



TRANSNET NATIONAL PORTS AUTHORITY  
 TENDER NUMBER: TNPA/2023/08/0003/38950/RFP  
 DESCRIPTION OF THE WORKS: DCT BERTHS 203 TO 205 RECONSTRUCTION, DEEPENING AND LENGTHENING

## TRANSNET SOC LIMITED

**TENDER NUMBER: TNPA/2023/08/0003/38950/RFP**  
**DCT BERTHS 203 TO 205 RECONSTRUCTION, DEEPENING AND LENGTHENING**

**ADDENDUM NO. 002**

**DATED 12 February 2024**

The following information is furnished in addition to, in amplification and substitution of, matters contained in the tender documents issued in respect of the abovementioned work.

### 1. Extension of Closing Date

**a) Cover Page:**

**CLOSING DATE : ~~29/03/2024~~ 19/04/2024**

**b) T1.1 Tender Notice and Invitation to Tender**

<b>CLOSING DATE</b>	<b>16:00 on <del>29/03/2024</del> 19 April 2024</b> Tenderers must ensure that tenders are uploaded timeously onto the system. <b>If a tender is late, it will not be accepted for consideration.</b>
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**c) T1.2 Tender Data**

C.2.15	The closing time for submission of tender offers is: Time: <b>16:00</b> on the <del>29/03/2024</del> <b>19 April 2024</b> Location: The Transnet e-Tender Submission Portal: ( <a href="https://transnetetenders.azurewebsites.net">https://transnetetenders.azurewebsites.net</a> ); <b><u>NO LATE TENDERS WILL BE ACCEPTED</u></b>
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**d) T2.2-10 Intention to Tender**

Transnet National Port Authority	TNPA/2023/08/0003/38950/RFP
Attention	Shani Evans / Jo-Ann McCann
e-mail	<a href="mailto:berthdeepeningkzn@transnet.net">berthdeepeningkzn@transnet.net</a> <a href="mailto:tenderenquiriespdu@transnet.net">tenderenquiriespdu@transnet.net</a>
	Closing Date: <del>28 February 2024</del> <b>19 April 2024</b> <b>(16h00)</b>

## 2. Selected Specific Goals

Selected Specific Goal	Number of points allocated (90/10)
B-BBEE Status Level of Contributor 1 or 2.	3.00
<del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality.</del>	<del>3.00</del>
The promotion of supplier development through subcontracting / JV a minimum of 30% of the value of the contract to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people.	<del>4.00</del> 7.00
Non-Compliant and/or B-BBEE Level 3-8 contributors.	0.00

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

Specific Goals	Acceptable Evidence
B-BBEE Status Level of Contributor 1 or 2	<ul style="list-style-type: none"> <li>Valid B-BBEE Certificate / Sworn-Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline.</li> </ul>
<del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality.</del>	<del>• CIPC – Valid 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.</del>
The promotion of supplier development through subcontracting a minimum/ Joint Venture of 30% of the value of the contract to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people.	<ul style="list-style-type: none"> <li>Sub-contracting agreements</li> <li>Subcontractors CIPC – Valid B-BBEE Certificate / Sworn- Affidavit / Valid B-BBEE Certificate as per DTIC guideline.</li> <li>Declaration / Joint Venture Agreement (in case of JV, a consolidated scorecard</li> </ul>

	will be accepted).
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DISCRIPTION	POINTS
PRICE	90
B-BBEE Status Level of Contributor 1 or 2 = 3 points. <del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality = 3 points.</del> The promotion of supplier development through subcontracting a minimum/ Joint Venture of 30% of the value of the contract to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people = <b>7</b> points. Non-Compliant and/or B-BBEE Level 3-8 contributors = 0 points.	10
Total points for Price and Specific Goals must not exceed	100

## T2.2-24 Compulsory Enterprise questionnaire

### General Conditions

Specific Goals have been amended on page 3 of 16 as above.

### 3. C1.2 Contract Data

51.4	The <i>interest rate</i> is	<b>the prime lending rate of the Rand Merchant Bank of South Africa. <del>Standard Bank.</del></b>
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#### X13 Performance bond

X13.1	The amount of the performance bond is	<b><del>10%</del> 5% of the total of the Prices including VAT</b>
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#### X16 Retention

The retention free amount is	<b>Nil</b>
The retention percentage is	<b><del>5%</del> 10% on all payments certified</b>

#### X18 Limitation of liability

X18.1 The *Contractor's* liability to the *Employer* for indirect or consequential loss is limited to: **Total of the Prices Nil**

~~**Z1.2** A Retention Guarantee of 5% of the total of the Prices shall be provided, in lieu of Option X16 under the Contract, within four (4) weeks of the Contract Date. The Retention Guarantee shall be reproduced exactly as per the attached Pro Forma Retention Guarantee and shall be subject to the conditions stated under clause Z1.1 above.~~

**4. C3 Works Information**

- a. Revised drawings for the crane modification  
 1785-CO-010-C-DWG-0003-01 TOC  
 1785-CO-010-C-DWG-0003-02 TOC
- b. Dredging Phasing for Off-shore Dumping Updated 27-11-2023.
- c. Replace revised page 16 of 131 of the Works Information.
- d. DCT Pier 2 Dredging Services xyz files attached.

**5. C2 Activity Schedule**

Replace revised activity schedule – Rev D

**6. T2.2-05 - Evaluation Schedule - Environmental Management Plan - Rev01**

Changes to the scoring are highlighted in red.

**7. T2.2-06 Evaluation Schedule – Health and Safety**

- a) Health and Safety Requirements - Rev01 to be replaced in it's entirety.
- b) Contractor Safety Questionnaire - Rev01 to be replaced in it's entirety.

**8. T2.2-03 Evaluation Schedule - Programme**

A soft copy of the proposed programme is to be submitted by 16h00 on the 04/04/2024 **date TBA** via the one drive link provided.

A one drive link will be made available to all tenderers who submitted a tender on or before the tender closing date to submit a soft copy of their programme on or before the 04/04/2024 **date TBA**.



TRANSNET NATIONAL PORTS AUTHORITY  
TENDER NUMBER: TNPA/2023/08/0003/38950/RFP  
DESCRIPTION OF THE WORKS: DCT BERTHS 203 TO 205 RECONSTRUCTION, DEEPENING AND LENGTHENING

**WITNESSES:**

1. \_\_\_\_\_

2. \_\_\_\_\_

**WITNESSES:**

1. J. McCann J. McCann

2. M. Ngwenya M. Ngwenya

\_\_\_\_\_  
**TENDERER / CONTRACTOR**

J. Mokheseng  
**TRANSNET SOC LIMITED**



TRANSNET NATIONAL PORTS AUTHORITY  
TENDER NUMBER: TNPA/2023/08/0003/38950/RFP  
DESCRIPTION OF THE WORKS: DCT BERTHS 203 TO 205 RECONSTRUCTION, DEEPENING AND LENGTHENING

FROM : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DATE : \_\_\_\_\_

**TO : Transnet National Ports Authority  
237 Mahatma Gandhi Road  
Durban  
4000  
(Attention: Mrs J McCann - Email. tenderenquiriespdu@transnet.net)**

Dear Sirs / Madam

**TENDER NUMBER: TNPA/2023/08/0003/38950/RFP  
DESCRIPTION OF THE WORKS: DCT BERTHS 203 TO 205 RECONSTRUCTION,  
DEEPENING AND LENGTHENING**

Receipt of **Addendum No. 002** dated **12 February 2024** is hereby acknowledged.

Kind regards

\_\_\_\_\_  
**TENDERER**

**NOTE:** This acknowledgement must be signed and returned to this office on or before closing date of tender.

Ref: TNPA/2023/08/0003/38950/RFP

**Transnet National Ports Authority**  
an Operating Division **TRANSNET SOC LTD**  
[Registration Number 1990/000900/30]

## **REQUEST FOR PROPOSAL (RFP)**

### **FOR THE: DURBAN CONTAINER TERMINAL (DCT) BERTHS 203 TO 205 RECONSTRUCTION, DEEPENING AND LENGTHENING**

<b>RFP NUMBER</b>	<b>: TNPA/2023/08/0003/38950/RFP</b>
<b>ISSUE DATE</b>	<b>: 01/12/2023</b>
<b>COMPULSORY BRIEFING SESSION 1</b>	<b>: 29/01/2024</b>
<b>COMPULSORY BRIEFING SESSION 2</b>	<b>: 30/01/2024</b>
<b>CLOSING DATE</b>	<b>: <del>29/03/2024</del> 19/04/2024</b>
<b>CLOSING TIME</b>	<b>: 16h00</b>
<b>TENDER VALIDITY PERIOD</b>	<b>: 12 Weeks</b>

## **Contents**

### **Number    Heading**

#### **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

#### **The Contract**

##### **Part C1: Agreements and Contract Data**

- C1.1        Form of Offer and Acceptance
- C1.2        Contract Data (Parts 1 & 2)
- C1.3        Form of Securities

##### **Part C2: Pricing Data**

- C2.1        Pricing Instructions
- C2.2        Activity Schedule

##### **Part C3: Scope of Work**

- C3.1        Works Information

##### **Part C4: Site Information**

- C4.1        Site Information

## 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].

<b>DESCRIPTION</b>	<b>Durban Container Terminal (DCT) Berths 203 to 205 Reconstruction, Deepening and Lengthening</b>								
<b>TENDER DOWNLOADING</b>	<p>This Tender may be downloaded directly from the National Treasury eTender Publication Portal at <a href="http://www.etenders.gov.za">www.etenders.gov.za</a> and the Transnet website at <a href="https://transnetetenders.azurewebsites.net">https://transnetetenders.azurewebsites.net</a> (please use <b>Google Chrome to access Transnet link</b>) <b>FREE OF CHARGE.</b></p>								
<b>COMPULSORY TENDER CLARIFICATION MEETING</b>	<p>A Compulsory Tender Clarification Meeting will be conducted at <del>Transnet Engineering Main Building, 2<sup>nd</sup> Floor, 311 Solomon Mahlangu Street, Durban (Next to Barons)</del> <b>N-Shed, Port of Durban, Entrance No.3 (as per the attached directions)</b> on <b>29/01/2024 &amp; 30/01/2024 starting at 10h00</b>, for a period of ± 3 (three) hours. [Tenderers to provide own transportation and accommodation].</p> <p>The Compulsory Tender Clarification Meeting will start punctually, and information will not be repeated for the benefit of Tenderers arriving late.</p> <p>The Agenda will be as follows:</p> <p><b>Day 1 – 29/01/2024</b></p> <table border="1" data-bbox="480 1744 1343 1982"> <tr> <td data-bbox="486 1753 683 1809">10h00-11h00</td> <td data-bbox="689 1753 1337 1809">Signing of attendance register</td> </tr> <tr> <td data-bbox="486 1818 683 1874">11h00-13h00</td> <td data-bbox="689 1818 1337 1874">Tender Clarification : Technical and Commercial</td> </tr> <tr> <td data-bbox="486 1883 683 1939">13h00-14h00</td> <td data-bbox="689 1883 1337 1939">Break</td> </tr> <tr> <td data-bbox="486 1948 683 1982">14h00-15h00</td> <td data-bbox="689 1948 1337 1982">Specific Goals</td> </tr> </table>	10h00-11h00	Signing of attendance register	11h00-13h00	Tender Clarification : Technical and Commercial	13h00-14h00	Break	14h00-15h00	Specific Goals
10h00-11h00	Signing of attendance register								
11h00-13h00	Tender Clarification : Technical and Commercial								
13h00-14h00	Break								
14h00-15h00	Specific Goals								

**Day 2 – 30/01/2024 (Tenderers will meet at the Day 1 venue before going to site)**

09h00-10h00	Signing of attendance register
10h00-12h00	Safety Induction and Site Walk
12h00-13h00	Break
13h00-15h00	Questions & Answers

**Note: All the sessions are compulsory to all Tenderers, and Tenderers must ensure that all Qualified / Experienced Personnel attend these sessions.**

1.1 Tenderers failing to attend the **compulsory Clarification meetings (office and site) on both Day 1 and Day 2** will be disqualified.

1.2 The briefing session will start punctually at **10h00 on day 1 (one) and at 10h00 on day 2 (two)** and information will not be repeated for the benefit of Tenderers arriving late.

1.3 Tenderers are required to wear safety shoes, glasses, long sleeve shirts and long pants, high visibility vests and hard hats. Tenderers without the Personal Protective Equipment (PPE) as stated will not be allowed on the site walk.

1.4 Tenderers and their employees, visitors, clients and customers entering Transnet Offices, Depots, Workshops and Stores will undergo breathalyser testing and inductions.

1.5 All forms of firearms are prohibited on Transnet properties and premises.

1.6 The relevant persons attending the meeting must ensure that their original identity documents, passports or drivers' licence are on them for inspection at the access control gates.

	<p>1.7 Transnet will not be held responsible if any Tenderer who did not attend the full duration of the compulsory briefing sessions and subsequently feels disadvantaged as a result thereof.</p> <p>1.8 Tenderers to ensure that the Certificates of Attendance (T2.2-01 – <b>Day 1</b>) and (T2.2-01 – <b>Day 2</b>) are signed at the end of each session including the attendance register as this will serve as proof of attendance.</p> <p><b>Tenderers are required to bring these Returnable Schedules T2.2-01 (Day 1 and Day 2) to the Compulsory Tender Clarification Meeting to be signed by the Employer’s Representative.</b></p>
<b>CLOSING DATE</b>	<p><b>16:00 on <del>29/03/2024</del> 19 April 2024</b></p> <p>Tenderers must ensure that tenders are uploaded timeously onto the system. <b>If a tender is late, it will not be accepted for consideration.</b></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.**
- 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;
- 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 on T2.2-23], [**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.*
- 4.13. 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.



## 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](http://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 <b>Transnet SOC Ltd (Reg No. 1990/000900/30)</b>
C.1.2	The tender documents issued by the <i>Employer</i> comprise: <b>Part T: The Tender</b> Part T1: Tendering procedures Part T2 : Returnable documents <b>Part C: The contract</b> Part C1: Agreements and contract data
	T1.1 Tender notice and invitation to tender T1.2 Tender data T2.1 List of returnable documents T2.2 Returnable schedules 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
	Part C3: Scope of work	C3.1 Works Information
	Part C4: Site information	C4.1 Site information
C.1.4	The Employer's agent is:	Procurement Officer / Procurement Manager
	Name:	Shani Evans / Jo-Ann McCann
	Address:	237 Mahatma Gandhi Road Durban 4000
	Tel No.	031 361 1273 / 031 361 1272
	E – mail	tenderenquiriespdu@transnet.net
C.2.1	Only those tenderers who satisfy the following eligibility criteria are eligible to submit tenders:	
	<b>1. Stage One - Eligibility with regards to attendance at the compulsory clarification meeting:</b>	
	An authorised representative of the tendering entity or a representative of a tendering entity that intends to form a Joint Venture (JV) must attend both the compulsory clarification meetings in terms C2.7	
	<b>2. Stage Two - Eligibility in terms of the Construction Industry Development Board:</b>	
	a) Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, designation of <b>9CE</b> class of construction work, are eligible to have their tenders evaluated.	
	b) Joint Venture (JV)	
	Joint ventures are eligible to submit tenders subject to the following:	
	1. every member of the joint venture is registered with the CIDB;	



2. the lead partner has a contractor grading designation of not lower than one level below the required class of construction works under consideration and possesses the required recognition status; and
3. the combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a Contractor grading designation determined in accordance with the sum tendered for a **9CE** class of construction work or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations

The tenderer shall provide a certified copy of its signed joint venture agreement

***Any tenderer that fails to meet the stipulated eligibility criteria will be regarded as an unacceptable tender.***

- 3. Stage Three - 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 **65** 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 functionality criteria will be regarded as an unacceptable tender.***

#### **4. Stage Four – Price and Specific Goals**

- 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 – Day 1 and T2.2-01 Day 2 – certificate of attendance** signed off by the *Employer's* authorised representative.

C.2.12 No alternative tender offers will be considered.

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

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

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C.2.15 The closing time for submission of tender offers is:  
Time: **16:00** on the ~~29/03/2024~~ **19 April 2024**  
Location: The Transnet e-Tender Submission Portal:  
(<https://transnetetenders.azurewebsites.net>);

**NO LATE TENDERS WILL BE ACCEPTED**

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C.2.16 The tender offer validity period is **12 weeks** after the 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 governance approval processes has not been finalised within the validity period.

