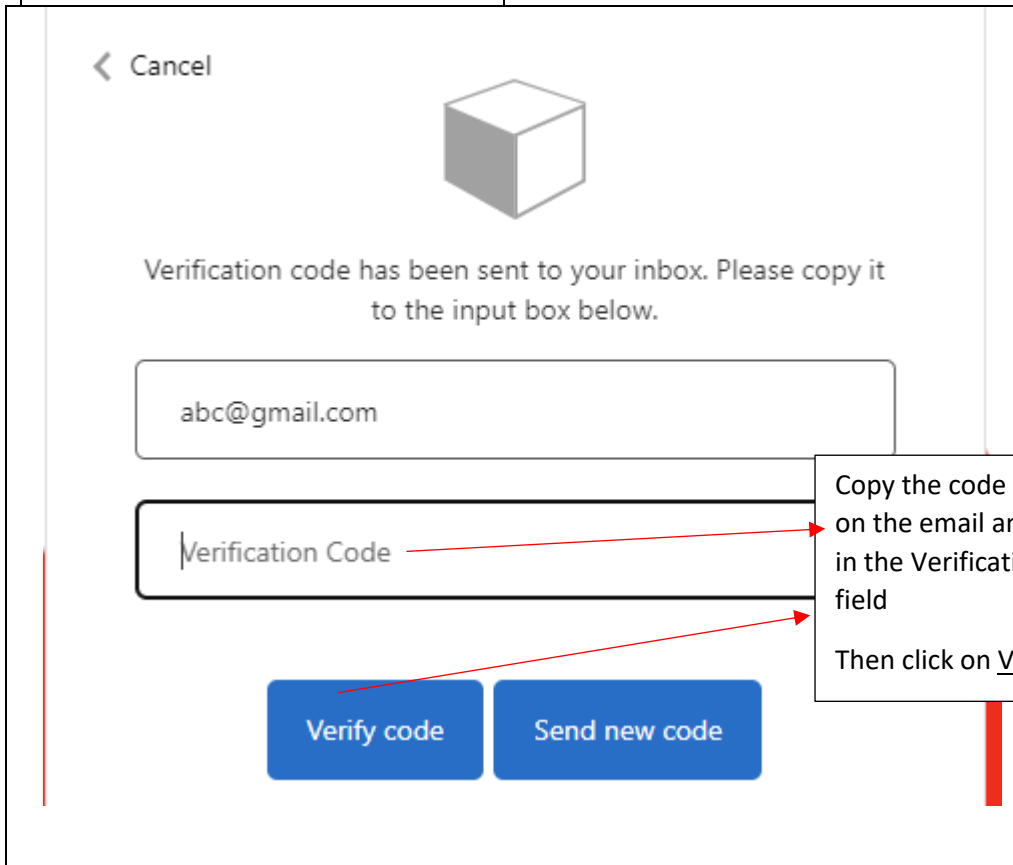
VERY IMPORTANT: Each field needs to be completed and not to be left blank

If you do not have a central Supplier Database number, enter the same company registration number in that field.




Send verification code

After completing all fields, select "Send verification code". The code will be sent to your email.



< Cancel



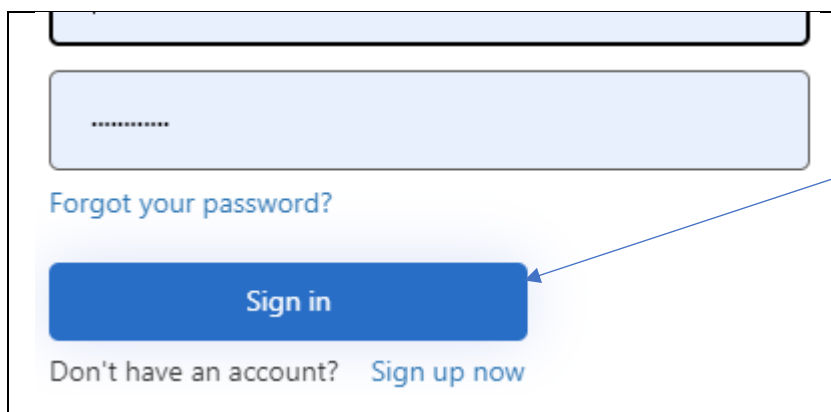
Verification code has been sent to your inbox. Please copy it to the input box below.

abc@gmail.com

Verification Code

Verify code Send new code

Copy the code as received on the email and paste it in the Verification code field
Then click on Verify code



.....

Forgot your password?