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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 line with the code of good practice, together with the tender;
3. A valid CIDB certificate in the correct designated grading;
4. Proof of registration on the Central Supplier Database;
5. 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

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C3.11 The minimum number of evaluation points for functionality is: **65**

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:

Functionality criteria	Sub-criteria	Sub-Criteria Points	Maximum number of points
<b>T.2.2-03 Programme</b>	<p>Ability to execute the works in terms of the <i>Employer's</i> requirements and within the required timeframe indicating, in a logical sequence, the order and timing of the construction that will take place in order to Provide the <i>works</i> clearly indicating the capacity &amp; capability to achieve the dates stated in the Contract Data.</p> <ol style="list-style-type: none"> <li>1. Caisson Manufacture &amp; Launching <b>(10%)</b></li> <li>2. Caisson Towing &amp; Placement <b>(10%)</b></li> <li>3. Dredging &amp; Reclamation <b>(10%)</b></li> <li>4. Scour Protection &amp; Revetment <b>(10%)</b></li> </ol>	6	<b>20</b>



	<p>5. Rigid Inclusions &amp; Vibro Compaction <b>(10%)</b></p> <p>6. Sheet &amp; Landside Piling <b>(10%)</b></p> <p>7. Cope Construction, Quay Furniture &amp; Paving <b>(10%)</b></p> <p>8. Constraints, Interfacing &amp; interdependencies within the overall project approach as demonstrated in, but not limited to, the programme, Work Breakdown Structure and associated critical scope elements as well as any other part of the Works Information <b>(30%)</b></p> <hr/> <p>Dates when the <i>Contractor will</i> need access to any part of the Site; submission &amp; approval process &amp; timing for Health &amp; Safety Files, Environmental Files and Quality Files.</p> <hr/> <p>The <i>Contractor</i> indicates how he plans in achieving the following dates and clearly demonstrates them on the schedule by complying with Clause 31.2 of the NEC ECC – Initiates <i>starting date, access dates, Key Dates, planned Completion, Sectional Completion Dates &amp; Completion Date.</i> In addition, the Programme must</p>	<p>2</p> <hr/> <p>2</p>	
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	<p>clearly demonstrate adequate provisions for Time Risk Allowance (TRA). Time Risk Allowances are not float, are owned by the Tenderer, can be included in the activity duration and illustrated in the schedule in a code field or as an attachment.</p> <hr/> <p>The Programme must be Resource Loaded, including, People, Equipment, Plant and Materials &amp; Other Resources, but excluding Cost). In addition, the Programme must be aligned to the Activity Schedule.</p> <ol style="list-style-type: none"> <li>1. Caisson Manufacture &amp; Launching <b>(10%)</b></li> <li>2. Caisson Towing &amp; Placement <b>(10%)</b></li> <li>3. Dredging &amp; Reclamation <b>(10%)</b></li> <li>4. Scour Protection &amp; Revetment <b>(10%)</b></li> <li>5. Rigid Inclusions &amp; Vibro Compaction <b>(10%)</b></li> <li>6. Sheet &amp; Landside Piling <b>(10%)</b></li> <li>7. Cope Construction, Quay Furniture &amp; Paving <b>(10%)</b></li> <li>8. Constraints, Interfacing &amp; interdependencies within the overall project approach as demonstrated in, but not limited to, the programme, Work</li> </ol>	2	
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	<p>1) Detailed sequence of activities (construction/fabrication)</p> <p>2) Include all procedure/code specifications</p> <p>3) Include all intervention points (i.e. hold, witness, verify)</p> <p>4) Include all Verification documentation/Field inspection checklists</p> <p>5) Include all relevant signatories (i.e. Contractor, AIA, Transnet)</p> <p>The following Quality Control Plans:</p> <ul style="list-style-type: none"> <li>• Caisson Manufacture</li> <li>• Caisson Towing and Placement</li> <li>• Sheet Piling, Landside Piling</li> <li>• Cope Construction, quay furniture and paving (including crane rail welding and installation)</li> <li>• Scour Protection and Revetment</li> <li>• Rigid inclusions and Vibro-compaction</li> </ul> <p>A <b>Quality Policy</b> shall include the following key policy elements:</p>	1	
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	<ul style="list-style-type: none"> <li>1) is appropriate to the purpose and context of the organization and supports its strategic direction,</li> <li>2) provides framework for setting quality objectives,</li> <li>3) includes a commitment to satisfy applicable requirements,</li> <li>4) includes a commitment to continual improvement of QMS and</li> <li>5) is communicated and understood within the organization</li> </ul>		
<b>T2.2-05 Environmental Management Plan</b>	<p>The Signed Company Environmental Policy</p> <p>Proof of Environmental management Training</p> <p>Environmental Management Plan</p>	<p>1</p> <p>5</p> <p>9</p>	<b>15</b>
<b>T2.2-06 Health and Safety Requirements</b>	<p>Safety, Health &amp; Environmental Policy signed by the Chief Executive Officer</p> <p>Roles &amp; Responsibilities</p> <p>Overview of the Baseline Risk Assessment</p> <p><del>Safety Questionnaire</del> <b>Project Specific Health and Safety Plan</b></p> <p>Cost Breakdown Sheet</p>	<p>1</p> <p>2</p> <p>4</p> <p>6</p> <p>2</p>	<b>15</b>
<b>T2.2-07 Previous Experience</b>	<p><u>Caisson manufacture or similar</u> Concrete construction using slip-form such as construction of silos, chimneys,</p>	3	<b>20</b>



	<p>lift cores etc.; and any complex concrete and rigging work such as incremental launch bridges etc.</p> <p><u>Caisson towing and placement or similar:</u> Installation and operation of a syncrolift. Placement of underwater stone bed. Towing and placing of caissons, counterfort units etc. in marine conditions.</p> <p><u>Dredging and reclamation:</u> Dredging in marine conditions. Controlled placement of dredged material for reclamation, sandbank extension or beach nourishment. Precision dredging for foundation trenches.</p> <p><u>Scour protection and revetment:</u> Controlled placement of scour rock protection or revetment in marine conditions</p> <p><u>Rigid inclusions and vibro-compaction:</u> Piling off a barge in marine conditions. Ground improvement by rigid inclusions, stone columns and vibro –compaction.</p>	<p></p> <p>3</p> <p>4</p> <p>1</p> <p>3</p>	
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	<p><u>Sheet piling and landside piling:</u> Installation of combination of tubular pile and sheet pile walls. Landside piling such as CFA, Driven Cast Insitu etc. Relevant experience should include manufacture and installation of straight-webbed sheet pile sections to form cofferdams or cellular caissons.</p> <p><u>Cope construction, quay furniture and paving:</u> Concrete construction for quay wall elements and installation of quay furniture. Concrete and asphalt paving including earthworks / layer works. Installation of services such as water, sewer, stormwater etc.</p>	4	
<b>T2.2-08 Approach Paper</b>	<p>Approach is clearly articulated and based on the Works Information.</p> <p>Demonstrate a clear understanding of the project objectives.</p> <p>Demonstrate <i>Contractor's</i> management approach to risks and constraints.</p>	8	<b>20</b>
		4	
		8	



	<p><b>The below weighting applies to all three sub-criteria above.</b></p> <table border="1"> <thead> <tr> <th data-bbox="862 347 1299 422"><b>Elements</b></th> <th data-bbox="1299 347 1588 422"><b>Weight</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="862 422 1299 566">Caisson Manufacture and Launching</td> <td data-bbox="1299 422 1588 566"><b>15%</b></td> </tr> <tr> <td data-bbox="862 566 1299 662">Caisson Towing and Placement</td> <td data-bbox="1299 566 1588 662"><b>15%</b></td> </tr> <tr> <td data-bbox="862 662 1299 821">Dredging and reclamation including sandbank extension</td> <td data-bbox="1299 662 1588 821"><b>15%</b></td> </tr> <tr> <td data-bbox="862 821 1299 917">Scour protection and revetment</td> <td data-bbox="1299 821 1588 917"><b>10%</b></td> </tr> <tr> <td data-bbox="862 917 1299 1077">Rigid inclusions and vibro-compaction</td> <td data-bbox="1299 917 1588 1077"><b>15%</b></td> </tr> <tr> <td data-bbox="862 1077 1299 1236">Sheet piling, cellular caissons and landside piling</td> <td data-bbox="1299 1077 1588 1236"><b>15%</b></td> </tr> <tr> <td data-bbox="862 1236 1299 1380">Cope Construction, quay furniture and paving</td> <td data-bbox="1299 1236 1588 1380"><b>15%</b></td> </tr> </tbody> </table>	<b>Elements</b>	<b>Weight</b>	Caisson Manufacture and Launching	<b>15%</b>	Caisson Towing and Placement	<b>15%</b>	Dredging and reclamation including sandbank extension	<b>15%</b>	Scour protection and revetment	<b>10%</b>	Rigid inclusions and vibro-compaction	<b>15%</b>	Sheet piling, cellular caissons and landside piling	<b>15%</b>	Cope Construction, quay furniture and paving	<b>15%</b>		
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<p><b>T2.2-09 Proposed Organisation and Staffing</b></p>	<p>The tenderer should compile a comprehensive and detailed organogram that shows the structure and composition of their entire team i.e. the main disciplines involved including the key staff/expert you have identified in the Contract Data Part two and identify the required legal appointments, and the proposed technical and support staff and site staff.</p> <p>The organogram should also include all major sub-<i>Contractors</i> and suppliers, also showing the structure and composition of their entire team.</p> <p>The roles and responsibilities of each key staff member/expert should be set out as job descriptions. In the case of an association / joint venture / consortium, it should, indicate how the duties and responsibilities are to be shared.</p>		<p><b>5</b></p>
<p><b>Maximum possible score for Functionality</b></p>			<p><b>100</b></p>



Functionality shall be scored independently by not less than 3 (three) evaluators and averaged in accordance with the following schedules:

- T2.2-03 Programme
- T2.2-04 Quality Plan
- T2.2-05 Environmental Management Plan
- T2.2-06 Health and Safety Requirements
- T2.2-07 Previous Experience
- T2.2-08 Approach Paper
- T2.2-09 Proposed Organisation and Staffing

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, unless scored collectively. (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.**

C3.11 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	65

Evaluation Criteria	Final Weighted Scores
Price and Total Cost of Ownership	90
Specific goals - Scorecard	10
<b>TOTAL SCORE:</b>	<b>100</b>

Up to 100 minus  $W_1$  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, 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
<del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality</del>	<del>3.00</del>
The promotion of supplier development through subcontracting / JV a minimum of 30% of the value of the contract to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people	<del>4.00</del> 7.00
Non-Compliant and/or B-BBEE Level 3-8 contributors	0.00

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

Specific Goals	Acceptable Evidence
B-BBEE Status Level of Contributor 1 or 2	<ul style="list-style-type: none"> <li>Valid B-BBEE Certificate / Sworn-Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline.</li> </ul>
<del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality.</del>	<ul style="list-style-type: none"> <li><del>CIPC – Valid 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.</del></li> </ul>
The promotion of supplier development through subcontracting a minimum/ Joint Venture of 30% of the value of the contract to /with EMEs and/or QSEs	<ul style="list-style-type: none"> <li>Sub-contracting agreements</li> <li>Subcontractors CIPC – Valid B-BBEE Certificate / Sworn- Affidavit / Valid B-BBEE Certificate as per DTIC guideline.</li> </ul>



51% owned by black people, youth, women, or disabled people.	<ul style="list-style-type: none"> <li>Declaration / Joint Venture Agreement (in case of JV, a consolidated scorecard will be accepted).</li> </ul>
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The maximum points for this bid are allocated as follows:

<b>DISCRIPTION</b>	<b>POINTS</b>
PRICE	90
B-BBEE Status Level of Contributor 1 or 2 = 3 points.  <del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality = 3 points.</del>  The promotion of supplier development through subcontracting a minimum/ Joint Venture of 30% of the value of the contract to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people = 7 points.  Non-Compliant and/or B-BBEE Level 3-8 contributors = 0 points.	10
Total points for Price and Specific Goals must not exceed	100

**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.3.13 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

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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;

the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
- b) is not undergoing a process of being restricted by Transnet or other state institution that Transnet may be aware of,
- c) 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,
- d) has the legal capacity to enter into the contract,
- e) 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,
- f) complies with the legal requirements, if any, stated in the tender data and
- g) is able, in the option of the employer to perform the contract free of conflicts of interest.

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

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## **T2.2-03: Evaluation Schedule - Programme**

**Note to tenderers: For Evaluation Purposes, The Programme is to be Submitted in the following manner.**

- 1) A PDF copy of the Programme is to be attached to this schedule.**
- 2) A soft copy of the proposed programme is to be submitted by 16h00 on ~~the 04/04/2024~~ **date TBA** via the one drive link provided.**
- 3) Only MS project or Primavera format will be accepted. No other format will be accepted.**
- 4) A one drive link will be made available to all tenderers who submitted a tender on or before the tender closing date to submit a soft copy of their programme on or before the ~~04/04/2024~~ **date TBA**.**
- 5) Failure to submit a soft copy of the proposed programme will result in the tenderers programme not being evaluated and the tenderer will score zero (0) out of twenty (20) for programme.**

### Programme

The Tenderer details the proposed programme below or makes reference to his proposed programme and attaches it to this schedule. The Tenderer's attention is drawn to core clause 31 of the NEC3 Engineering and Construction contract regarding the items to be shown on a programme.

The tenderer shall provide the proposed programme in both hard and soft copy (XER) format. Both hard and soft copy submissions are to comply with the format and evaluation criteria as detailed below.

The tenderer shall provide the proposed programme complying with, but not limited to, the minimum format requirements, as follows:

- Activity ID
- Activity Description
- Original Duration
- Start and Finish Dates
- Time Risk Allowances
- Float
- Programme to clearly demonstrate alignment with activities in the Tenderer's Activity Schedule under C2.2, resources as contained in the Tenderer's Approach Paper submission under T.2.2-08 and List of Equipment and Other Resources submission under T.2.2-17 by

means of clearly demonstrating the following in this regard:

- Activity Description & Unique Activity Reference/ID - Activities as contained in the Tenderer's Activity Schedule submission under C2.2 to be allocated a unique activity reference/ID and to be assigned to associated activities in the Tenderer's programme model contained under T2.2-03. In other words, in accordance with the *conditions of contract*, the Tenderer must provide information which shows how each activity on the Activity Schedule relates to the operations on the Tenderer's programme.
- Resource Description & Unique Resource Reference/ID – Resources to be allocated a unique resource reference/ID, and assigned to associated activities in the Tenderer's programme contained under T2.2-03, in accordance with the Tenderer's proposed resource allocation and usage strategy in order to Provide the Works. The Tenderer's programme must be aligned with the resources as contained in the Tenderer's Approach Paper submission under T.2.2-08 and List of Equipment and Other Resources submission under T.2.2-17. In addition, resource assignments/allocations & usage/productivity histograms/profiles/spreads to be annexed to the Tenderer's hard copy programme submission in order to support the aforementioned stipulations.

The tenderer shall provide the proposed programme showing but not limited to the following:

- Ability to execute the *works* in terms of the *Employer's* requirements and within the required timeframe indicating, in a logical sequence, the order and timing of the construction that will take place in order to Provide the Works clearly indicating the capacity & capability to achieve the dates stated in the Contract Data.
- Dates when the *Contractor* will need *access* to any part of the Site; submission & approval process & timing for Health & Safety Files, Environmental Files and Quality Files.
- The *Contractor* indicates how he plans in achieving the following dates and clearly demonstrates them on the schedule by complying with Clause 31.2 of the NEC ECC – Initiates *starting date, access dates, key dates*, planned Completion, Sectional Completion Dates & Completion Date. In addition, the Programme must clearly demonstrate adequate provisions for Time Risk Allowance (TRA). Time Risk Allowances are not float, are owned by the Tenderer, can be included in the activity duration and illustrated in the schedule in a code field or as an attachment.
- The Programme must be Resource Loaded, including, People, Equipment, Plant and Materials & Other Resources, but excluding Cost). In addition, the Programme must be aligned to the Activity Schedule.
- The Programme must clearly support and demonstrate alignment to the Approach Paper as contained under T.2.2-08. In addition, annexed to the Programme, a basis of schedule document is required, stipulating, but not limited to, underlying assumptions, conditions, constraints, and approach to Providing the Works as detailed in the Programme.

The scoring of the Programme will be as follows:



Score (20 Points)	Evaluation Criteria				
	<p>Ability to execute the works in terms of the <i>Employer's</i> requirements and within the required timeframe indicating, in a logical sequence, the order and timing of the construction that will take place in order to Provide the <i>Works</i> clearly indicating the capacity &amp; capability to achieve the dates stated in the Contract Data. The Programme must be in Microsoft Project/ Primavera software.</p> <p>1. Work breakdown structure in logical order,</p> <p>2. Durations and dates for all work is shown,</p> <p>3. Key milestones and critical paths in MS project/primavera format and Basis of schedule aligned with the programme.</p> <p><b>1. Caisson Manufacture &amp; Launching (10%)</b>  <b>2. Caisson Towing &amp; Placement (10%)</b>  <b>3. Dredging &amp; Reclamation (10%)</b>  <b>4. Scour Protection &amp; Revetment (10%)</b>  <b>5. Rigid Inclusions &amp; Vibro Compaction (10%)</b>  <b>6. Sheet &amp; Landside Piling (10%)</b></p>	<p>Dates when the <i>Contractor</i> will need access to any part of the Site; submission &amp; approval process &amp; timing for Health &amp; Safety Files, Environmental Files and Quality Files.</p>	<p>The <i>Contractor</i> indicates how he plans in achieving the following dates and clearly demonstrates them on the schedule by complying with Clause 31.2 of the NEC ECC – Initiates <i>starting date, access dates, Key Dates, planned Completion, Sectional Completion Dates &amp; Completion Date.</i> In addition, the Programme must clearly demonstrate adequate provisions for Time Risk Allowance (TRA). Time Risk Allowances are not float, are owned by the Tenderer, can be included in the activity duration and illustrated in the schedule in a code field or as an attachment.</p>	<p>The Programme must be Resource Loaded, including, People, Equipment, Plant and Materials &amp; Other Resources, but excluding Cost). In addition, the Programme must be aligned to the Activity Schedule.</p> <p><b>1. Caisson Manufacture &amp; Launching (10%)</b>  <b>2. Caisson Towing &amp; Placement (10%)</b>  <b>3. Dredging &amp; Reclamation (10%)</b>  <b>4. Scour Protection &amp; Revetment (10%)</b>  <b>5. Rigid Inclusions &amp; Vibro Compaction (10%)</b>  <b>6. Sheet &amp; Landside Piling (10%)</b>  <b>7. Cope Construction, Quay Furniture &amp; Paving (10%)</b>  <b>8. Constraints, Interfacing &amp; interdependencies within the overall project approach as demonstrated in, but not limited to, the programme, Work Breakdown Structure and associated critical scope elements as well as</b></p>	<p>The Programme must clearly support and demonstrate alignment to the approach paper as contained under T.2.2-08. In addition, annexed to the Programme, a basis of schedule document is required, stipulating, but not limited to, underlying assumptions, conditions, constraints, and approach to Providing the <i>works</i> as detailed in the Programme.</p>



	<p><b>7. Cope Construction, Quay Furniture &amp; Paving (10%)</b></p> <p><b>8. Constraints, Interfacing &amp; interdependencies within the overall project approach as demonstrated in, but not limited to, the programme, Work Breakdown Structure and associated critical scope elements as well as any other part of the Works Information (30%)</b></p>			<p><b>any other part of the Works Information (30%)</b></p>	
	<b>6</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>8</b>
<b>Score 0</b>	The tenderer has submitted no information.				
<b>Score 20</b>	<p>The programme is not acceptable as it will not satisfy project objectives or requirements. The tenderer has misunderstood the Scope of Work and does not deal with the critical aspects of the overall programme/WBS element in question as a subset of the overall project.</p>	<ul style="list-style-type: none"> <li>▪ The tenderer has not addressed critical access requirements.</li> <li>▪ The tenderer has not allowed timing for approval processes for SHEQ documentation.</li> </ul>	<p>The tenderer has not addressed critical access requirements. The tenderer has not allowed timing for approval processes for SHEQ documentation (1 week).</p>	<ul style="list-style-type: none"> <li>▪ The tenderer has addressed some resource loading requirements; submission is incomplete, and contains insufficient detail which renders it unrealistic/unachievable</li> <li>▪ No alignment between programme and activity schedule.</li> </ul>	<ul style="list-style-type: none"> <li>▪ No alignment between programme and approach paper.</li> <li>▪ The basis of schedule documentation contains insufficient detail, critical errors and omissions exist as such does not fully support the programme model.</li> <li>▪ Submission does not contain the minimum requirements as stipulated.</li> <li>▪ No alignment between basis of schedule</li> </ul>



					documentation and the programme.
<b>Score 40</b>	The programme is generic, not practical and unrealistic, therefore is unlikely to satisfy project objectives or <i>Employer's</i> requirements regarding the WBS element in question as a subset of the overall project. The tenderer has misunderstood certain aspects of the Scope of the Works and does not deal with the critical aspects of the project/WBS element in question as a subset of the overall project.	<ul style="list-style-type: none"> <li>The tenderer has addressed critical but not all access requirements.</li> <li>The tenderer has not allowed sufficient timing for approval processes for SHEQ documentation.</li> </ul>	<p>The tenderer has addressed critical but not all access requirements such as:</p> <p>a) A site access date.</p> <p>The tenderer has not allowed sufficient timing for approval processes for SHEQ documentation (1 week).</p>	<ul style="list-style-type: none"> <li>The tenderer has addressed some but not all resource loading requirements; submission is incomplete and/or contains critical errors and omissions which renders it unrealistic/unachievable.</li> <li>No alignment between programme and activity schedule.</li> </ul>	<ul style="list-style-type: none"> <li>Critical errors and or omissions in alignment between programme and approach paper.</li> <li>The basis of schedule documentation contains sufficient detail, but critical errors exist as such does not fully support the programme model.</li> <li>Submission contains the minimum requirements as stipulated.</li> <li>No alignment between basis of schedule documentation and the programme.</li> </ul>
<b>Score 60</b>	<ul style="list-style-type: none"> <li>The overall programme/ WBS element in question addresses specific project objectives.</li> <li>The programme/WBS element in question is complete and sufficiently decomposed, as demonstrated in the overall project WBS which fully encompasses project/WBS element scope as detailed but not limited to the Works Information and Engineering</li> </ul>	<ul style="list-style-type: none"> <li>The tenderer has adequately addressed all access requirements.</li> <li>The tenderer has not allowed sufficient timing for approval processes for SHEQ documentation.</li> </ul>	<p>The tenderer has adequately addressed all access requirements such as:</p> <p>a. A site access date  b. Sectional completion  c. Project handover  d. Completion dates</p> <p>The tenderer has not allowed sufficient timing for approval processes for SHEQ documentation (1 week).</p>	<ul style="list-style-type: none"> <li>The tenderer has addressed all resource loading requirements as such submission is complete, accurate and contains sufficient detail which renders it realistic/achievable.</li> <li>Programme and activity schedule are not aligned.</li> </ul>	<ul style="list-style-type: none"> <li>Minor errors and or omissions in alignment between programme and approach paper.</li> <li>The basis of schedule documentation contains sufficient detail; minor errors still exist however critical aspects of programme model are adequately</li> </ul>



	<p>Specification;</p> <ul style="list-style-type: none"> <li>▪ The programme/WBS element in question is not adequately predictive in that it contains minor errors or omissions in critical path/s.</li> <li>▪ Activity duration estimates demonstrate the fact that the programme does not present an accurate model of project risk.</li> <li>▪ The programme/WBS element in question contains minor errors and omissions in logic (i.e. horizontal and vertical traceability).</li> <li>▪ The programme/WBS element complies with some but not all the stipulations of NEC ECC Clause 31.2.</li> <li>▪ The programme/WBS element adequately demonstrates the sequence, methodology, resource allocations, and underlying approach to provision of the <i>works</i>, in line with the requirements of the <i>Works Information</i> and Engineering Specification, as such adequately deals with the critical characteristics of overall project execution.</li> <li>▪ The programme does not demonstrate the Contractor's understanding of the critical success factors and risks associated with provision of the <i>works</i>.</li> </ul>				<p>substantiated.</p> <ul style="list-style-type: none"> <li>▪ Submission contains the minimum requirements as stipulated.</li> <li>▪ Minor errors and or omissions exist in alignment of the basis of schedule documentation and the programme model.</li> </ul>
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<p style="text-align: center;"><b>Score 80</b></p>	<ul style="list-style-type: none"> <li>▪ The overall programme/WBS element in question addresses specific project objectives.</li> <li>▪ The programme/WBS element in question is complete and sufficiently decomposed, as demonstrated in the overall project WBS which fully encompasses project/WBS element scope as detailed but not limited to the Works Information and Engineering Specification;</li> <li>▪ The programme/WBS element in question is transparent in the demonstration of its basis;</li> <li>▪ The programme/WBS element in question is predictive in that it provides meaningful critical path/s and an accurate/realistic model of project risk, the latter as demonstrated in activity duration estimates;</li> <li>▪ The programme/WBS element in question contains logic that is horizontally and vertically traceable;</li> <li>▪ The programme/WBS element in question is usable, as it allows for effective management decision making and action.</li> <li>▪ The programme/WBS element complies with the stipulations of NEC ECC</li> </ul>	<ul style="list-style-type: none"> <li>▪ The tenderer has adequately addressed all access requirements.</li> <li>▪ The tenderer has allowed sufficient timing for approval processes for SHEQ documentation.</li> </ul>	<p>The tenderer has adequately addressed all access requirements such as:</p> <ol style="list-style-type: none"> <li>a. A site access date</li> <li>b. Sectional completion</li> <li>c. Project handover</li> <li>d. Completion dates</li> </ol> <p>The tenderer has allowed sufficient timing for approval processes for SHEQ documentation (2 weeks).</p>	<ul style="list-style-type: none"> <li>▪ The tenderer has addressed all resource loading requirements as such submission is complete, accurate and contains sufficient detail which renders it realistic/achievable.</li> <li>▪ Programme and activity schedule are aligned.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Programme and approach paper are fully aligned and submission contains no critical errors or omissions.</li> <li>▪ The basis of schedule documentation contains sufficient detail, no critical errors or omissions and as such fully supports the programme model.</li> <li>▪ Submission contains the minimum requirements as stipulated.</li> <li>▪ Basis of schedule documentation and the programme are fully aligned.</li> </ul>
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	<p>Clause 31.2.</p> <ul style="list-style-type: none"> <li>The programme/WBS element adequately demonstrates the sequence, methodology, resource allocations, critical success factors, risks and underlying approach to provision of the <i>works</i>, in line with the requirements of the Works Information and Engineering Specification, as such adequately deals with the critical characteristics of overall project execution.</li> </ul>				
<p><b>Score 100</b></p>	<p>Besides meeting the above "80" rating, the important issues are approached in an innovative and efficient way.</p>	<p>Besides meeting the "80" rating, the tenderer has exceeded the required expectations.</p>	<p>The tenderer has adequately addressed all access requirements such as:</p> <ol style="list-style-type: none"> <li>A site access date</li> <li>Sectional completion</li> <li>Project handover</li> <li>Completion dates</li> <li>Change over dates and final testing and commissioning.</li> </ol> <p>The tenderer has allowed sufficient timing for approval processes for SHEQ documentation (2 weeks). Project phases clearly defined. Schedule showing durations of activities, Major Milestone, Planned Start Date &amp; Planned Completion Date</p>	<p>Besides meeting the "80" rating, the tenderer has exceeded the required expectations.</p>	<p>Besides meeting the "80" rating, the tenderer has exceeded the required expectations.</p>

## T2.2-05: Evaluation Schedule: Environmental Management Plan

The Tenderer must review the following documents (found under the List of Annexures in the Works Information section of the Tender Document) in preparation to meeting the environmental requirements. These documents are:

- a.) Transnet Integrated Management Systems (TIMS) Policy Commitment Statement
- b.) Standard Operating Procedure for Construction Environmental Management (009-TCC-CLO-SUS-11386).
- c.) Minimum Environmental Standards for Construction (009-TCC-CLO-SUS-GDL-11385.26); and
- d. Project Environmental Specifications (**PES**) as contained in *i-xiii* listed below:
  - i) *The Environmental Authorisation (EA) for The Deepening, Lengthening and Widening of Berths 203 to 205 at Pier 2 Container Terminal, Port of Durban Ref: 14/12/16/3/3/2/275 (dated 21/01/2015).*
  - ii) *The Appeal decision by the Minister of Environmental Affairs Ref: LSA 141396 (dated 9/09/2015).*
  - iii) *Amendment of Environmental Authorisation (EA) issued on 21 January 2015 for the Proposed Deepening, Lengthening and Widening of Berths 203 to 205 at Pier 2 Container Terminal, Port of Durban Ref: 14/12/16/3/3/2/275/AM1)*
  - iv) *Appeal decision of the amended EA Ref: LSA 206175 (dated 08/07/2022)*
  - v) *The Final EIA Report Deepening, Lengthening and Widening of Berth 203 to 205, Pier 2, Container Terminal and Port of Durban (dated 5/08/2014).*
  - vi) *Updated Environmental Management Programme (EMPr) for The Deepening, Lengthening and Widening of Berths 203 to 205 at Pier 2 Container Terminal, Port of Durban ( pending approval*
  - vii) *Final Updated Central Sandbank Mitigation Plan (pending approval ).*
  - viii) *Final Integrated Waste Management Approach (dated January 2016).*
  - ix) *Disposal At Sea Permit (pending approval).*
  - x) *Offshore Sand Winning Permit (dated 02 July 2018).*
  - xi) *Sandwinning Amendment Approval (dated 26/09/2018).*
  - xii) *Sandwinning Environmental Management Programme.*
  - xiii) *Amended Coastal Water Discharge Permit (Ref No.: 2016/007/KZN/Transnet Port Terminal-LID).*
  - xiv) *Updated Climate Change Adaptation Monitoring plan (pending approval).*

Project Environmental Specification (PES) extends to TNPA minimum standards as contained in the following documents:

- *TNPA list of approved waste services contractors*
- *TNPA Asbestos Management Plan*

Project Environmental Specification (PES) includes eThekweni bylaws such as:

- Schedule Trades and Occupations Bylaws
- Interim Code relating to fire prevention and flammable liquids and substances

The tenderer must provide, as part of the tender submission the following documents viz;.

1. The tenderer must provide a project specific Environmental Management Plan (EMP). This plan must be clear on the following:
  - a. A description of the environmental impacts that need to be avoided, managed and mitigated, a description of how those impacts will be avoided, managed and mitigated (impact management actions);
  - b. The method and frequency of monitoring the implementation of the impact management actions;
  - c. A description of how the environmental incidents will be managed on site;
  - d. An indication of the roles and responsibilities in the implementation of the impact management actions;
  - e. Records to be kept; and
  - f. How non-conformance/non-compliance will be dealt with.
2. The tenderer must provide an **environmental policy** signed by Top Management that displays the following key components, namely:
  - Commitment to comply with all applicable environmental laws, regulations and standards;
  - Commitment to pollution prevention;
  - Emphasize the organisation's commitment to continual improvement in environmental performance;
  - Address the sustainable use of resources/ resource conservation; and
  - Is communicated to all employees working for or on behalf of the Contractor



**If the Policy is not dated and or unsigned a score of 20 will be allocated.**

The tenderer must provide proof of Environmental Management Training received to date for the following persons, viz, Environmental Manager, Environmental Officers and Environmental Assistants as per the training matrix provided in the works information. Certified copies of relevant training must be submitted with the tender document.

**Attached submissions to this schedule:**

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**The scoring of the Tenderer's Environmental Management Plan will be as follows: (as per 1-5 above)**

	<b>The Signed Company Environmental Policy</b>	<b>Proof of Environmental management Training</b>	<b>Environmental Management Plan</b>
<b>Points</b>	<b>1</b>	<b>5</b>	<b>9</b>
<b>(Score 0)</b>	The Tenderer has submitted no information to determine a score.	The Tenderer has submitted no information to determine a score.	The Tenderer has submitted no information to determine a score.
<b>(Score 20)</b>	Policy addresses 1 of the required elements listed under 2 above and or the Policy is undated nor unsigned.	One (1) of the <i>Contractor's</i> key personnel as per the Works Information has attended 1 course.	EMP only responds to ≤2 of the items listed under 1 above.
<b>(Score 40)</b>	Policy addresses 2 of the required elements listed under 2 above.	Two (2) of the <i>Contractor's</i> key personnel as per the Works Information has attended 1 course each.	EMP only responds to 3 of the items listed under 1 above.
<b>(Score 60)</b>	Policy addresses 3 of the required elements listed under 2 above.	Three (3) of the <i>Contractor's</i> key personnel as per the Works Information has attended 2 courses each.	EMP only responds to 4 of the items listed under 1 above.
<b>(Score 80)</b>	Policy addresses 4 of the required elements listed under 2 above.	Four (4) of the <i>Contractor's</i> key personnel as per the Works Information has attended 2 courses each.	EMP only responds to 5 of the items listed under 1 above.



<b>(Score 100)</b>	Policy addresses 5 of the required elements listed under 2 above.	Environmental Training received will meet the <i>Employer's</i> requirements.  Each of the 5 <i>Contractor's</i> key personnel as per the Works Information has attended all the courses.	EMP responds to all the items listed under 1 above.
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**T2.2-06: Evaluation Schedule: Health and Safety Requirement**

Submit the following documents as a minimum with your tender:

1. Safety, Health & Environmental Policy signed by the Chief Executive Officer. List the five elements -
  - 1.1. Commitment to Safety, prevention of pollution,
  - 1.2. Continual improvement,
  - 1.3. Compliance to legal requirements, appropriate to the nature of contractor’s activities,
  - 1.4. Hold management accountable for development of the safety systems.
  - 1.5. Include objectives and targets.
  
2. Roles & Responsibilities, such as S16.2 CEO, CR8.1 Construction Manager, CR8.5 Safety officer, CR8.7 Construction Supervisor, CR9.1 Risk Assessor, CR 12 Temporary works designer and 17.1 SHE Reps, etc. as per the Occupational health and safety Act 85 of 1993.
  
3. Project specific Baseline Risk Assessment (RA), indicating major activities of the project namely:
  - 3.1. Caisson manufacture and launching.
  - 3.2. Rigid inclusions and vibro-compaction (soft piling),
  - 3.3. Caisson towing and placement.
  - 3.4. Dredging and reclamation.
  - 3.5. Scour protection and revetment.
  - 3.6. Sheet piling.
  - 3.7. Cope construction, Quay furniture and paving.
  
4. Project health and safety plan which comprises of, but not limited to the following minimum elements
  - 4.1. Legal and site specific requirements
  - 4.2. Competency, training and awareness.
  - 4.3. Subcontractor selection.
  - 4.4. Incident management
  - 4.5. Communication, Participation and Consultation
  - 4.6. Operational Control
  - 4.7. Performance assessment and auditing
  
5. Evidence that the Principal Contractor have made adequate provisions for the cost of Health & Safety "Activity Schedule": CR 3(5) (b)(iii) read with CR 5(1)(g)
  
6. Complete and return with tender documentation the Contractor Safety Questionnaire included to this Evaluation Schedule as a returnable

**Attached submissions to this schedule:**

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**The scoring of the Tenderer’s Health and safety requirements will be as follows:**

<b>Points (15)</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2</b>
	<p><b>Policy (State points allocated)</b></p> <ol style="list-style-type: none"> <li>1. Commitment to Safety, prevention of pollution,</li> <li>2. Continual improvement,</li> <li>3. Compliance to legal requirements, appropriate to the nature of contractor’s activities,</li> <li>4. Hold management accountable for development of the safety systems,</li> <li>5. Include objectives and targets.</li> </ol>	<p><b>Roles &amp; Responsibilities</b></p> <ol style="list-style-type: none"> <li>1. S16.2 CEO</li> <li>2. 8.1 Construction Manager -SACPCMP registration as Pr. Construction Manager,</li> <li>3. 8.5 SACPMP Registered Construction Health and Safety officer,</li> <li>4. 8.7 Construction Supervisor,</li> <li>5. 9.1 Risk Assessor,</li> <li>6. CR 12 Temporary works designer and</li> <li>7. 17.1 SHE Rep as per the Occupational health and safety Act 85 of 1993</li> </ol>	<p><b>Baseline risk assessment</b></p> <p>Indicating major activities of the project namely:</p> <ol style="list-style-type: none"> <li>1. Caisson manufacture and launching.</li> <li>2. Rigid inclusions and vibro-compaction (soft piling),</li> <li>3. Caisson towing and placement.</li> <li>4. Dredging and reclamation.</li> <li>5. Scour protection and revetment.</li> <li>6. Sheet piling.</li> <li>7. Cope construction, Quay furniture and paving.</li> </ol>	<p><b>Project Specific Health and Safety Plan</b> in accordance with Project Health and Safety Specification. The Health and Safety Plan must comprise of, but not limited to the following minimum elements:</p> <ol style="list-style-type: none"> <li>1. Legal and site specific requirements</li> <li>2. Competency, training and awareness.</li> <li>3. Subcontractor selection.</li> <li>4. Incident management</li> <li>5. Communication, Participation and Consultation</li> <li>6. Operational Control</li> <li>7. Performance assessment and auditing</li> </ol>	<p><b>TNPA Estimate Health and Safety Cost Breakdown</b></p> <p>Submission of completed cost breakdown sheet covering health and safety budget allocation.</p>
<b>Score 0</b>	The Tenderer has submitted no information or an unsigned policy to determine a score.				