Sign in

Don't have an account? Sign up now

Then click on Sign in

Once registered and signed in, the home screen will have "WELCOME (Registered user)"

TRANSNET



DO NOT use secondary email address, YOU THE SAME EMAIL ADDRESS WHICH YOU RECEIVE INVITES FOR BIDDING

Tender Invitation For Tender Ref # TE/2022/04/0697/RFQ - Message (HTML)

File Message Help Tell me what you want to do

Delete Archive Reply Reply All Forward Share to Teams ATM signed To Manager Team Email Move Tags Editing Read Aloud Translate Zoom Send to OneNote Viva Insights

Tender Invitation For Tender Ref # TE/2022/04/0697/RFQ

SRV-TCC-Etender
To noreply@transnet.net

This message was sent with Low importance.

Dear Suppliers,
You have been invited to bid and respond to the following tender:

Name Of Tender : TE22-SRX-1FG-02068
Description : STOP; TOP BUNK, OD 19.5 X HT 6.5 MM
Tender Number : TE/2022/04/0697/RFQ

Access to this tender will be granted by using this email when you sign up/sign in. To access the tender inform

Kind Regards,
Transnet eTenders

When a bidder receives an email to quote, the bidder needs to register with the email address of the recipient that received the email. If already registered, sign in.

NOTE: The details on this email is intended for guidance only and not to be used on the live system

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

ADVERTISED TENDERS

Open Tenders Other Tenders

Show entries Search:

Reference Number	Tender Name	Description	Briefing Session	Closing Date	Tender Status	
TCC/2021/11/0031/RFQ	For the supply and installation of an air compressor	For the supply and installation of an air compressor for indoor shooting range that operates the laser system and supply air to air guns utilised during training and conduct maintenance on air supply system and hoses.		12/10/2021 12:00:00 PM	Closed	View Details
TFR/2021/12/0014/RFQ	ELECTRICAL MATERIAL (CABLES)	SUPPLY AND DELIVERY OF ELECTRICAL MATERIAL (CABLES) FOR A ONCE OFF PERIOD		12/13/2021 4:00:00 PM	Closed	View Details
TFR/2021/12/0017/RFQ	CRAC_JHB_36509.	FOR THE SUPPLY AND DELIVERY OF HIGH BACK CHAIRS FOR CTC OFFICES IN CENTRAL, EASTERN AND WESTERN REGIONS, FOR A ONCE OFF PERIOD.		12/14/2021 10:00:00 AM	Closed	View Details
TFR/2021/12/0015/RFQ	CRAC-JHB-36313	FOR THE SUPPLY AND DELIVERY OF VARIOUS CLAMPS, TERMINAL LUGS, DROPPER CLIPS AND		1/13/2022 12:00:00	Closed	View Details

When signed in, select "ADVERTISED TENDERS".

To manually search and change the view from Closed to Open, click twice on arrow next to "Tender Status". The arrow pointing down will change to blue and open tenders will be displayed.

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

ADVERTISED TENDERS

Open Tenders Other Tenders

Show entries Search:

Reference Number	Tender Name	Description	Briefing Session	Closing Date	Tender Status	
TE/2022/04/0450/RFQ	VALVE:L-1 LOAD DET,WAGONS AIRBRAKE	VALVE:L-1 LOAD DET,WAGONS AIRBRAKE-062101802 VALVE; TYPE: L-1 LOAD DETECTOR, MEDIA FOR WHICH DESIGNED: WAGONS AIRBRAKE, CONNECTION TYPE: FLANGE, SPECIAL FEATURES: BLUE, WITHOUT PIPE BRACKET; SIMILAR ITEM: 062004338		4/8/2022 10:00:00 AM	Open	View Details
TE/2022/04/0494/RFQ	GEAR OIL	OIL: GEAR TYPE SYNTHETIC BRAND NAME MOBILGEAR SHC SERIES GRADE SCH 6800 VISCOSITY RATING 220 TO 320 FLASH POINT 234 DEG C COLOR ORANGE CONTAINER TYPE SACHET 250 G CONTAINER CAPACITY 14 KG FOR USE ON: 39-200 GM, 15E AND 19E LOCOMOTIVES		4/8/2022 10:00:00 AM	Open	View Details
TE/2022/04/0495/RFQ	SUPPLY OF CORROSION (NALCOOL) - APPROVED	ITEM NUMBER - 077807563 INHIBITOR, CORROSION; TYPE: COOL-C18, COLOR: RED,		4/8/2022 10:00:00 AM	Open	View Details

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

ADVERTISED TENDERS

Open Tenders Other Tenders

Show entries Search:

Reference Number	Tender Name	Description	Briefing Session	Closing Date	Tender Status	
TE/2022/04/0697/RFQ	TE22-SRX-1FG-02068	STOP; TOP BUNK, OD 19.5 X HT 6.5 MM		4/13/2022 10:00:00 AM	Open	View Details

To search for a specific tender, the tender number, tender name or description can be used for searching.