<p><b>Score 20</b></p>	<p><b>1 of the 5</b> key policy components are recognized and meet the <i>Employer's</i> requirement and it is signed by the Chief Executive Officer.</p>	<p><b>1 to 2 of 7 Roles and Responsibilities</b> in accordance with the Works Information, the Occupational Health and Safety Act as per Construction Regulations and TNPA Health and Safety Specification.</p>	<p><b>1 to 2 of 7</b> major activities in the project are addressed in the baseline risk assessment.</p>	<p><b>1 to 2 of 7</b> Above elements of Health and Safety plan are addressed.</p>	<p>Health and safety budget submitted in the returnable schedule is inadequate to achieve the required standard of service, <b>0% to 1%</b> of the tender value.</p>
<p><b>Score 40</b></p>	<p><b>2 of the 5</b> key policy components are recognized and meet the <i>Employer's</i> requirement and it is signed by the Chief Executive Officer.</p>	<p><b>3 to 4 of 7 Roles and Responsibilities</b> are in accordance with the Works Information, the Occupational Health and Safety Act as per Construction Regulations and TNPA Health and Safety Specification.</p>	<p><b>3 to 4 of 7</b> major activities in the project are addressed in the baseline risk assessment.</p>	<p><b>3 to 4 of 7</b> Above elements of Health and Safety plan are addressed.</p>	<p>Health and safety Budget submitted in the returnable schedule will not be met employers objectives, <b>above 1 but less or equals to 2%</b> of the tender value.</p>
<p><b>Score 60</b></p>	<p><b>3 of the 5</b> key policy components are recognized and meet the <i>Employer's</i> requirements and it is signed by the Chief Executive Officer.</p>	<p><b>5 of 7 Roles and Responsibilities</b> are in accordance with the Works Information, the Occupational Health and Safety Act as per Construction Regulations and TNPA Health and Safety Specification.</p>	<p><b>5 of 7</b> major activities in the project are addressed in the baseline risk assessment.</p>	<p><b>5 of 7</b> Above elements of Health and Safety plan are addressed.</p>	<p>Health and safety Budget submitted in the returnable schedule will met employers objectives, <b>above 2 but less or equals to 3%</b> of the tender value.</p>



<p><b>Score 80</b></p>	<p><b>4 of the 5</b> key policy components are recognized and meets the <i>Employer's</i> requirements and it is signed by the Chief Executive Officer.</p>	<p><b>6 of 7 Roles and Responsibilities</b> are in accordance with the Works Information, the Occupational Health and Safety Act as per Construction Regulations and TNPA Health and Safety Specification.</p>	<p><b>6 of 7</b> major activities in the project are addressed in the baseline risk assessment.</p>	<p><b>From 6 of 7</b> Above elements of Health and Safety plan are addressed.</p>	<p>Health and safety Budget submitted in the returnable schedule will met employers objectives, <b>above 3 but less or equals to 4%</b> of the tender value.</p>
<p><b>Score 100</b></p>	<p><b>All 5 key</b> policy components are recognized and meets the <i>Employer's</i> requirements and it is signed by the Chief Executive Officer.</p>	<p><b>All 7 Roles and Responsibilities</b> are in accordance with the Works Information, the Occupational Health and Safety Act as per Construction Regulations and TNPA Health and Safety Specification.</p>	<p><b>All 7 Major Activities</b> in the project are addressed in the baseline risk assessment.</p>	<p><b>All 7</b> Above elements of Health and Safety plan are addressed.</p>	<p>Health and safety Budget submitted in the returnable schedule will met employers objectives, <b>above 4%</b> of the tender value.</p>



## Contractor 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 workday cases									
	Number of lost time injury cases									
	Number of fatal injuries									
	Total recordable frequency									
	Lost time injury frequency									
	Number of worker manhours									
	Action taken to prevent re-occurrence									
	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 Workday 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 a Valid Letter of Good Standing for confirmation)						Yes		No	
	<b>2. Citations</b>									
	2A	Has your company been cited, charged or prosecuted under Health, Safety and/or Environmental Legislation in the last 5 years? If yes, provide details:						Yes		No



## Contractor Safety Questionnaire

2B	Has your company been cited, charged or prosecuted under the above Legislation in another Country, Region or State? If yes, provide details:			Yes		No		
<b>3. Citations</b>								
	Does your company have a Certificate of Recognition?				Yes		No	
	If yes, what is the	Certificate No:		Issue Date:				
<b>4. Safety Program</b>								
4A	Submit your company written health and safety plan? Submit for provide a copy for review							
4C	Does your company Health and safety plan contain the following elements							
		Yes	No		Yes	No		
	Health and Safety Policy			Competence, Training and Awareness				
	Incident Management, reporting and Investigation			Emergency Preparedness/Response				
	Recordkeeping & Statistics			Hazard Assessment and Risk Management and training				
	Reference to Legislation			Permit to Work				
	Site Establishment and Rehabilitation			Safe Work Procedures and Safe operating procedures				
	Roles and Responsibilities			Workplace Inspections				
	Alcohol, Drugs and Other Intoxicating Substances			Occupational Hygiene and Covid19				
	Personal Protective Equipment			Measuring and Monitoring				
	Waste Management			Communication, Participation and Consultation				
	Work Program or look ahead plan			Signs and Notices				
4C	Submit your company pocket safety booklet for field distribution?							
<b>5. Training Program</b>								
5A	Attach orientation program for new hire employees? include a course outline. Does it include any of the following:							
		Yes	No		Yes	No		
	General Rules & Regulations			Confined Space Entry				
	Emergency Reporting			Trenching & Excavation				
	Injury Reporting			Signs & Barricades				
	Legislation			Dangerous Holes & Openings				
	Right to Refuse Work			Rigging & Cranes				
	Personal Protective Equipment			Mobile Vehicles				
	Emergency Procedures			Preventative Maintenance				



## Contractor Safety Questionnaire

	Project Safety Committee			Hand & Power Tools		
	Housekeeping			Fire Prevention & Protection		
	Ladders & Scaffolds			Electrical Safety		
	Fall Arrest Standards			Compressed Gas Cylinders		
	Aerial Work Platforms			Weather Extremes		
5B	Submit a program for training newly hired or promoted supervisors? Tenderer must submit an outline for evaluation which include instruction on the following:					
		Yes	No		Yes	No
	Employer Responsibilities			Safety Communication		
	Employee Responsibilities			First Aid/Medical Procedures		
	Due Diligence			New Worker Training		
	Safety Leadership			Environmental Requirements		
	Work Refusals			Hazard Assessment		
	Inspection Processes			Pre-Job Safety Instruction		
	Emergency Procedures			Drug & Alcohol Policy		
	Incident Investigation			Progressive Disciplinary Policy		
	Safe Work Procedures			Safe Work Practices		
	Safety Meetings			Notification Requirements		
<b>6. Safety Activities</b>						
6A	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?					
6B	Do you hold site safety meetings for field employees? If Yes, how often?	Yes	No	Daily	Weekly	Biweekly
6C	Do you hold site meetings where safety is addressed with management and field supervisors?	Yes	No	Weekly	Biweekly	Monthly
6D	Is pre-job safety instruction provided before to each new task?	Yes	No			
	Is the process documented?	Yes	No			
	Who leads the discussion?					
6E	Do you have a hazard assessment process?	Yes	No			
	Are hazard assessments documented?	Yes	No			
	If yes, how are hazard assessments communicated and implemented on each project?					
	Who is responsible for leading the hazard assessment process?					



## Contractor Safety Questionnaire

6F	Submit your company policies and procedures for environmental protection, spill clean-up, reporting, waste disposal, and recycling as part of the Health & Safety Program?					
6G	How does your company measure its H&S success? Attach separate sheet to explain					
<b>7. Safety Stewardship</b>						
7A	Are incident reports and report summaries sent to the following and how often?	Yes	No	Monthly	Quarterly	Annually
	Project/Site Manager					
	Vice President/Managing Director					
	Safety Director/Manager					
	President/Chief Executive Officer					
7B	How are incident records and summaries kept? How often are they reported internally?	Yes	No	Monthly	Quarterly	Annually
	Incidents totalled for the entire company					
	Incidents totalled by project					
	Subtotalled by construction manager					
	Subtotalled by construction supervisor					
7C	How are the costs of individual incidents kept? How often are they reported internally?	Yes	No	Monthly	Quarterly	Annually
	Costs totalled for the entire company					
	Costs totalled by project					
	Subtotalled by construction manager					
	Subtotalled by foreman/general foreman					
7D	Does your company track non-injury incidents?	Yes	No	Monthly	Quarterly	Annually
	Near Miss					
	Property Damage					
	Fire					
	Security					
	Environmental					
<b>8. Personnel</b>						
List key health and safety officers planned for this project. Attach resume (CV and qualification).						
Name		Position / Title		Designation		
				Category	SACPCMP Number	
<b>9. References</b>						
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		Telephone Number		



## T2.2-10: Intention to Tender

To be returned within 5 days after receipt

Transnet National Port Authority	TNPA/2023/08/0003/38950/RFP
Attention	Shani Evans / Jo-Ann McCann
e-mail	<a href="mailto:berthdeepeningkzn@transnet.net">berthdeepeningkzn@transnet.net</a> <a href="mailto:tenderenquiriespdu@transnet.net">tenderenquiriespdu@transnet.net</a>
	Closing Date: <del>28 February 2024</del> <b>19 April 2024</b>
	<b>(16h00)</b>

**For: The** Provision of Professional Service provider for Stakeholder and communications Services

**Check**

**We: Do wish to tender** for the work and shall return our tender by **Yes**  **No**   
the due date above

Any clarifications are to be mailed to: shani.kleyn@transnet.net, and all responses will be communicated to all tenderers in writing via e-mail.

Company: .....

Contact: .....

Phone No: .....

e-mail Address: .....

REASON FOR NOT TENDERING:

---

---

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

## T2.2-24 : 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 SBD5 must be completed for each tender and be attached as a tender requirement. (where applicable)** The National Industrial Participation Programme ("NIPP") is applicable to all government procurement contracts that have an imported content, whereby the imported content is equal to or exceeding US\$ 10 million or other currency equivalent to US\$ 10 million.

**Section 7: The attached SBD4 must be completed for each tender and be attached as a tender requirement.**

**Section 8: The attached SBD6.1 must be completed for each tender and be attached as a requirement.**

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**

**PREFERENCE 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 as per the table of evidence in paragraph 4.1 below.

**1. GENERAL CONDITIONS**

1.1 The following preference point systems are applicable to all bids:

- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included); and

1.2 The value of this bid is estimated to be above R50 000 000 (all applicable taxes included) and therefore the 90/10 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;
- (b) B-BBEE Status Level of Contribution; and
- (c) Any other specific goal determined in the Transnet preferential procurement policy

1.4 The maximum points for this bid are allocated as follows:

<u>DISCRIPTION</u>	<u>POINTS</u>
PRICE	90
<p>B-BBEE Status Level of Contributor 1 or 2 = 3 points.</p> <p><del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality = 3 points.</del></p> <p>The promotion of supplier development through sub-contracting or JV for a minimum of 30% of the value of the contract to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people = <b>7</b> points.</p>	10

Non-Compliant and/or B-BBEE Level 3-8 contributors = 0 points.	
Total points for Price and Specific Goals must not exceed	100

- 1.5 Failure on the part of a bidder to submit proof of evidence required for any of the specific goals together with the bid will be interpreted to mean that preference points for that specific goal 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-BBEE status level certificate issued by an authorised body or person;
  - 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.

- (l) **Specific goals**” means targeted advancement areas or categories of persons or groups either previously disadvantaged or falling within the scope of the Reconstruction and Development Programme identified by Transnet to be given preference in allocation of procurement contracts in line with section 2(1) of the PPPFA.

### 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

- Ps = Points scored for comparative price of bid under consideration  
Pt = Comparative price of bid under consideration  
Pmin = Comparative price of lowest acceptable bid

### 4. EVIDENCE REQUIRED FOR CLAIMING SPECIFIC GOALS

- 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 Status Level of Contributor 1 or 2	Valid B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline.
<del>The promotion of enterprises located in eThekweni Municipality for work to be done or services to be rendered in that Municipality</del>	<del>CIPC—Valid 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.</del>
The promotion of supplier development through sub-contracting or JV for a minimum of 30% of the value of the contract	<ul style="list-style-type: none"> <li>• Sub-contracting agreements</li> <li>• Subcontractors CIPC – Valid B-BBEE Certificate / Sworn-Affidavit / Valid B-BBEE Certificate as per DTIC guideline.</li> </ul>

to /with EMEs and/or QSEs 51% owned by black people, youth, women, or disabled people	Declaration / Joint Venture Agreement (in case of JV, a consolidated scorecard will be accepted)
---	--

4.2 The table below indicates the required proof of B-BBEE status depending on the category of enterprises:

<b>Enterprise</b>	<b>B-BBEE Certificate &amp; Sworn Affidavit</b>
<b>Large</b>	Certificate issued by SANAS accredited verification agency
<b>QSE</b>	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 <a href="http://www.dti.gov.za/economic_empowerment/bee_codes.jsp">www.dti.gov.za/economic_empowerment/bee_codes.jsp</a> .]
<b>EME<sup>1</sup></b>	Sworn Affidavit signed by the authorised EME representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership Certificate issued by CIPC (formerly CIPRO) confirming annual turnover and black ownership Certificate issued by SANAS accredited verification agency only if the EME is being measured on the QSE scorecard

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

<sup>1</sup> 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.



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)

(Points claimed in respect of paragraph 6.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

**7. SUB-CONTRACTING**

7.1 Will any portion of the contract be sub-contracted?

(*Tick applicable box*)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE.

(*Tick applicable box*)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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**8. DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name of company/firm:.....

8.2 VAT registration number:.....



8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....  
.....  
.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional Supplier/Service provider
- Other Suppliers/Service providers, 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 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 (SBD 4)**

### **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 interest<sup>2</sup> 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 the enterprise, in table below.

<b>Full Name</b>	<b>Identity Number</b>	<b>Name of State institution</b>

---

<sup>2</sup> 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.

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. However, communication between partners in a joint venture or consortium<sup>3</sup> 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

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<sup>3</sup> 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.

- 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

## SBD 5

This document must be signed and submitted together with your bid

# THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME

## INTRODUCTION

The National Industrial Participation (NIP) Programme, which is applicable to all government procurement contracts that have an imported content, became effective on the 1 September 1996. The NIP policy and guidelines were fully endorsed by Cabinet on 30 April 1997. In terms of the Cabinet decision, all state and parastatal purchases / lease contracts (for goods, works and services) entered into after this date, are subject to the NIP requirements. NIP is obligatory and therefore must be complied with. The Industrial Participation Secretariat (IPS) of the Department of Trade and Industry (DTI) is charged with the responsibility of administering the programme.

## 1 PILLARS OF THE PROGRAMME

1.1 The NIP obligation is benchmarked on the imported content of the contract. Any contract having an imported content equal to or exceeding US\$ 10 million or other currency equivalent to US\$ 10 million will have a NIP obligation. This threshold of US\$ 10 million can be reached as follows:

(a) Any single contract with imported content exceeding US\$10 million.

or

(b) Multiple contracts for the same goods, works or services each with imported content exceeding US\$3 million awarded to one seller over a 2 year period which in total exceeds US\$10 million.

or

(c) A contract with a renewable option clause, where should the option be

exercised the total value of the imported content will exceed US\$10 million.

or

- (d) Multiple suppliers of the same goods, works or services under the same contract, where the value of the imported content of each allocation is equal to or exceeds US\$ 3 million worth of goods, works or services to the same government institution, which in total over a two (2) year period exceeds US\$10 million.

- 1.2 The NIP obligation applicable to suppliers in respect of sub-paragraphs 1.1 (a) to 1.1 (c) above will amount to 30 % of the imported content whilst suppliers in respect of paragraph 1.1 (d) shall incur 30% of the total NIP obligation on a *pro-rata* basis.
- 1.3 To satisfy the NIP obligation, the DTI would negotiate and conclude agreements such as investments, joint ventures, sub-contracting, licensee production, export promotion, sourcing arrangements and research and development (R&D) with partners or suppliers.
- 1.4 A period of seven years has been identified as the time frame within which to discharge the obligation.

## **2 REQUIREMENTS OF THE DEPARTMENT OF TRADE AND INDUSTRY**

- 2.1 In order to ensure effective implementation of the programme, successful bidders (contractors) are required to, immediately after the award of a contract that is in excess of **R10 million** (ten million Rands), submit details of such a contract to the DTI for reporting purposes.
- 2.2 The purpose for reporting details of contracts in excess of the amount of R10 million (ten million Rands) is to cater for multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as provided for in paragraphs 1.1.(b) to 1.1. (d) above.

### **3 BID SUBMISSION AND CONTRACT REPORTING REQUIREMENTS OF BIDDERS AND SUCCESSFUL BIDDERS (CONTRACTORS)**

3.1 Bidders are required to sign and submit this Standard Bidding Document (SBD 5) together with the bid on the closing date and time.

3.2 In order to accommodate multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as indicated in sub-paragraphs 1.1 (b) to 1.1

(d) above and to enable the DTI in determining the NIP obligation, successful bidders (contractors) are required, immediately after being officially notified about any successful bid with a value in excess of R10 million (ten million Rands), to contact and furnish the DTI with the following information:

- Bid / contract number.
- Description of the goods, works or services.
- Date on which the contract was accepted.
- Name, address and contact details of the government institution.
- Value of the contract.
- Imported content of the contract, if possible.

3.3 The information required in paragraph 3.2 above must be sent to the Department of Trade and Industry, Private Bag X 84, Pretoria, 0001 for the attention of Mr Elias Malapane within five (5) working days after award of the contract. Mr Malapane may be contacted on telephone (012) 394 1401, facsimile (012) 394 2401 or e-mail at [Elias@thedti.gov.za](mailto:Elias@thedti.gov.za) for further details about the programme.