ADVERTISED TENDERS

Open Tenders Other Tenders

Show entries Search:

Reference Number	Tender Name	Description	Briefing Session	Closing Date	Tender Status	
TE/2022/04/0697/RFQ	TE22-SRX-1FG-02068	STOP; TOP BUNK, OD 19.5 X HT 6.5 MM		4/13/2022 10:00:00	Open	View Details

When the tender has been identified, click on "View Details"

When the "View Details" has been selected, the following screen will be displayed where the attachments can be viewed or downloaded.

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

TENDER DETAILS

Tender Details

Tender Reference Number	TE/2022/04/0697/RFQ
Name Of Tender	TE22-SRX-1FG-02068
Description	STOP; TOP BUNK, OD 19.5 X HT 6.5 MM
Tender Type	RFQ
Contact Person	Charl du Preez Transnet Engineering SLR
Contact Person Email Address	Charl.duPreez@transnet.net
Date Published	4/7/2022 3:51:47 PM
Closing Date	4/13/2022 10:00:00 AM
Briefing Date And Time	
Briefing Details	
Location Of Service	Coaches, Salt River

Briefing Session

Closing Date
4/13/2022 10:00:00 AM

Attachments

- 2.14 Standard Terms and Conditions of Contract f
- 2.18 Supplier Integrity Pact_April 2020_v1.pdf
- 2.19 Non Disclosure Agreement_April 2020_v1.pdf
- 2.9 Request for Quotations TE22-SRX-1FG-02068,

Log An Intent To Bid

If interested to bid, on the same page there's an option to select: **Log an Intent to Bid**. Once selected, an option will appear to "**Submit Intent**" or "**Cancel**". Click on **Submit Intent**

Tender Det

Tender Reference Number	TE/2022/04/0697/RFQ
Name Of Tender	TE22-SRX-1FG-02068
Description	STOP; TOP BUNK, OD 19.5 X HT 6.5 MM
Tender Type	RFQ
Contact Person	Charl du Preez Transnet Engineering SLR
Contact Person Email Address	Charl.duPreez@transnet.net
Date Published	4/7/2022 3:51:47 PM
Closing Date	4/13/2022 10:00:00 AM
Briefing Date And Time	
Briefing Details	
Location Of Service	Coaches, Salt River
Name Of Institution	TE
Tender Category	Goods
Tender Status	Open

Briefing Session

Closing Date
4/13/2022 10:00:00 AM

Attachments

- 2.14 Standard Terms and Conditions of Contract f
- 2.18 Supplier Integrity Pact_April 2020_v1.pdf
- 2.19 Non Disclosure Agreement_April 2020_v1.pdf
- 2.9 Request for Quotations TE22-SRX-1FG-02068,

Log An Intent To Bid

Tender Details

Tender Reference Number

Name Of Tender

Description

Tender Type RFQ

Contact Person Charl du Preez Transnet Engineering SLR

Contact Person Email Address Charl.duPreez@transnet.net

Date Published 4/7/2022 3:51:47 PM

Closing Date 4/13/2022 10:00:00 AM

Briefing Date And Time

Briefing Details

Location Of Service

Name Of Institution

Tender Category

Tender Status

Intent to Bid

Your request to log an intent to bid has been successfully submitted.

[Close](#)

Briefing Session

Closing Date 4/13/2022 10:00:00 AM

Attachments

- 2.14 Standard Terms and Conditions of Contract for
- 2.18 Supplier Integrity Pact_April 2020_v1.pdf
- 2.19 Non Disclosure Agreement_April 2020_v1.pdf
- 2.9 Request for Quotations TE22-SRX-1FG-02068.pdf

Log An Intent To Bid

[Submit Intent](#) [Cancel](#)

When the "Submit Intent" is selected, a message will appear to indicate that the request was successfully submitted. Click on close and wait for the next screen.

delivering freight reliably

HOME
ADVERTISED TENDERS
MY SUBMITTED INTENTS
MY BID DOCUMENT SUBMISSIONS
CONTACT
WELCOME TESTING
SIGN OUT

MY SUBMISSION INTENTS

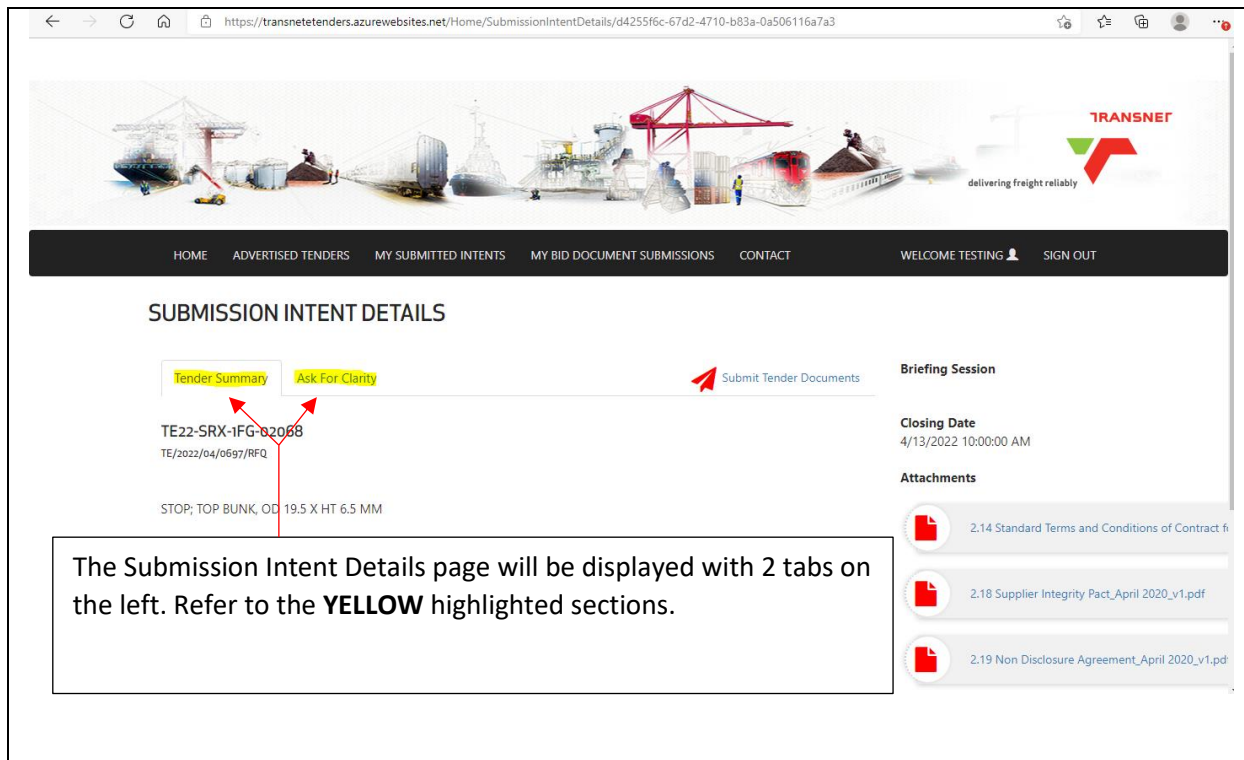
Show entries

Tender Reference Number	Name	Description Of Tender	Briefing Session Date	Closing Date	View Details
TE/2022/04/0697/RFQ	TE22-SRX-1FG-02068	STOP; TOP BUNK, OD 19.5 X HT 6.5 MM		4/13/2022 10:00:00 AM	View Details

Showing 1 to 1 of 1 entries

Previous 1 Next

The screen should be updated and load the "MY SUBMITTED INTENTS". To proceed to capturing your bid documents, click on "View Details"



https://transnettenders.azurewebsites.net/Home/SubmissionIntentDetails/d4255f6c-67d2-4710-b83a-0a506116a7a3