### **4 PROCESS TO SATISFY THE NIP OBLIGATION**

4.1 Once the successful bidder (contractor) has made contact with and furnished the DTI with the information required, the following steps will be followed:

- a. the contractor and the DTI will determine the NIP obligation;
- b. the contractor and the DTI will sign the NIP obligation agreement;
- c. the contractor will submit a performance guarantee to the DTI;
- d. the contractor will submit a business concept for consideration and approval by the DTI;
- e. upon approval of the business concept by the DTI, the contractor will submit detailed business plans outlining the business concepts;
- f. the contractor will implement the business plans; and
- g. the contractor will submit bi-annual progress reports on approved plans to the DTI.

4.2 The NIP obligation agreement is between the DTI and the successful bidder (contractor) and, therefore, does not involve the purchasing institution.

..... Signature	..... Date
..... Position	..... Name of bidder

# C1.2 Contract Data

## Part one - Data provided by the *Employer*

Clause	Statement	Data
<b>1</b>	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option	
	dispute resolution Option	<b>A: Priced contract with activity schedule</b>
	and secondary Options	<b>W1: Dispute resolution procedure</b>
		<b>X1: Price adjustment for inflation</b>
		<b>X2 Changes in the law</b>
		<b>X5: Sectional Completion</b>
		<b>X7: Delay damages</b>
		<b>X13: Performance Bond</b>
		<b>X16: Retention</b>
		<b>X18: Limitation of liability</b>
		<b>Z: <i>Additional conditions of contract</i></b>

of the NEC3 Engineering and Construction Contract June 2005 (amended June 2006 and April 2013)<sup>1</sup>

<sup>1</sup> Available from Engineering Contract Strategies Tel 011 803 3008, Fax 011 803 3009

10.1	The <i>Employer</i> is:	<b>Transnet SOC Ltd (Registration No. 1990/000900/30)</b>
	Address	Registered address: <b>Transnet Corporate Centre 138 Eloff Street Braamfontein Johannesburg 2000</b>
	Having elected its Contractual Address for the purposes of this contract as:	<b>Transnet National Ports Authority 237 Mahatma Gandhi Road Queens Warehouse Point, Durban 4001</b>
10.1	The <i>Project Manager</i> is: (Name)	<b>TBA</b>
	Address	<b>Transnet National Ports Authority 237 Mahatma Gandhi Road Queens Warehouse Point, Durban 4001</b>
	Tel	<b>TBA</b>
	e-mail	<b>TBA</b>
10.1	The <i>Supervisor</i> is: (Name)	<b>TBA</b>
	Address	<b>Transnet National Ports Authority 237 Mahatma Gandhi Road Queens Warehouse Point, Durban 4001</b>
	Tel	<b>TBA</b>
	e-mail	<b>TBA</b>
11.2(13)	The <i>works</i> are	<b>DCT Berths 203 to 205 Reconstruction, Deepening and Lengthening.</b>

11.2(14)	The following matters will be included in the Risk Register	<ul style="list-style-type: none"> <li>➤ <b>Quay wall failure during construction.</b></li> <li>➤ <b>Restricted Working Areas.</b></li> <li>➤ <b>Heavy Traffic Congestion within the port (roads &amp; waterways)</b></li> <li>➤ <b>High E-Coli levels preventing all underwater activities.</b></li> <li>➤ <b>High levels of debris during heavy rainfall restricting movement of marine fleet.</b></li> <li>➤ <b>Disruptions to the project as a result of Business Forum</b></li> <li>➤ <b>Working along operational berths and within an operating port.</b></li> </ul>
11.2(15)	The <i>boundaries of the site</i> are	<b>All related areas necessary for the <i>Contractor</i> to Provide the Works within the boundaries of Berths 203, 204, 205 and Lot 10. Refer to Part C4.1 for details.</b>
11.2(16)	The Site Information is in	<b>Part C4.1</b>
11.2(19)	The Works Information is in	<b>Part C3.1</b>
12.2	The <i>law of the contract</i> is the law of	<b>The Republic of South Africa subject to the jurisdiction of the Courts of South Africa.</b>
13.1	The <i>language of this contract</i> is	<b>English</b>
13.3	The <i>period for reply</i> is	<b>2 (two) weeks</b>
<b>2</b>	<b>The <i>Contractor's</i> main responsibilities</b>	<b>No additional data is required for this section of the <i>conditions of contract</i>.</b>
<b>3</b>	<b>Time</b>	
11.2(3)	The <i>completion date</i> for the whole of the <i>works</i> is	<b>31 Jan 2030</b>
11.2(9)	The <i>key dates</i> and the <i>conditions</i> to be met are:	<b><i>Condition to be met</i></b> <span style="float: right;"><b><i>key dates</i></b></span>

<p><b>1 Submission of all documents required for application of construction work permit &amp; documents required to be accepted by the <i>Project Manager</i> for acceptance in accordance with the Works Information to ensure site Access Certificate can be issued.</b></p>	<p><b>Within 6 (six) weeks of Contract Start Date</b></p>
<p><b>2 Provide full access (referred to as "other things" in accordance to clause 25.2 of conditions of contract) for Others to Section 1 back of quay Working Area (Berth 205) for the installation of electrical Plant and materials and undertaking of refurbishment within and of the existing busbar and back of quay tunnels or otherwise as instructed by the <i>Project Manager</i>.</b></p>	<p><b>13 Jan 2025</b></p>
<p><b>3 Complete the removal and reconstruction of existing busbar tunnel tops at Section 1 of the <i>works</i> including adequate protection of electrical cables as installed by Others, within the tunnels Defect Free and accepted by the <i>Project Manager</i>.</b></p>	<p><b>7 Mar 2025</b></p>
<p><b>4 Complete extension to existing busbar, existing quayside tunnels connecting to the North substation and link tunnel connecting North substation to the new quayside tunnel at Section 1 of the <i>works</i> Defect free including acceptance by the <i>Project Manager</i> and allow access to Others for the installation of electrical Plant and materials.</b></p>	<p><b>9 Jan 2027</b></p>

5	<p>Complete all Section 1a back of quay <i>works</i> within Section 1 back of quay STS modification site (as shown on construction sequencing drawings) in accordance to the Works Information, Defect free including acceptance by the <i>Project Manager</i> to allow access to Others for establishment of crane modification site and crane slipping from Berth 204.</p>	15 Dec 2025
6	<p>Complete all Section 1a superstructure <i>works</i> in accordance with the Works Information i.e but not limited to, stormwater and all services infrastructure, tunnels, concrete and asphalt paving, capping beam, crane beam, crane fixtures (rails and anchors), quay furniture, road markings and signage, installation of temporary stop blocks on new quay wall including quay wall dredging and scour protection to final design levels, between chainage 393.91 and chainage 193.91 Defect free accepted by the <i>Project Manager</i> to allow access for Others to slip STS cranes onto new quayside for modification and commissioning.</p>	15 Jan 2027
7	<p>Complete all Section 1a electrical infrastructure <i>works</i> in accordance with the Works Information i.e but not limited to, tunnels, ducts and chambers, mini-sub chambers and plinths, high mast light foundations, CCTV foundations Defect free accepted by the <i>Project Manager</i> to allow access to Others for installation and commissioning of electrical Plant and materials.</p>	16 Jan 2027

8	<p>Provide full access (referred to as "other things" in accordance to clause 25.2 of conditions of contract) for Others to Section 2a back of quay Working Area (Berth 204) for the installation of electrical Plant and materials and undertaking of refurbishment within and of the existing busbar and back of quay tunnels or otherwise as instructed by the <i>Project Manager</i>.</p>	30 Mar 2027
9	<p>Complete the removal and reconstruction of existing busbar tunnel tops at Section 2a of <i>works</i> including adequate protection of electrical cables as installed by Others, within the tunnels Defect Free and certified by the <i>Project Manager</i>.</p>	30 Jun 2027
10	<p>Complete all Section 2a back of quay <i>works</i> in accordance with the Works Information within Section 2 back of quay STS modification site (as shown on construction sequencing drawings) Defect free including sign off by the <i>Project Manager</i> to allow access to Others for establishment of crane modification site and crane slipping from berth 203.</p>	19 May 2027

11	<p>Complete all Section 2a superstructure <i>works</i> in accordance with the Works Information i.e but not limited to, stormwater and all services infrastructure, tunnels, concrete and asphalt paving, capping beam, crane beam, crane fixtures (rails and anchors), quay furniture, road markings and signage, installation of temporary stop blocks on new quay wall including quay wall dredging and scour protection to final design levels, between chainage 713.91 and chainage 513.91 Defect free certified by the <i>Project Manager</i> to allow access for Others to slip STS cranes onto new quayside for modification and commissioning.</p>	02 Mar 2028
12	<p>Complete all Section 2a (Berth 204) electrical infrastructure <i>works</i> in accordance with the Works Information i.e but not limited to, tunnels, ducts and chambers, mini-sub chambers and plinths, high mast light foundations, CCTV foundations Defect free certified by the <i>Project Manager</i> to allow access to Others for installation and commissioning of electrical Plant and materials.</p>	13 Dec 2027

13	<p>Provide full access (referred to as "other things" in accordance to clause 25.2 of conditions of contract) for Others to Section 3a back of quay Working Area (Berth 203) for the installation of electrical Plant and materials and undertaking of refurbishment within and of the existing busbar and back of quay tunnels or otherwise as instructed by the <i>Project Manager</i>.</p>	13 Jun 2028
14	<p>Complete the removal and reconstruction of existing busbar tunnel tops at Section 3a of <i>works</i> including adequate protection of electrical cables as installed by Others, within the tunnels Defect Free and certified by the <i>Project Manager</i>.</p>	14 Aug 2028
15	<p>Complete all Section 3a (Berth 203) electrical infrastructure <i>works</i> in accordance with the Works Information i.e but not limited to, tunnels, ducts and chambers, mini-sub chambers and plinths, high mast light foundations, CCTV foundations Defect free certified by the <i>Project Manager</i> to allow access to Others for installation and commissioning of electrical Plant and materials.</p>	10 Sept 2029
16	<p>Hand-over of all close-out documentation associated with Sectional Completion Dates 1a and 1b and acceptance of same by <i>Project Manager</i>.</p>	2 (Two) weeks prior to Sectional Completion Date 1b.
17	<p>Hand-over of all close-out documentation associated with Sectional Completion Dates 2a and 2b and acceptance of same by <i>Project Manager</i>.</p>	2 (Two) weeks prior to Sectional Completion Date 2b.
18	<p>Hand-over of all close-out documentation associated with Sectional Completion Dates 3a, 3b and 4 and acceptance of same by <i>Project Manager</i>.</p>	2 (Two) weeks prior to Sectional Completion Date 4.

**30.1** The *access dates* are

	<b>Part of the Site</b>	
<b>1</b>	<b>Section 1a (Phase 1 Berth 205) – Access for installation of site boundary fence, terminal access route and installation of new temporary stop blocks at Berth 204.</b>	<b>13 Jan 2025</b>
<b>2</b>	<b>Section 1b (Phase 1 Berth 205) – Access to the whole of the Working Area, on completion and sign-off of scope associated with Access Date Section 1a.</b>	<b>1 (One) day after Completion of the installation of Section 1a construction site boundary fence, deviated terminal access route and installation stop blocks at existing Berth 204 and all other requirements being met in accordance with Works Information and certified by the <i>Project Manager</i></b>
<b>3</b>	<b>Section 1c (Phase 1 Berth 205) – Access to the central sandbank, basin approach basin dredging areas, T-jetty and Pier 1 waterside area, on completion and sign-off of scope associated with Access Date Section 1a.</b>	<b>*1 (One) day after Completion of the installation of Section 1a construction site boundary fence, deviated terminal access route and installation stop blocks at existing Berth 204, all in accordance with the Works Information and certified by the <i>Project Manager</i></b>  <i>*Subject to availability based on port operations.</i>
<b>4</b>	<b>Lot 10 - Access for installation of site boundary fence.</b>	<b>13 Jan 2025</b>
<b>5</b>	<b>Lot 10 – Access to the whole of the Working Area.</b>	<b>*1 Day after Completion of the installation of Lot 10 site boundary fence and all other requirements being met in accordance with the Works Information and certified by the <i>Project Manager</i></b>  <i>*Subject to availability based on port operations.</i>

		<p><b>6</b> Section 2a (Phase 2 Berth 204) – Access for installation of site boundary fence &amp; terminal access route</p> <p><b>7</b> Section 2b (Phase 1 Berth 204) – Access to the whole of the Working Area, terminal access route and installation of stop blocks for Berth 203</p> <p><b>8</b> Section 3a (Phase 3 Berth 203) – Access for installation of site boundary fence, terminal access route</p> <p><b>9</b> Section 3b (Phase 3 Berth 203) – Access to the whole of the Working Area, on completion and sign-off of scope associated with Access Date Section 3a.</p>	<p><b>1 (One) Day</b> after Hand Over of Section 1a of the <i>works</i> to the <i>Employer</i> and Completion Certificate being issued by the <i>Project Manager</i> for section 1a <i>works</i></p> <p><b>1 (One) day</b> after Completion of the installation of Section 2a construction site boundary fence, deviated terminal access route in accordance with the Works Information and signed by the <i>Project Manager</i></p> <p><b>1(One) Day</b> after Hand Over of Section 2a of the <i>works</i> to the <i>Employer</i> and Completion Certificate being issued by the <i>Project Manager</i> for section 2a <i>works</i></p> <p><b>1 (One) Day</b> after Completion of the installation of Section 3a construction site boundary fence, deviated terminal access route and Hand Over of Section 2a of the <i>works</i> to the <i>Employer</i> including Completion Certificate being issued by the <i>Project Manager</i></p>
31.1	The <i>Contractor</i> is to submit a first programme for acceptance within	<b>2 (two) weeks of the Contract Date.</b>	
31.2	The <i>starting date</i> is.	<b>29 Aug 2024</b>	
31.3	Acceptance of the programme	<b>Within four weeks of the <i>Contractor</i> submitting a programme to him for acceptance, the <i>Project Manager</i> either accepts the programme or notifies the <i>Contractor</i> of his reasons for not accepting it.</b>	
32.2	The <i>Contractor</i> submits revised programmes at intervals no longer than	<b>The <i>Contractor</i> submits revised programmes at intervals no longer than 4 weeks.</b>	
35.1	The <i>Employer</i> is willing to take over the <i>works</i> before the Completion Date.		
<b>4</b>	<b>Testing and Defects</b>		
42.2	The <i>defects date</i> is	<b>52 (fifty-two) weeks after Completion of the whole of the <i>works</i>.</b>	
43.2	The <i>defect correction period</i> is	<b>2 (two) weeks</b>	

<b>5</b>	<b>Payment</b>	
50.1	The <i>assessment interval</i> is monthly on the	<del>18th (eighteenth) day of each successive month.</del> <b>25<sup>th</sup> (twenty fifth) day of each successive month.</b>
51.1	The <i>currency of this contract</i> is the	<b>South African Rand.</b>
51.2	The period within which payments are made is	<b>Payment will be effected on or before the last day of the month following the month during which an undisputed valid Tax Invoice and Statement is received.</b>
51.4	The <i>interest rate</i> is	<b>the prime lending rate of the <del>Standard Bank</del> <b>Rand Merchant Bank of South Africa.</b></b>
<b>6</b>	<b>Compensation events</b>	
60.1(13)	The <i>weather measurements</i> to be recorded for each calendar month are,  The place where weather is to be recorded (on the Site) is:  The <i>weather data</i> are the records of past <i>weather measurements</i> for each calendar month which were recorded at:  and which are available from:	<b>the cumulative rainfall (mm); and</b>  <b>the number of days with rainfall more than 10 (ten) mm</b>  <b>The <i>Contractor's</i> site establishment area within the <i>boundaries</i> of the Site, refer to Part C4.1 and the specification agreed with the <i>Supervisor</i></b>  <b>Durban Weather Station</b>  <b>South African Weather Service 012 367 6023 or <a href="mailto:info3@weathersa.co.za">info3@weathersa.co.za</a>.</b>
	These are additional compensation events:	<b>1 Wind velocity exceeding 40 km/hr for a minimum duration of 4 (four) continuous hours shall be a compensation event based on accurate records verified by the <i>Supervisor</i>.</b>
<b>7</b>	<b>Title</b>	<b>No additional data is required for this section of the <i>conditions of contract</i>.</b>
<b>8</b>	<b>Risks and insurance</b>	
84.1	The <i>Employer</i> provides these insurances from the Insurance Table	
	1 Insurance against:	<b>Loss of or damage to the <i>works</i>, Plant and Materials is as stated in the Insurance policy for Contract Works/ Public Liability.</b>
	Cover / indemnity:	<b>to the extent as stated in the insurance policy for Contract Works / Public Liability</b>
	The deductibles are:	<b>as stated in the insurance policy for Contract Works / Public Liability</b>
	2 Insurance against:	<b>Loss of or damage to property (except the <i>works</i>, Plant and Materials &amp; Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i>) arising out of or in connection with the performance of the Contract as stated in the insurance policy for Contract Works / Public Liability</b>

	Cover / indemnity	<b>Is to the extent as stated in the insurance policy for Contract Works / Public Liability</b>
	The deductibles are	<b>as stated in the insurance policy for Contract Works / Public Liability</b>
84.1	3 Insurance against:	<b>Loss of or damage to Equipment (Temporary Works only) as stated in the insurance policy for contract Works and Public Liability</b>
	Cover / indemnity	<b>Is to the extent as stated in the insurance policy for Contract Works / Public Liability</b>
	The deductibles are:	<b>As stated in the insurance policy for Contract Works / Public Liability</b>
	4 Insurance against:	<b>Contract Works SASRIA insurance subject to the terms, exceptions and conditions of the SASRIA coupon</b>
	Cover / indemnity	<b>Cover / indemnity is to the extent provided by the SASRIA coupon</b>
	The deductibles are	<b>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.</b>
84.1	The minimum limit of indemnity for insurance in respect of 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 for any one event is	<b>The <i>Contractor</i> must comply at a minimum with the provisions of the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 as amended.</b>
	The <i>Contractor</i> provides these additional Insurances	<ol style="list-style-type: none"> <li><b>1 Where the contract requires that the design of any part of the <i>works</i> shall be provided by the <i>Contractor</i> the <i>Contractor</i> shall satisfy the <i>Employer</i> that professional indemnity insurance cover in connection therewith has been affected</b></li> <li><b>2 Where the contract involves manufacture, and/or fabrication of Plant &amp; Materials, components or other goods to be incorporated into the <i>works</i> at premises other than the site, the <i>Contractor</i> shall satisfy the <i>Employer</i> that such plant &amp; materials, components or other goods for incorporation in the <i>works</i> are adequately insured during manufacture and/or fabrication and transportation to the site.</b></li> <li><b>3 Should the <i>Employer</i> have an insurable interest in such items during manufacture, and/or fabrication, such interest shall be noted by endorsement to the <i>Contractor's</i> policies of insurance as well as those of any sub<i>contractor</i></b></li> <li><b>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 R 5 000 000.</b></li> <li><b>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</b></li> </ol>

		<p><b>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 50,000,000</b></p> <p><b>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.</b></p>
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	<b>Whatever the Contractor requires in addition to the amount of insurance taken out by the Employer for the same risk.</b>
84.2	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:	<b>Project Specific Insurance</b>
<b>9</b>	<b>Termination</b>	<b>There is no additional Contract Data required for this section of the conditions of contract.</b>
<b>10</b>	<b>Data for main Option clause</b>	
<b>A</b>	<b>Priced contract with activity schedule</b>	<b>No additional data is required for this Option</b>
<b>11</b>	<b>Data for Option W1</b>	
W1.1	The <i>Adjudicator</i> is	<b>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 nominate an <i>Adjudicator</i>.</b>
W1.2(3)	The <i>Adjudicator nominating body</i> is:	<b>The Chairman of the Association of Arbitrators (Southern Africa)</b>
W1.4(2)	The <i>tribunal</i> is:	<b>Arbitration</b>
W1.4(5)	The <i>arbitration procedure</i> is	<b>The Rules for the Conduct of Arbitrations of the Association of Arbitrators (Southern Africa)</b>
	The place where arbitration is to be held is	<b>Durban, KwaZulu Natal, South Africa</b>

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)**

<b>12</b>	<b>Data for secondary Option clauses</b>		
<b>X1</b>	<b>Price adjustment for inflation</b>		
X1.1(a)	The <i>base date</i> for indices is	<b>Tender closing date</b>	
X1.1(c)	The proportions used to calculate the Price Adjustment Factor are:	<b>proportion</b>	<b>linked to index for</b>
		<b>0.30</b>	<b>Labour</b>
		<b>0.25</b>	<b>Plant (Equipment)</b>
			<b>Index prepared by</b>
			<b>The Consumer Price Index (CPI) for "All Items" in Table 1 (Consumer price indices for the total country) of the Statistical Release P0141 "Consumer Price Index - Additional Tables" published by Statistics South Africa.</b> (Link - <a href="http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0141">http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0141</a> )
			<b>The "Plant and Equipment" index in Table 4 (Mining and construction plant and equipment price index) of the Statistical Release P0151.1 "Construction Materials Price Indices" published by Statistics South Africa.</b> (Link - <a href="http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0151.1">http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0151.1</a> );



		<b>0.40</b>	<b>Material (Plant Materials)</b>	<b>and</b>	<b>The "Civil Engineering Material - Total" index in Table 6 (Civil engineering material price indices) of the Statistical Release P0151.1 "Construction Materials Price Indices" published by Statistics South Africa. (Link – <a href="http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0151.1">http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0151.1</a>); and</b>
		<b>0.05</b>	<b>Fuel</b>		<b>The "Diesel" index in Table 1 (PPI for final manufactured goods) of the Statistical Release P0142.1 "Producer Price Index" published by Statistics South Africa. (Link - <a href="http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0142.1">http://www.statssa.gov.za/?page_id=1854&amp;PPN=P0142.1</a>)</b>
		<b>1.00</b>			
		<b>0.15</b>	<b>Non-Adjustable</b>		
<b>X2</b>	<b>Changes in the law</b>	<b>No additional data is required for this Option</b>			
<b>X5</b>	<b>Sectional Completion</b>				
X5.1	The <i>completion date</i> for each <i>section</i> of the <i>works</i> is:	<b><i>Section</i></b>	<b><i>Description</i></b>	<b><i>Completion date</i></b>	
		<b>1a</b>	<b>Hand-over of complete Berth 205 including return quay and dredging and scour to new quay wall <i>works</i> in accordance with Works Information at Berth 205, Defect free as certified by the <i>Project Manager</i>.</b>	<b>09 Mar 2027</b>	



1b	<p><b>Hand-over of complete Central sandbank extension including scour protection to T-jetty and Pier 1, and all approach basin dredging works, complete to final design levels in accordance with the Works Information and Defect free as certified by the <i>Project Manager</i>.</b></p>	29 Jan 2027
2a	<p><b>Hand-over of complete Berth 204 works in accordance with Works Information, Defect free as certified by the <i>Project Manager</i>.</b></p>	01 Jun 2028
2b	<p><b>Hand-over of complete Berth 204 including dredging and scour to new quay wall works in accordance with Works Information, Defect free as certified by the <i>Project Manager</i>.</b></p>	02 Mar 2028
3a	<p><b>Hand-over of complete Berth 203 quay wall works in accordance with Works Information, Defect free as certified by the <i>Project Manager</i>.</b></p>	10 Dec 2029

	<b>3b</b>	<b>Hand-over of complete Berth 203 including dredging and scour to new quay wall works in accordance with Works Information, Defect free as certified by the <i>Project Manager</i>.</b>	<b>15 Sept 2029</b>
	<b>4</b>	<b>Remainder of the works</b>	<b>14 Jan 2030</b>

**X5 & X7 Sectional Completion and delay damages used together**

X7.1 X5.1	Delay damages for late Completion of the <i>sections</i> of the <i>works</i> are:	<i>section</i>	Description	Amount per day
		<b>1a</b>	<b>Hand-over of complete Berth 205 including return quay and dredging and scour to new quay wall works in accordance with Works Information at Berth 205, Defect free as accepted by the <i>Project Manager</i>.</b>	<b>R 295 000.00</b>
		<b>1b</b>	<b>Hand-over of complete Central sandbank extension including scour protection to T-jetty and Pier 1, and all approach basin dredging works, complete to final design levels in accordance with the Works Information and Defect free as accepted by the <i>Project Manager</i>.</b>	<b>R 295 000.00</b>

2a	Hand-over of complete Berth 204 <i>works</i> in accordance with Works Information, Defect free as accepted by the <i>Project Manager</i> .	R 295 000.00
2b	Hand-over of complete Berth 204 including dredging and scour to new quay wall <i>works</i> in accordance with Works Information, Defect free as accepted by the <i>Project Manager</i> .	R 295 000.00
3a	Hand-over of complete Berth 203 quay wall <i>works</i> in accordance with Works Information, Defect free as accepted by the <i>Project Manager</i> .	R 295 000.00
3b	Hand-over of complete Berth 203 including dredging and scour to new quay wall <i>works</i> in accordance with Works Information, Defect free as accepted by the <i>Project Manager</i> .	R 295 000.00
4	Remainder of the <i>works</i>	R295 000.00

<b>X13</b>	<b>Performance bond</b>
X13.1	The amount of the performance bond is <del>10%</del> <b>5%</b> of the total of the Prices including VAT
<b>X16</b>	<b>Retention</b>
	The retention free amount is <b>Nil</b>
	The retention percentage is <del>5%</del> <b>10%</b> on all payments certified
<b>X18</b>	<b>Limitation of liability</b>
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to: <b>Total of the Prices Nil</b>
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: <b>The deductible of the relevant insurance policy</b>

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:	<b>The cost of correcting the Defect</b>
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:	<b>The total of the Prices</b>
X18.5	The <i>end of liability date</i> is	<b>Five (5) years after Completion of the whole of the works</b>

**Z Additional conditions of contract**

The *additional conditions of contract* are:

**Z1 Additional clauses relating to Performance Bonds and/or Guarantees**

**Z1.1** The Performance Guarantee under X13 above shall be an irrevocable, on-demand performance guarantee, to be issued exactly in the form of the Pro Forma documents provided for this purpose under C1.3 (Forms of Securities), in favour of the *Employer* by a financial institution reasonably acceptable to the *Employer*.

~~**Z1.2** A Retention Guarantee of 5% of the total of the Prices shall be provided, in lieu of Option X16 under the Contract, within four (4) weeks of the Contract Date. The Retention Guarantee shall be reproduced exactly as per the attached Pro Forma Retention Guarantee and shall be subject to the conditions stated under clause Z1.1 above.~~

**Z2 Obligations in respect of Joint Venture Agreements**

**Z2.1** 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 constituents' 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 liability to the *Employer* to Provide the Works;**
    - ii. **identification of the leader in the joint venture confirming the authority of the leader 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:**
    - i. **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;**
    - ii. **the names of the auditors and others, if any, who will provide auditing and accounting services to the Joint Venture**

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**Z2.2**

**Insert additional core clause 27.6**

**27.6. In the instance that the *Contractor* is a joint venture, the *Contractor* shall not alter its composition or legal status without the approval of the *Employer*.**

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**Z2.3**

**Consortiums will only be considered if they comply with all the tender requirements applicable to Joint Ventures, and provided they meet all commercial and technical requirements specified in the tender document.**

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**Z3 Additional obligations in respect of Termination**

**Z3.1** The following will be included under core clause 91.1:

In the second main bullet, after the word 'partnership' add 'joint venture whether incorporated or otherwise and consortiums (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)

**Z3.2 Termination Table**

The following will be included under core clause 90.2 Termination Table as follows:

Amend "A reason other than R1 – R21" to "A reason other than R1 – R23"

Amend "R1 – R15 or R18" to "R1 – R15, R18, R22 or R23."

**Z4 Right Reserved by the *Employer* to Conduct Vetting through SSA**

**Z4.1** The *Employer* reserves the right to conduct vetting through State Security Agency (SSA) for security clearances of any *Contractor* who has access to National Key Points for the following without limitations:

1. Confidential – this clearance is based on any information which may be used by malicious, opposing or hostile elements to harm the objectives and functions of an organ of state.
2. Secret – clearance is based on any information which may be used by malicious, opposing or hostile elements to disrupt the objectives and functions of an organ of state.
3. Top Secret – this clearance is based on information which may be used by malicious, opposing or hostile elements to neutralise the objectives and functions of an organ of state.

<b>Z5</b>	<b>Additional clause relating to Collusion in the Construction Industry</b>
<b>Z5.1</b>	<b>The contract award is made without prejudice to any rights the <i>Employer</i> may have to take appropriate action later with regard to any declared bid rigging including blacklisting.</b>
<b>Z6</b>	<b>Protection of Personal Information Act</b>
<b>Z6.1</b>	<b>The <i>Employer</i> and the <i>Contractor</i> 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.</b>
<b>Z6.2</b>	<b>The <i>Employer</i> owns the <i>Contractor's</i> rights over material, including but not limited to design and documentation, prepared for this contract by the <i>Contractor</i> except as stated otherwise in the Works Information. The <i>Contractor</i> obtains other rights for the <i>Employer</i> as stated in the Works Information and obtains from a Sub<i>Contractor</i> or third party equivalent rights for the <i>Employer</i> of the material prepared by the Sub<i>Contractor</i>. The <i>Contractor</i> provides to the <i>Employer</i> the documents which transfer these rights to the <i>Employer</i> at no costs to the <i>Employer</i>.</b>
<b>Z7</b>	<b>The first assessment interval</b>
<b>Z7.1</b>	<b>In the event the <i>Contractor</i> is not loaded on the <i>Employers</i> data base, the <i>Project Manager's</i> first assessment of the amount due will be done once the <i>Contractor</i> has been successfully loaded as a vendor on the <i>Employers</i> data base following submitting all valid updated documents. Therefore on NEC ECC Clause 50.1 the following text is removed in its entirety "and is no later than the <i>assessment</i> interval after the <i>starting</i> date" .</b>

**Z8**            **Transfer of rights**

The *Employer* owns the *Contractor's* rights over material, including but not limited to design and documentation, prepared for this contract by the *Contractor* except as stated otherwise in the Works Information. The *Contractor* obtains other rights for the *Employer* as stated in the Works Information and obtains from a Subcontractor or third-party equivalent rights for the *Employer* of the material prepared by the Subcontractor. The *Contractor* provides to the *Employer* the documents which transfer these rights to the *Employer* at no costs to the *Employer*.

**Z9**            **Subcontracting**

**Z9.1**

The *Contractor's* Subcontracting percentage as detailed in the tender submission Returnable T2.2-30 will constitute a binding agreement throughout the duration of the contract until Completion, if not, it will be deemed that the *Contractor* has failed in full to meet the material term of the contract, which may constitute a reason for termination.

**Z9.2**

The *Contractor* shall report to the *Employer* on a monthly basis during the term of the Contract, the amounts spent on each sub-contractor.

**Z9.3**

The *Contractor* may not replace any sub-contractor without acceptance of the *Project Manager*. The *Project Manager* shall before acceptance of a replacement by the *Contractor* of any sub-contractor as detailed in the tender submission Returnable T2.2-30, obtain representations or input from the initial sub-contractor to make an informed decision as to the proposed replacement. The sub-contracting arrangement/contract remains between the *Contractor* and sub-contractor.

**Z9.4**

The *Contractor* shall provide to the *Employer*, upon receiving an instruction to do so, any documentation and/or evidence required by the *Employer*, which in the *Employer's* opinion would be necessary to verify whether the *Contractor* has maintained the subcontracting percentage. The *Contractor* shall provide the said documentation and/or evidence within the period stated in the instruction. The provision of the documentation and/or evidence shall not constitute a compensation event.

**Z10**      **Obligations in respect of Job  
Creation**

**Z10.1**      **It will be a material term of this contract that the *Contractor* must contribute to the *Employer's* job-creation objectives as set out in Returnable Schedule T.2.2-29.**

**Z10.2**      **The *Contractor's* undertaking as to the number of new jobs created due to the award of this contract as set out in Returnable Schedule T.2.2-29 will constitute a binding agreement throughout the duration of the contract until Completion, if not, it will be deemed that the *Contractor* has failed in full to meet this specific material term of the contract, which may constitute a reason for termination..**

**Z10.3**      **The *Contractor* shall provide to the *Employer*, on a monthly basis or upon receiving an instruction to do so by the *Project Manager*, any documentation and/or evidence required by the *Employer*, which in the *Employer's* opinion would be necessary to verify whether the *Contractor* has maintained the job-creation undertaking as stipulated in Returnable Schedule T.2.2-29 The *Contractor* shall provide the said documentation and/or evidence within the period stated or as instructed. The provision of the documentation and/or evidence shall not constitute a compensation event.**

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**Z11 Foreign Exchange**

**Fluctuations in the foreign exchange rates to be determined prior to award of the contract, will be treated as a compensation event based on the actual cost of the Forward Exchange Contract (Forward Cover) arranged by the *Contractor*, when instructed to do so by the *Project Manager*, in accordance with the conditions stated hereunder.**

**The *Contractor* shall obtain a quote for a Forward Exchange Contract (Forward Cover) in respect of the imported Plant and Materials from a recognised financial institution registered in South Africa (an institution registered with the Financial Services Board) for comparative purposes within four weeks of the Contract Date and must submit this to the *Project Manager* for acceptance before it is entered into. If accepted by the *Project Manager*, this will be a compensation event and the Prices will be increased or reduced accordingly and the *Project Manager* will not accept any further changes in prices due to exchange rate fluctuations as thereafter the total of the Prices will be fixed in Rands (ZAR). The resulting compensation event will be based on an actual Forward Exchange Contract (FEC) between the *Contractor* and a recognised financial institution registered in South Africa.**

**It shall be the *Contractor's* responsibility to liaise directly with Transnet National Ports Authority Financial Accountant to finalise the foreign currency hedging process (Forward Exchange Contract) to be entered into by the *Contractor*.**

**If the *Contractor* fails to provide the Forward Exchange Contract (Forward Cover) within four weeks of the Contract Date, the *Project Manager* will assess this compensation event based on his own assessment of the foreign currency cash flow and projected forward rates.**

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# 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)<sup>2</sup> 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: Contract Manager / Project Manager Responsibilities: Qualifications: Experience:	
	2	<b>Construction Manager</b>
	3	<b>Construction Manager</b>
	4	<b>Construction Manager</b>
	5	<b>Commercial Manager</b>
	6	<b>General Foreman</b>
	7	<b>General Foreman</b>
	8	<b>General Foreman</b>
	9	<b>General Foreman</b>
	10	<b>Site Engineer</b>

<sup>2</sup> Available from Engineering Contract Strategies Tel 011 803 3008, Fax 011 803 3009

11	<b>Site Engineer</b>
12	<b>Site Engineer</b>
13	<b>Site Engineer</b>
14	<b>Land Surveyor</b>
15	<b>Lead Planner</b>
16	<b>Health and Safety Manager</b>
17	<b>Environmental Manager</b>
18	<b>Quality Manager</b>
19	<b>Quality Officer</b>
20	<b>Quality Officer</b>
21	<b>Quality Officer</b>
22	<b>Health and Safety Officer</b>
23	<b>Health and Safety Officer</b>
24	<b>Health and Safety Officer</b>
25	<b>Environmental Officer</b>
26	<b>Environmental Officer</b>
27	<b>Document Controller</b>
28	<b>Document Controller</b>
29	<b>Industrial Relations Officer</b>

11.2(14) The following matters will be included in the Risk Register -

<b>A</b>	<b>Priced contract with activity schedule</b>	
11.2(20)	The <i>activity schedule</i> is in	Refer to C2.2 Activity Schedule
11.2(30)	The tendered total of the Prices is	

**Data for Schedules of Cost Components**

*Note "SCC" means Schedule of Cost Components starting on page 60 of ECC, and "SSCC" means Shorter Schedule of Cost Components starting on page 63 of ECC.*

<b>A</b>	<b>Priced contract with activity schedule</b>	<b>Data for the Shorter Schedule of Cost Components</b>
41 SSCC	in The percentage for people overheads is:	
21 SSCC	in The published list of Equipment is the last edition of the list published by	<b>N/A</b>