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

SUBMISSION INTENT DETAILS

Tender Summary **Ask For Clarity** Submit Tender Documents

TE22-SRX-1FG-02068
TE/2022/04/0697/RFQ

STOP, TOP BUNK, OD 19.5 X HT 6.5 MM

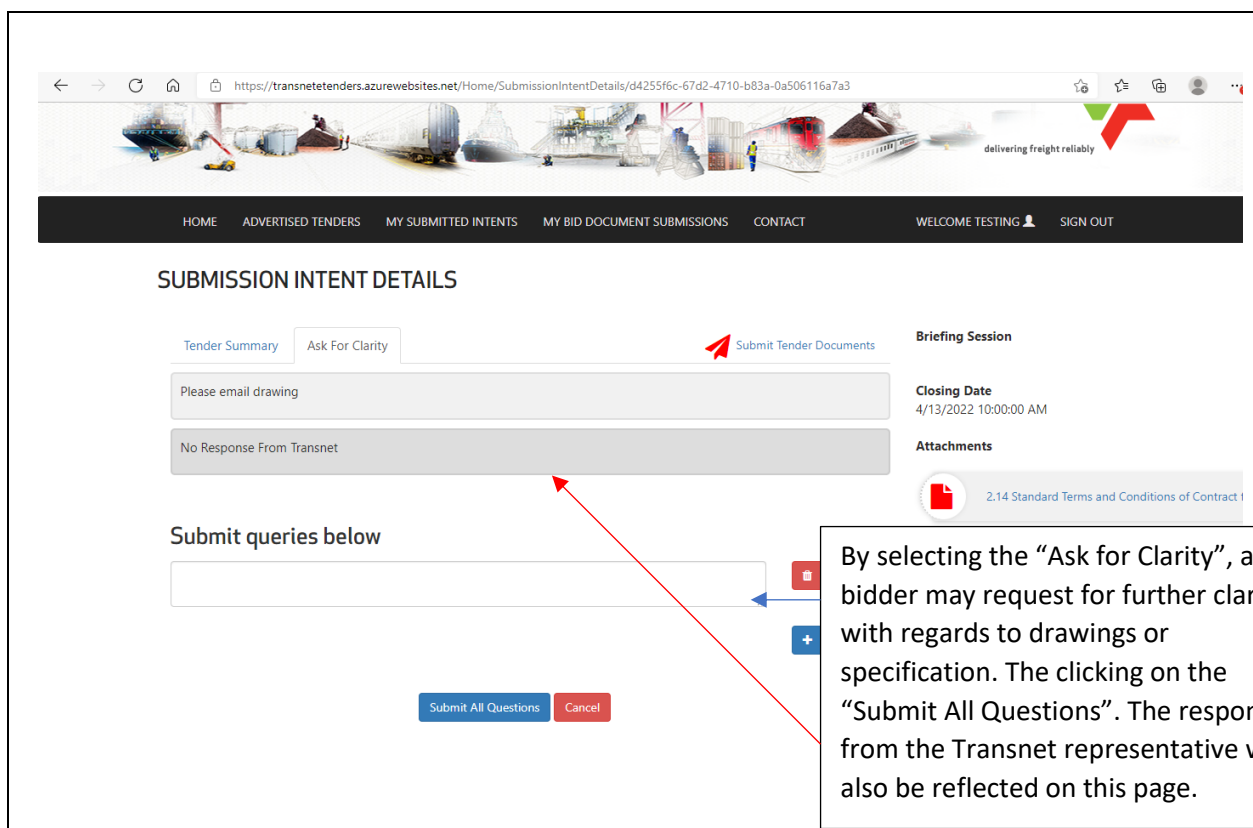
Briefing Session

Closing Date
4/13/2022 10:00:00 AM

Attachments

- 2.14 Standard Terms and Conditions of Contract f
- 2.18 Supplier Integrity Pact_April 2020_v1.pdf
- 2.19 Non Disclosure Agreement_April 2020_v1.pdf

The Submission Intent Details page will be displayed with 2 tabs on the left. Refer to the **YELLOW** highlighted sections.



https://transnettenders.azurewebsites.net/Home/SubmissionIntentDetails/d4255f6c-67d2-4710-b83a-0a506116a7a3

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

SUBMISSION INTENT DETAILS

Tender Summary Ask For Clarity Submit Tender Documents

Please email drawing

No Response From Transnet

Briefing Session

Closing Date
4/13/2022 10:00:00 AM

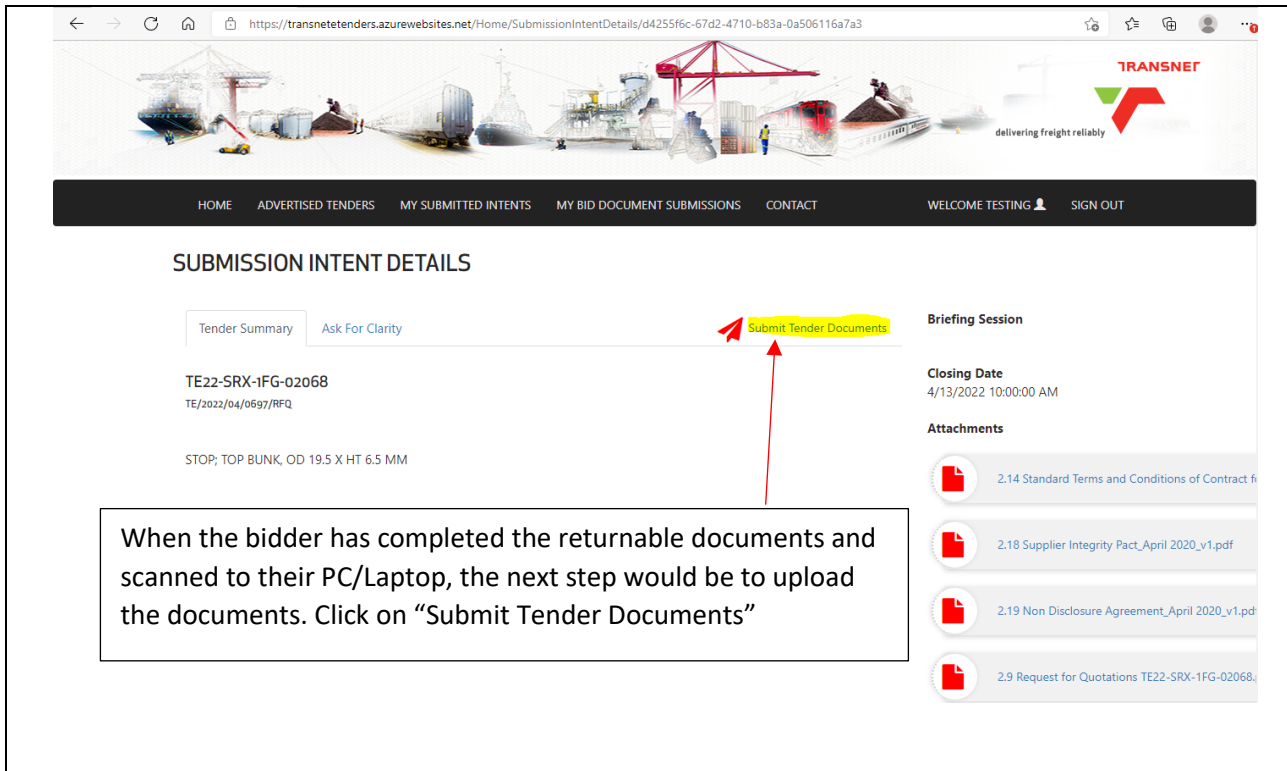
Attachments

- 2.14 Standard Terms and Conditions of Contract 1

Submit queries below

Submit All Questions Cancel

By selecting the "Ask for Clarity", a bidder may request for further clarity with regards to drawings or specification. The clicking on the "Submit All Questions". The response from the Transnet representative will also be reflected on this page.



https://transnettenders.azurewebsites.net/Home/SubmissionIntentDetails/d4255f6c-67d2-4710-b83a-0a506116a7a3

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

SUBMISSION INTENT DETAILS

Tender Summary Ask For Clarity **Submit Tender Documents**

TE22-SRX-1FG-02068
TE/2022/04/0697/RFQ

STOP; TOP BUNK, OD 19.5 X HT 6.5 MM

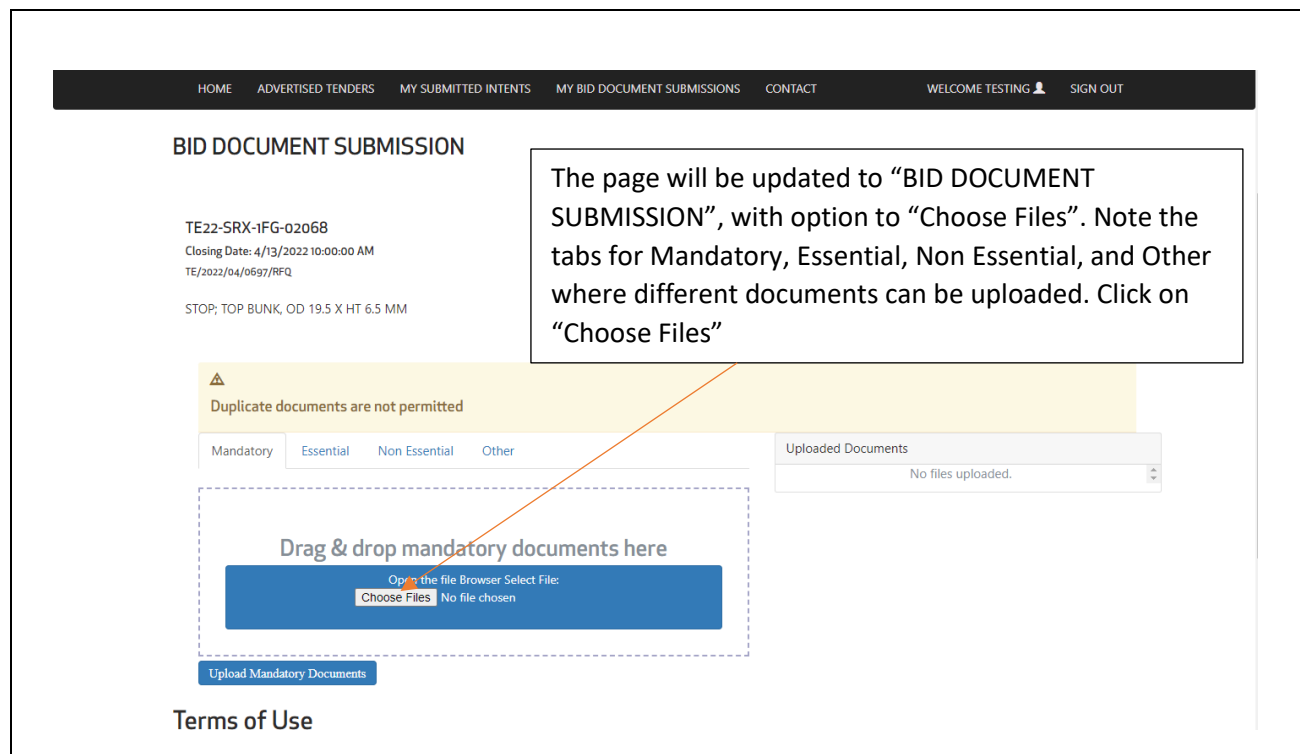
Briefing Session

Closing Date
4/13/2022 10:00:00 AM

Attachments

- 2.14 Standard Terms and Conditions of Contract f
- 2.18 Supplier Integrity Pact_April 2020_v1.pdf
- 2.19 Non Disclosure Agreement_April 2020_v1.pdf
- 2.9 Request for Quotations TE22-SRX-1FG-02068.