The percentage for adjustment for Equipment in the published list is **0%**

22 SSCC	in The rates of other Equipment are: <b>(Note: the Contractor to distinguish between dry and wet rate)</b>	<b>Equipment</b>	<b>Size or capacity</b>	<b>Hourly Rate (R)</b>
61 SSCC	in The hourly rates for Defined Cost of design outside the Working Areas are	<b>Category of employee</b>	<b>Hourly rate</b>	
62 SSCC	in The percentage for design overheads is	<b>0%</b>		
63 SSCC	in The categories of design employees whose travelling expenses to and from the Working Areas are included in Defined Cost are:	<b>None</b>		

Item No	Description	Activity Schedule Unit	Amount	
Section A	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.			
	<b><u>PRELIMINARY AND GENERAL</u></b>			
	<b><u>FIXED CHARGE ITEMS</u></b>			
	1	Contractual requirements as per NEC3 ECC including all performance bonds, insurances etc.	Sum	
	<b>Establishment of facilities and Equipment on the Site</b>			
	<b>Facilities for Engineer</b>			
	2	Furnished offices at Lot 10 for Supervisor's Representatives	Sum	
	3	Nameboards, monthly progress photos, aerial photography and time lapse videos, for all sites and operations including sand bank extension	Sum	
	<b>Facilities for Contractor</b>			
	4	Offices and storage sheds	Sum	
	5	Workshops	Sum	
	6	Laboratories	Sum	
	7	Living accommodation and messing facilities	Sum	
	8	Ablution and latrine facilities	Sum	
	9	Tools and equipment	Sum	
	10	Water supplies, electric power and communications	Sum	
	11	Dealing with water	Sum	
	12	Access to site	Sum	
	<b>Equipment</b>			
	13	Provision of Equipment	Sum	
	<b>Other fixed charge obligations</b>			
14	Fencing, barriers and traffic control Equipment for quayside site	Sum		
15	Relocation of Contractor's and Employer's quayside site facilities from one phase to the next	Sum		
16	Removal of site establishment	Sum		
17	Survey of the site and setting out of the works	Sum		
18	Monitoring of existing block work quay wall	Sum		
19	Monitoring of new caisson quay wall	Sum		
20	Comply with all environmental and pollution control requirements as stipulated in the Environmental Management Plan and Environmental Specifications	Sum		
21	Comply with all Health and Safety Requirements	Sum		
Amount carried forward				

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
22	Comply with all industrial relations requirements	Sum	
23	Comply with all quality and document management and control requirements including provision of red line / marked up drawings	Sum	
<b>All other fixed charge obligations not covered elsewhere - tender to specify</b>			
24	.....	Sum	
25	.....	Sum	
26	.....	Sum	
<b>A.2</b>	<b><u>TIME RELATED ITEMS</u></b>		
27	Contractual requirements as per NEC3 ECC including all performance bonds, insurances etc.	Sum	
<b>Operation and Maintenance of Facilities on Site, for Duration of Construction, (unless otherwise stated)</b>			
<b>Facilities for Engineer</b>			
28	Furnished offices at Lot 10 for Supervisor's Representatives	Sum	
29	Nameboards and monthly progress photos	Sum	
<b>Facilities for Contractor</b>			
31	Offices and storage sheds	Sum	
32	Workshops	Sum	
33	Laboratories	Sum	
34	Living accommodation and messing facilities	Sum	
35	Ablution and latrine facilities	Sum	
36	Tools and equipment	Sum	
37	Water supplies, electric power and communications	Sum	
38	Dealing with water	Sum	
39	Access	Sum	
<b>Equipment</b>			
40	Provision of Equipment	Sum	
<b>Other Equipment (tenderer to specify)</b>			
41	.....	Sum	
42	.....	Sum	
43	.....	Sum	
44	Supervision for duration of construction	Sum	
45	Company and head office overhead costs for duration of construction	Sum	
46	Other time related obligations	Sum	
47	Fencing, barriers and traffic control for quayside site	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
48	Survey of the site and setting out of the works	Sum	
49	Monitoring of existing block work quay wall	Sum	
50	Monitoring of new caisson quay wall	Sum	
51	Environmental Management Plan and Environmental Specifications	Sum	
52	Comply with all Health and Safety Requirements	Sum	
53	Comply with all industrial relations requirements	Sum	
54	Comply with all quality and document management and control requirements including provision of red line / marked up drawings	Sum	
55	All other time related obligations not covered elsewhere - tender to specify		
56	.....	Sum	
57	.....	Sum	
58	.....	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.		
<b>Section B</b>	<b><u>SITE CLEARANCE AND DEMOLITIONS</u></b>		
	<b>Demolish, remove and dispose of structures/ buildings and dismantle steelwork, etc.</b>		
1	Mess and ablution facility located at existing Berth 205	Sum	
2	Mess and ablution facility located at existing Berth 203	Sum	
3	Substation located at existing Berth 203	Sum	
4	Existing block quay wall at existing return quay	Sum	
5	Ro-Ro Ramp at end of existing Berth 205	Sum	
6	Existing service tunnel at Ro-Ro Ramp at existing 205 end	Sum	
7	Existing capping beam at Berth 203 Ro-Ro Ramp	Sum	
8	Ro-Ro Ramp at existing Berth 203	Sum	
9	Existing capping beam (including service tunnel) new cross service tunnel tie-in	Sum	
10	Existing busbar tunnel for new cross service tunnel tie-in	Sum	
11	Permanent STS Crane stop blocks	Sum	
12	Demolish and dispose of Shore Protection Concrete Beams	Sum	
	<b>Demolitions and Site Clearance of existing crane yard at end of existing Berth 205</b>		
13	Take down existing palisade fence and transport to Employer's salvage yard	Sum	
14	Demolish and dispose of reinforced concrete crane beams	Sum	
	<b>Breaking up, demolish and dispose of existing flexible pavement in crane yard (Note - removal of existing back of quay flexible paving measured in Paving BoQ) Excavating and removing existing bitumous material to be disposed of with average depth of excavation:</b>		
15	Exceeding 150mm but not exceeding 200mm	Sum	
	Breaking up, demolish and dispose of existing mass concrete pavement		
16	Unreinforced concrete of thickness greater than 300mm and less than 400mm	Sum	
	<b>Sawing existing concrete for depths</b>		
17	Exceeding 50mm but less than 300mm	Sum	
18	Exceeding 300mm but less than 425mm	Sum	
	<b>Excavating and spoiling material from an existing pavement</b>		
19	Cemented material	Sum	
20	Cut to spoil (dispose of) all remaining material to level of +2.2 CD. Material below +2.2 CD measured under dredging	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
	<b>Demolish/Remove electrical and comms infrastructure</b>		
21	Take down existing high mast lights, demolish and dispose of plinth and base (located in 205 crane yard)	Sum	
22	Take down existing high mast lights, demolish plinth and make good paving (located back of quay)	Sum	
23	Relocate existing CCTV's, demolish and dispose of existing plinth and base (located in 205 crane yard)	Sum	
24	Take down existing CCTV/Radio mast, demolish plinth and make good paving (located back of quay)	Sum	
25	Relocate existing Minsubs, demolish plinth, remove armco barriers and make good paving	Sum	
26	Demolish and dispose of existing duct and chamber infrastructure within existing crane yard at 205	Sum	
27	Take down existing Navigation Light Masts, demolish and dispose of existing plinth and make good paving	Sum	
	<b>Decommission, dismantle and remove drainage, water and sewer infrastructure</b>		
28	Existing slot drain	Sum	
29	Existing storm water pipe of max diameter 900mm	Sum	
30	Existing sewer pump stations	Sum	
31	Existing 110mm diameter sewer pipe in ground	Sum	
32	Existing 110mm diameter sewer pipe in service tunnel	Sum	
33	Existing 375mm diameter AC potable water main in ground	Sum	
34	Existing 275mm diameter potable water main in service tunnel	Sum	
	<b>Removal of existing quay furniture and services to Employer's designated storage site</b>		
35	Tyre Fenders	Sum	
36	80 ton Bollards	Sum	
37	Quay Access Ladders	Sum	
38	Sole Plates	Sum	
39	A100 crane rails	Sum	
40	A150 crane rails	Sum	
41	Pipe cable protector	Sum	
42	Turn over drums	Sum	
43	Site Clearance of Lot 10	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
Section C	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.		
	<b><u>DREDGING, RECLAMATION AND SANDBANK EXTENSION</u></b>		
	<b>Dredging</b>		
	<b>Mobilise dredging equipment (Tenderer to specify type and number of)</b>		
	1 Dredger type: _____	Sum	
	2 Dredger type: _____	Sum	
	<b>De-mobilise dredging equipment</b>		
	3 Dredger type: _____	Sum	
	4 Dredger type: _____	Sum	
	5 Excavate material other than rock by dredging from basin, channels (including caisson foundation trench and scour trench) to the levels and areas indicated on the drawings and dispose of at the permitted off-shore disposal site	Sum	
	6 Excavate material other than rock by dredging from basin, existing sandbank and crane yard area to the levels and areas indicated on the drawings and deposit material in controlled manner for sandbank extension. Note, dredge quantity of material from existing crane yard is measured from +2.2CD. Removal of material above +2.2CD is measured under site clearance and demolitions	Sum	
	7 Excavate material by dredging from off-shore borrow site and deposit material in controlled manner for sandbank extension	Sum	
	8 Excavate material by dredging from off-shore borrow site and placement of material within reclamation area or within caisson	Sum	
	9 Excavate material other than rock by dredging from Lot 10 and Lot 10 approach channel to the levels and areas indicated on the drawings and dispose of at the permitted off-shore disposal site	Sum	
	<b>Undertake surveys:</b>		
	10 In survey of basin, off shore disposal site, offshore borrow site and existing sandbank	Sum	
	11 Out survey of basin	Sum	
	12 Out survey of sandbank after deposition of off-shore material	Sum	
13 Final out survey of sandbank after deposition of material from Zones A and B	Sum		
14 Survey of phase 1 caisson and scour trench	Sum		
15 Survey of phase 2 caisson and scour trench	Sum		
16 Survey of phase 3 caisson and scour trench	Sum		
17 Out survey of offshore borrow site and offshore disposal site	Sum		
18 Maintenance dredging of towing route channels including surveys	Sum		
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
<b>Compaction of reclamation</b>			
19	Establishment on site for compaction and testing of reclamation	Sum	
20	Compaction of material within caissons	Sum	
21	Compaction of material between caissons and existing quay wall (Material placed and compacted above +2.885 CDP measured under Bill H - Paving)	Sum	
<b>Undertake CPTu testing in accordance with performance based specification</b>			
22	Phase 1	Sum	
23	Phase 2	Sum	
24	Phase 3	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount	
Section D	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.			
	<b><u>PILING &amp; GROUND IMPROVEMENT</u></b>			
	<b>Rigid inclusion (RI) ground improvement</b>			
	1	Establishment on site for rigid inclusions including demobilisation and remobilisation for phased construction	Sum	
	2	Move equipment to and set up at each RI position	Sum	
	<b>Form hole for RIs of 750 mm diameter through material situated in the following successive depth ranges (measured from dredged seabed level):</b>			
	3	Over 0m and up to 5 m.	Sum	
	4	Over 5m and up to 10 m.	Sum	
	5	Over 10m and up to 15 m.	Sum	
	6	Over 15 and up to 20 m.	Sum	
	7	Over 20 and up to 25 m.	Sum	
	8	Over 25 and up to 30 m.	Sum	
	<b>Extra over D1.3, irrespective of depth, for forming holes through obstructions consisting of:</b>			
	9	Cobbles, rock rubble or boulders of average dimension between 76 mm and 500 mm	Sum	
	10	Fibre reinforced concrete (28 day cube strength = 45 Mpa) to piles	Sum	
	<b>Temporary Sheet pile / Combination pile walls</b>			
	11	Establishment on site for sheetpiling including mobilisation for phase 1 works and phase 3 works	Sum	
	<b>Move equipment to and set up at pile positions</b>			
	12	HZ 880M C-C23 piles	Sum	
	13	HZ 880M C-12/AZ18-700 combination pile	Sum	
	14	HZ 880M C-24/AZ18-700 combination pile	Sum	
15	HZ880M-C-C1 pile	Sum		
16	HZ880M-C Special corner pile	Sum		
<b>Manufacture, supply and deliver prefabricated piles (including connectors) consisting of</b>				
17	HZ 880M C-C23 pile pairs (576 kg/m)	Sum		
18	HZ 880M C-12/AZ18-700 combination pile (451 kg/m)	Sum		
19	HZ 880M C-24/AZ18-700 combination pile (741 kg/m)	Sum		
20	HZ880M-C-C1 pile (283 kg/m)	Sum		
21	HZ880M-C Special corner pile ex 3xHZ880M-C Piles (630 kg/m)	Sum		
Amount carried forward				