When the bidder has completed the returnable documents and scanned to their PC/Laptop, the next step would be to upload the documents. Click on "Submit Tender Documents"



HOME ADVERTISED TENDERS MY SUBMITTED INTENTS MY BID DOCUMENT SUBMISSIONS CONTACT WELCOME TESTING SIGN OUT

BID DOCUMENT SUBMISSION

TE22-SRX-1FG-02068
Closing Date: 4/13/2022 10:00:00 AM
TE/2022/04/0697/RFQ

STOP; TOP BUNK, OD 19.5 X HT 6.5 MM

Choose Files

Uploaded Documents
No files uploaded.

Drag & drop mandatory documents here

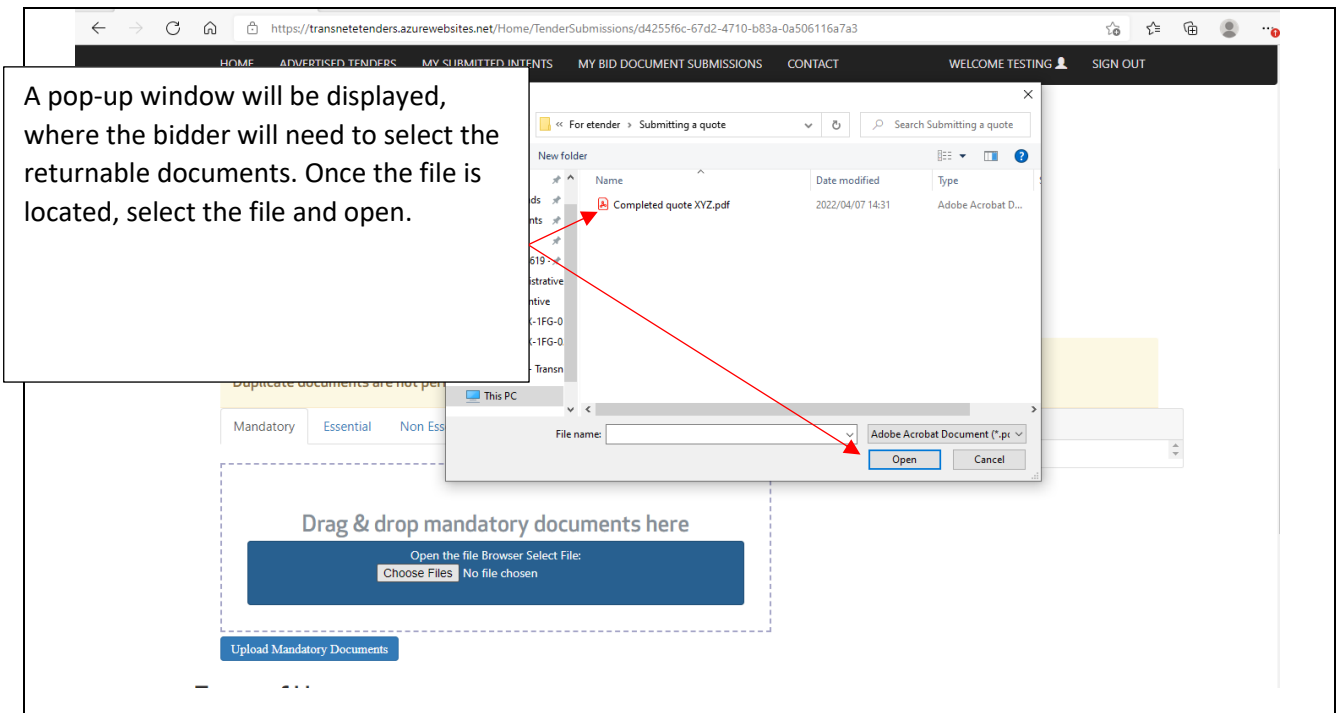
Open the file Browser Select File:
Choose Files No file chosen

Upload Mandatory Documents

Terms of Use

The page will be updated to "BID DOCUMENT SUBMISSION", with option to "Choose Files". Note the tabs for Mandatory, Essential, Non Essential, and Other where different documents can be uploaded. Click on "Choose Files"

A pop-up window will be displayed, where the bidder will need to select the returnable documents. Once the file is located, select the file and open.



BID DOCUMENT SUBMISSION

TE22-SRX-1FG-02068
 Closing Date: 4/13/2022 10:00:00 AM
 TE/2022/04/0697/RFQ
 STOP; TOP BUNK, OD 19.5 X HT 6.5 MM

Duplicate documents are not permitted

Mandatory Essential Non Essential Other

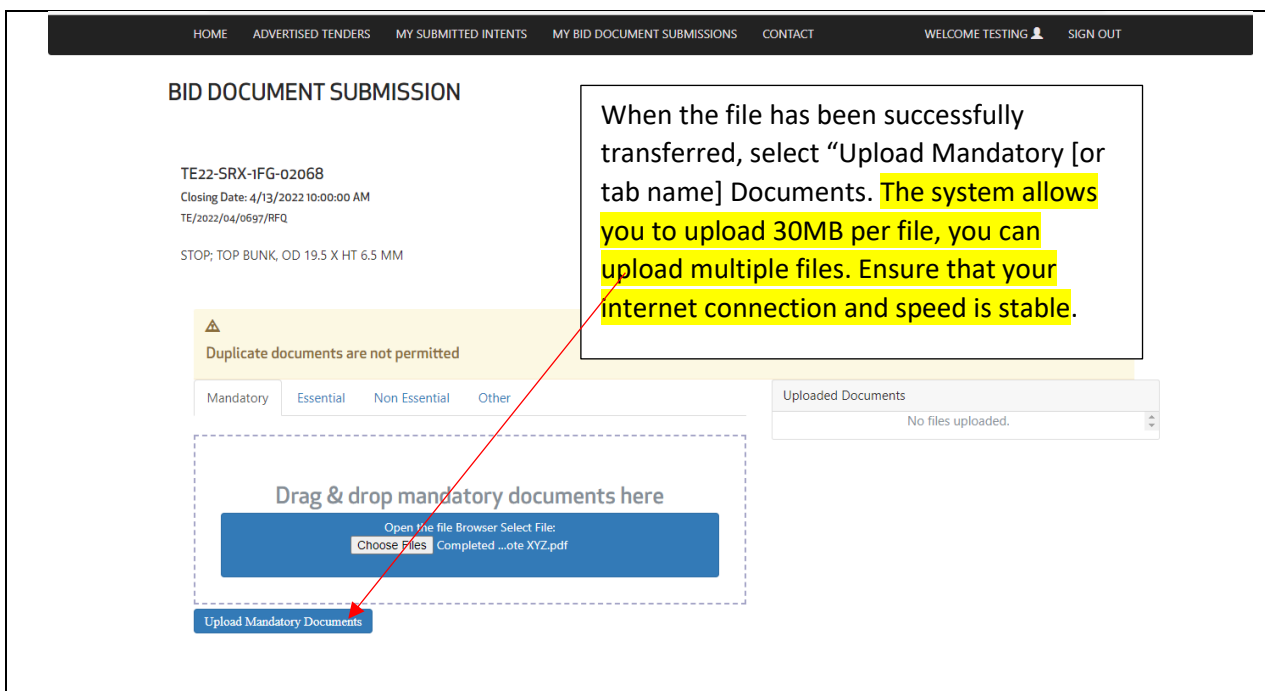
Drag & drop mandatory documents here

Open the file Browser Select File:
 Choose Files Completed ...ote XYZ.pdf

Upload Mandatory Documents

Uploaded Documents
 No files uploaded.

When the file has been successfully transferred, select "Upload Mandatory [or tab name] Documents. The system allows you to upload 30MB per file, you can upload multiple files. Ensure that your internet connection and speed is stable.



The "Uploaded Documents" section will be updated to confirm that the document was uploaded, then click on "Submit Bid"

TE/2022/04/0697/RFQ
STOP; TOP BUNK, OD 19.5 X HT 6.5 MM

⚠ Duplicate documents are not permitted

Mandatory Essential Non Essential Other

Drag & drop mandatory documents here

Open the file Browser Select File:
Choose Files No file chosen

Upload Mandatory Documents

Uploaded Documents

Completed quote XYZ.pdf - Document Type: Mandatory Documents

Delete

Terms of Use

Information provided by the bidder through this portal constitute a binding bid submission/response and a commitment to deliver Transnet requirements. Kindly note that the system automatically ranks the outcome of the evaluation of price and BBBEE scoring based on the information provided. Pricing and BBBEE information provided is the responsibility of the bidder to ensure correctness and Transnet will only consider your latest submission made before the closing date.

← Back

→ Submit Bid

HOME ADVERTISED TENDERS MY SUBMITTED INTENTS **MY BID DOCUMENT SUBMISSIONS** CONTACT WELCOME TESTING SIGN OUT

MY BID DOCUMENT SUBMISSIONS

Show 10 entries Search:

Tender Reference Number	Name	Date Submitted	Company Name	View Details
TE/2022/04/0697/RFQ	TE22-SRX-1FG-02068	4/8/2022 8:59:06 AM	Transnet Engineering	View Details

Showing 1 to 1 of 1 entries

Previous 1 Next

The screen will progress to "MY BID DOCUMENT SUBMISSION", where the "View Details" can be selected to confirm that all required information is submitted correctly.