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
22	C9 Corner Connector (9.3 kg/m)	Sum	
23	RZU Corner Connector (9.3 kg/m)	Sum	
<b>Reinforce pile toe for driving through stone and rock rubble</b>			
24	HZ 880M C-C23 pile pair toe modifications	Sum	
25	HZ880-C-C1 pile toe modifications	Sum	
26	Extra over for grouting attachments for HZ 880M C-C23 tie in pile	Sum	
<b>Install prefabricated piles through material in the following depth ranges</b>			
<b>HZ 880M C-C23 pile pairs</b>			
27	Up to 20m.	Sum	
28	Over 20 and up to 30m.	Sum	
<b>HZ 880M C-12/AZ18-700 combination pile</b>			
29	Up to 20m.	Sum	
30	HZ 880M C-24/AZ18-700 combination pile		
31	Up to 20m.	Sum	
32	Over 20 and up to 30m.	Sum	
33	Over 30 and up to 40m.	Sum	
<b>HZ880-C-C1 pile</b>			
34	Up to 20m.	Sum	
35	Over 20 and up to 30m.	Sum	
36	Over 30 and up to 40m.	Sum	
<b>HZ880M-C Special corner pile</b>			
37	Up to 20m.	Sum	
38	Over 20 and up to 30m.	Sum	
<b>Extra over D2.4, irrespective of depth, for driving piles through obstructions consisting of existing foundation trench rockfill up to 76mm diameter</b>			
39	HZ 880M C-C23 pile pairs (576 kg/m)	Sum	
40	HZ880M-C-C1 pile (283 kg/m)	Sum	
41	HZ880M-C Special corner pile ex 3xHZ880M-C Piles (630 kg/m)	Sum	
42	<b>Extra over D2.4 to deal with scour rock up 1.5m thick, 500mm boulder diameter size before driving HZ880M-C-C1 pile</b> Cut prefabricated piles to specified level	Sum	
43	HZ 880M C-C23 pile pairs	Sum	
44	HZ 880M C-12/AZ18-700 combination pile	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
45	HZ 880M C-24/AZ18-700 combination pile	Sum	
46	HZ880M-C-C1 pile	Sum	
47	HZ880M-C Special corner pile	Sum	
48	Construct grouted seal at sheetpile / existing quay wall interface	Sum	
<b>Tie rods and walers</b>			
49	Supply and install 90mm diameter tie rod	Sum	
50	Supply and install perpendicular connection between tie rod and HZ880M piles	Sum	
51	Supply and install angled connection between tie rod and HZ880 pile waler	Sum	
52	Supply and install back to back channel waler (2 x PC 300 x 100)	Sum	
<b>Piling for cellular steel caissons</b>			
53	Establishment on site for piling including all templates, guides etc	Sum	
<b>Move equipment to and set up including all guides, templates etc at:</b>			
54	Circular steel cells	Sum	
55	Junction Arcs	Sum	
<b>Manufacture, supply and deliver piles:</b>			
56	Straight web sheet pile AS 500-12.5 x 31m long	Sum	
57	AS 500 Bent Piles -12.5 x 31m long	Sum	
58	Junction Pile Type BP 35 x 31m long	Sum	
<b>Install piles</b>			
59	Straight web and bent sheet pile AS 500-12.5 x 31m long	Sum	
60	Junction Pile Type BP 35 x 31m long	Sum	
<b>Cut prefabricated piles to specified level</b>			
61	Straight web sheet pile AS 500-12.5 x 31m long	Sum	
62	Cut opening in piles to allow for stormwater pipe installation	Sum	
<b>Corrossion Protection</b>			
63	Supply and install 40 x 40 x 6mm, 75mm long, anode cleats (including holes)	Sum	
64	Supply 2000 x 190 x 120mm bolt-on aluminium anode including straps	Sum	
65	Install aluminium anodes	Sum	
66	Glass flake epoxy coating to piles	Sum	
<b>Lot 10 stabilisation piling</b>			
67	Establish on site for Lot 10 piling	Sum	
68	Move equipment to and set up at each pile position	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
69	Manufacture, supply and deliver 600mm dia steel tubular piles  <b>Drive permanent steel tube piles of diameter 600mm through material situated in the following successive depth ranges</b>	Sum	
70	Over 0m and up to 10m.	Sum	
71	Over 10m and up to 15m.	Sum	
72	Strip/cut pile heads to level  <b>Driven Cast Insitu Piling (DCIS) - Rear crane rail and Bollard support</b>	Sum	
73	Establish on site for DCIS piling	Sum	
74	Move equipment to and set up at each pile position  <b>Drive temporary casing for Driven Displacement Piling System to form holes for piles of 600mm diameter through material situated in the following successive depth ranges</b>	Sum	
75	Over 0m and up to 10m.	Sum	
76	Over 10m and up to 15m.	Sum	
77	Extra over 8.2.6 for raking piles	Sum	
78	Forming of bulbous base for piles of 600mm diameter	Sum	
79	Steel reinforcement in Cast-in-Situ piles	Sum	
80	Concrete for cast-in-situ piles and bulbous bases	Sum	
81	Strip/cut pile heads to level	Sum	
82	Undertake static load test of pile as per specification  <b>Land based exploratory drilling for further site investigation - Provisional Allowance</b>	Sum	
83	Establish on site for exploratory drilling	Sum	
84	Set up drilling rig at each location  <b>Rotary core drilling Nsize 54mm in:</b>	Sum	
85	Category A (Soils and very weak rock with UCS < 3MPa)	Sum	
86	Category B (Soft to hard rock with UCS > 3MPa)	Sum	
87	Concrete	Sum	
88	Cobbles and boulders	Sum	
89	Gravel  <b>Install Nx casings for core drilling in:</b>	Sum	
90	Category A material	Sum	
91	Boulders, cobbles or gravel	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
92	Core and material recovery of category B material	Sum	
93	Core boxes	Sum	
94	Conduct unconfined compressive strength tests on rock cores	Sum	
95	Grouting up of core holes	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
<b>Section E</b>	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost. <b><u>FOUNDATION STONE BED AND SCOUR PROTECTION</u></b>		
	<b>Provide and place geotextile</b>		
1	Reinforcement geotextile placed over RIs	Sum	
2	Separation geotextile covering stone foundation trench	Sum	
3	Separation geotextile covering scour protection trench and slopes	Sum	
	<b>Provide and lay stone and rock for:</b>		
4	D <sub>50</sub> = 90mm/T=500mm Lower Stone Layer for berth scour protection	Sum	
5	D <sub>50</sub> = 90mm/T=750mm Lower Stone Layer for berth scour protection	Sum	
6	D <sub>50</sub> = 540mm/T=850mm Upper Rock Layer for berth scour protection	Sum	
7	D <sub>50</sub> = 90mm/T=200mm Lower Stone Layer for basin scour protection	Sum	
8	D <sub>50</sub> = 230mm/T=350mm Upper Rock Layer for basin scour protection	Sum	
	<b>Provide, lay, compact stone and level for:</b>		
9	60mm <= D <sub>50</sub> <=75mm for stone bed	Sum	
10	Provide, place and remove grouted scour mats for temporary scour protection at phase interfaces	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
Section F	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost. <u>CAISSON QUAY WALL</u>		
	<b>Caisson Manufacture</b>		
1	Establish on site at Lot 10 for Caisson Manufacturing and Launching including mobilising slip form Equipment and Syncrolift	Sum	
	<b>Stabilise Lot 10 launching dock: Structural steel</b>		
2	Manufacture, supply, galvanise and deliver prefabricated struts - Type A including shear connectors	Sum	
3	Manufacture, supply, galvanise and deliver prefabricated piling templates - Type B including shear connectors	Sum	
4	Install prefabricated struts including grouting	Sum	
5	Install prefabricated piling templates including grouting	Sum	
	<b>Formwork</b>		
	<b>Rough finish</b>		
	<b>Plane vertical to</b>		
	<b>Caisson base sides</b>	Sum	
6	Caisson No. 1	Sum	
7	Caisson No. 2	Sum	
8	Caisson No. 3	Sum	
9	Caisson No. 4	Sum	
10	Caisson No. 5	Sum	
11	Caisson No. 6	Sum	
12	Caisson No. 7	Sum	
13	Caisson No. 8	Sum	
14	Caisson No. 9	Sum	
15	Caisson No. 10	Sum	
16	Caisson No. 11	Sum	
17	Caisson No. 12	Sum	
18	Caisson No. 13	Sum	
19	Caisson No. 14	Sum	
20	Caisson No. 15	Sum	
21	Caisson No. 16	Sum	
22	Caisson No. 17	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
23	Caisson No. 18	Sum	
24	Caisson No. 19	Sum	
25	Caisson No. 20	Sum	
26	Caisson No. 21	Sum	
27	Caisson No. 22	Sum	
28	Caisson No. 23	Sum	
29	Caisson No. 24	Sum	
30	Caisson No. 25	Sum	
31	Caisson No. 26	Sum	
32	Caisson No. 27	Sum	
33	Caisson No. 28	Sum	
34	Caisson No. 29	Sum	
35	Caisson No. 30	Sum	
36	Caisson No. 31	Sum	
37	Caisson No. 32	Sum	
38	Caisson No. 33	Sum	
39	Caisson No. 34	Sum	
40	Caisson No. 35	Sum	
41	Caisson No. 36	Sum	
42	Caisson No. 37	Sum	
43	Caisson No. 38	Sum	
44	Caisson No. 39	Sum	
45	Caisson No. 40	Sum	
46	Caisson No. 41	Sum	
47	Caisson No. 42	Sum	
48	Caisson No. 43	Sum	
49	Caisson No. 44	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
50	Caisson No. 45	Sum	
51	Caisson No. 46	Sum	
52	Caisson No. 47	Sum	
53	Caisson No. 48	Sum	
54	Caisson No. 49	Sum	
55	Caisson No. 50	Sum	
56	Caisson No. 51	Sum	
57	Caisson No. 52	Sum	
58	Caisson No. 53	Sum	
59	Caisson No. 54	Sum	
60	Caisson No. 55	Sum	
61	Caisson No. 56	Sum	
62	Caisson No. 57	Sum	
63	Caisson No. 58	Sum	
64	Caisson No. 59	Sum	
65	Caisson No. 60	Sum	
66	Caisson No. 61	Sum	
67	Caisson No. 62	Sum	
68	Caisson No. 63	Sum	
69	Caisson No. 64	Sum	
70	Caisson No. 65	Sum	
71	Caisson No. 66	Sum	
72	Caisson No. 67	Sum	
73	Caisson No. 68	Sum	
74	Caisson No. 69	Sum	
75	Caisson No. 70	Sum	
76	Caisson No. 71	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
77	Caisson No. 72	Sum	
78	Caisson No. 73	Sum	
79	Caisson No. 74	Sum	
80	Caisson No. 75	Sum	
81	Caisson No. 76	Sum	
82	Caisson No. 77	Sum	
	<b>Caisson cross walls</b>	Sum	
83	Caisson No. 1	Sum	
84	Caisson No. 2	Sum	
85	Caisson No. 3	Sum	
86	Caisson No. 4	Sum	
87	Caisson No. 5	Sum	
88	Caisson No. 6	Sum	
89	Caisson No. 7	Sum	
90	Caisson No. 8	Sum	
91	Caisson No. 9	Sum	
92	Caisson No. 10	Sum	
93	Caisson No. 11	Sum	
94	Caisson No. 12	Sum	
95	Caisson No. 13	Sum	
96	Caisson No. 14	Sum	
97	Caisson No. 15	Sum	
98	Caisson No. 16	Sum	
99	Caisson No. 17	Sum	
100	Caisson No. 18	Sum	
101	Caisson No. 19	Sum	
102	Caisson No. 20	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
103	Caisson No. 21	Sum	
104	Caisson No. 22	Sum	
105	Caisson No. 23	Sum	
106	Caisson No. 24	Sum	
107	Caisson No. 25	Sum	
108	Caisson No. 26	Sum	
109	Caisson No. 27	Sum	
110	Caisson No. 28	Sum	
111	Caisson No. 29	Sum	
112	Caisson No. 30	Sum	
113	Caisson No. 31	Sum	
114	Caisson No. 32	Sum	
115	Caisson No. 33	Sum	
116	Caisson No. 34	Sum	
117	Caisson No. 35	Sum	
118	Caisson No. 36	Sum	
119	Caisson No. 37	Sum	
120	Caisson No. 38	Sum	
121	Caisson No. 39	Sum	
122	Caisson No. 40	Sum	
123	Caisson No. 41	Sum	
124	Caisson No. 42	Sum	
125	Caisson No. 43	Sum	
126	Caisson No. 44	Sum	
127	Caisson No. 45	Sum	
128	Caisson No. 46	Sum	
129	Caisson No. 47	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
130	Caisson No. 48	Sum	
131	Caisson No. 49	Sum	
132	Caisson No. 50	Sum	
133	Caisson No. 51	Sum	
134	Caisson No. 52	Sum	
135	Caisson No. 53	Sum	
136	Caisson No. 54	Sum	
137	Caisson No. 55	Sum	
138	Caisson No. 56	Sum	
139	Caisson No. 57	Sum	
140	Caisson No. 58	Sum	
141	Caisson No. 59	Sum	
142	Caisson No. 60	Sum	
143	Caisson No. 61	Sum	
144	Caisson No. 62	Sum	
145	Caisson No. 63	Sum	
146	Caisson No. 64	Sum	
147	Caisson No. 65	Sum	
148	Caisson No. 66	Sum	
149	Caisson No. 67	Sum	
150	Caisson No. 68	Sum	
151	Caisson No. 69	Sum	
152	Caisson No. 70	Sum	
153	Caisson No. 71	Sum	
154	Caisson No. 72	Sum	
155	Caisson No. 73	Sum	
156	Caisson No. 74	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
157	Caisson No. 75	Sum	
158	Caisson No. 76	Sum	
159	Caisson No. 77	Sum	
<b>Curved vertical to Inner caisson walls</b>		Sum	
160	Caisson No. 1	Sum	
161	Caisson No. 2	Sum	
162	Caisson No. 3	Sum	
163	Caisson No. 4	Sum	
164	Caisson No. 5	Sum	
165	Caisson No. 6	Sum	
166	Caisson No. 7	Sum	
167	Caisson No. 8	Sum	
168	Caisson No. 9	Sum	
169	Caisson No. 10	Sum	
170	Caisson No. 11	Sum	
171	Caisson No. 12	Sum	
172	Caisson No. 13	Sum	
173	Caisson No. 14	Sum	
174	Caisson No. 15	Sum	
175	Caisson No. 16	Sum	
176	Caisson No. 17	Sum	
177	Caisson No. 18	Sum	
178	Caisson No. 19	Sum	
179	Caisson No. 20	Sum	
180	Caisson No. 21	Sum	
181	Caisson No. 22	Sum	
182	Caisson No. 23	Sum	
183	Caisson No. 24	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
184	Caisson No. 25	Sum	
185	Caisson No. 26	Sum	
186	Caisson No. 27	Sum	
187	Caisson No. 28	Sum	
188	Caisson No. 29	Sum	
189	Caisson No. 30	Sum	
190	Caisson No. 31	Sum	
191	Caisson No. 32	Sum	
192	Caisson No. 33	Sum	
193	Caisson No. 34	Sum	
194	Caisson No. 35	Sum	
195	Caisson No. 36	Sum	
196	Caisson No. 37	Sum	
197	Caisson No. 38	Sum	
198	Caisson No. 39	Sum	
199	Caisson No. 40	Sum	
200	Caisson No. 41	Sum	
201	Caisson No. 42	Sum	
202	Caisson No. 43	Sum	
203	Caisson No. 44	Sum	
204	Caisson No. 45	Sum	
205	Caisson No. 46	Sum	
206	Caisson No. 47	Sum	
207	Caisson No. 48	Sum	
208	Caisson No. 49	Sum	
209	Caisson No. 50	Sum	
210	Caisson No. 51	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
211	Caisson No. 52	Sum	
212	Caisson No. 53	Sum	
213	Caisson No. 54	Sum	
214	Caisson No. 55	Sum	
215	Caisson No. 56	Sum	
216	Caisson No. 57	Sum	
217	Caisson No. 58	Sum	
218	Caisson No. 59	Sum	
219	Caisson No. 60	Sum	
220	Caisson No. 61	Sum	
221	Caisson No. 62	Sum	
222	Caisson No. 63	Sum	
223	Caisson No. 64	Sum	
224	Caisson No. 65	Sum	
225	Caisson No. 66	Sum	
226	Caisson No. 67	Sum	
227	Caisson No. 68	Sum	
228	Caisson No. 69	Sum	
229	Caisson No. 70	Sum	
230	Caisson No. 71	Sum	
231	Caisson No. 72	Sum	
232	Caisson No. 73	Sum	
233	Caisson No. 74	Sum	
234	Caisson No. 75	Sum	
235	Caisson No. 76	Sum	
236	Caisson No. 77	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
	<b>Plane vertical to</b>	Sum	
	<b>Outer caisson wall surface including caisson nibs, chamfers and narrow widths</b>	Sum	
237	Caisson No. 1	Sum	
238	Caisson No. 2	Sum	
239	Caisson No. 3	Sum	
240	Caisson No. 4	Sum	
241	Caisson No. 5	Sum	
242	Caisson No. 6	Sum	
243	Caisson No. 7	Sum	
244	Caisson No. 8	Sum	
245	Caisson No. 9	Sum	
246	Caisson No. 10	Sum	
247	Caisson No. 11	Sum	
248	Caisson No. 12	Sum	
249	Caisson No. 13	Sum	
250	Caisson No. 14	Sum	
251	Caisson No. 15	Sum	
252	Caisson No. 16	Sum	
253	Caisson No. 17	Sum	
254	Caisson No. 18	Sum	
255	Caisson No. 19	Sum	
256	Caisson No. 20	Sum	
257	Caisson No. 21	Sum	
258	Caisson No. 22	Sum	
259	Caisson No. 23	Sum	
260	Caisson No. 24	Sum	
261	Caisson No. 25	Sum	
262	Caisson No. 26	Sum	
263	Caisson No. 27	Sum	
264	Caisson No. 28	Sum	
265	Caisson No. 29	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
266	Caisson No. 30	Sum	
267	Caisson No. 31	Sum	
268	Caisson No. 32	Sum	
269	Caisson No. 33	Sum	
270	Caisson No. 34	Sum	
271	Caisson No. 35	Sum	
272	Caisson No. 36	Sum	
273	Caisson No. 37	Sum	
274	Caisson No. 38	Sum	
275	Caisson No. 39	Sum	
276	Caisson No. 40	Sum	
277	Caisson No. 41	Sum	
278	Caisson No. 42	Sum	
279	Caisson No. 43	Sum	
280	Caisson No. 44	Sum	
281	Caisson No. 45	Sum	
282	Caisson No. 46	Sum	
283	Caisson No. 47	Sum	
284	Caisson No. 48	Sum	
285	Caisson No. 49	Sum	
286	Caisson No. 50	Sum	
287	Caisson No. 51	Sum	
288	Caisson No. 52	Sum	
289	Caisson No. 53	Sum	
290	Caisson No. 54	Sum	
291	Caisson No. 55	Sum	
292	Caisson No. 56	Sum	
293	Caisson No. 57	Sum	
294	Caisson No. 58	Sum	
295	Caisson No. 59	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
296	Caisson No. 60	Sum	
297	Caisson No. 61	Sum	
298	Caisson No. 62	Sum	
299	Caisson No. 63	Sum	
300	Caisson No. 64	Sum	
301	Caisson No. 65	Sum	
302	Caisson No. 66	Sum	
303	Caisson No. 67	Sum	
304	Caisson No. 68	Sum	
305	Caisson No. 69	Sum	
306	Caisson No. 70	Sum	
307	Caisson No. 71	Sum	
308	Caisson No. 72	Sum	
309	Caisson No. 73	Sum	
310	Caisson No. 74	Sum	
311	Caisson No. 75	Sum	
312	Caisson No. 76	Sum	
313	Caisson No. 77	Sum	
	<b>Curved vertical to</b>		
	<b>Outer caisson wall surface</b>	Sum	
314	Caisson No. 1	Sum	
315	Caisson No. 2	Sum	
316	Caisson No. 3	Sum	
317	Caisson No. 4	Sum	
318	Caisson No. 5	Sum	
319	Caisson No. 6	Sum	
320	Caisson No. 7	Sum	
321	Caisson No. 8	Sum	
322	Caisson No. 9	Sum	
323	Caisson No. 10	Sum	
324	Caisson No. 11	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
325	Caisson No. 12	Sum	
326	Caisson No. 13	Sum	
327	Caisson No. 14	Sum	
328	Caisson No. 15	Sum	
329	Caisson No. 16	Sum	
330	Caisson No. 17	Sum	
331	Caisson No. 18	Sum	
332	Caisson No. 19	Sum	
333	Caisson No. 20	Sum	
334	Caisson No. 21	Sum	
335	Caisson No. 22	Sum	
336	Caisson No. 23	Sum	
337	Caisson No. 24	Sum	
338	Caisson No. 25	Sum	
339	Caisson No. 26	Sum	
340	Caisson No. 27	Sum	
341	Caisson No. 28	Sum	
342	Caisson No. 29	Sum	
343	Caisson No. 30	Sum	
344	Caisson No. 31	Sum	
345	Caisson No. 32	Sum	
346	Caisson No. 33	Sum	
347	Caisson No. 34	Sum	
348	Caisson No. 35	Sum	
349	Caisson No. 36	Sum	
350	Caisson No. 37	Sum	
351	Caisson No. 38	Sum	
352	Caisson No. 39	Sum	
353	Caisson No. 40	Sum	
354	Caisson No. 41	Sum	
355	Caisson No. 42	Sum	
356	Caisson No. 43	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
357	Caisson No. 44	Sum	
358	Caisson No. 45	Sum	
359	Caisson No. 46	Sum	
360	Caisson No. 47	Sum	
361	Caisson No. 48	Sum	
362	Caisson No. 49	Sum	
363	Caisson No. 50	Sum	
364	Caisson No. 51	Sum	
365	Caisson No. 52	Sum	
366	Caisson No. 53	Sum	
367	Caisson No. 54	Sum	
368	Caisson No. 55	Sum	
369	Caisson No. 56	Sum	
370	Caisson No. 57	Sum	
371	Caisson No. 58	Sum	
372	Caisson No. 59	Sum	
373	Caisson No. 60	Sum	
374	Caisson No. 61	Sum	
375	Caisson No. 62	Sum	
376	Caisson No. 63	Sum	
377	Caisson No. 64	Sum	
378	Caisson No. 65	Sum	
379	Caisson No. 66	Sum	
380	Caisson No. 67	Sum	
381	Caisson No. 68	Sum	
382	Caisson No. 69	Sum	
383	Caisson No. 70	Sum	
384	Caisson No. 71	Sum	
385	Caisson No. 72	Sum	
386	Caisson No. 73	Sum	
387	Caisson No. 74	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
388	Caisson No. 75	Sum	
389	Caisson No. 76	Sum	
390	Caisson No. 77	Sum	
	<b>Special off-form finish Washboard finish to caisson base</b>	Sum	
391	Caisson No. 1	Sum	
392	Caisson No. 2	Sum	
393	Caisson No. 3	Sum	
394	Caisson No. 4	Sum	
395	Caisson No. 5	Sum	
396	Caisson No. 6	Sum	
397	Caisson No. 7	Sum	
398	Caisson No. 8	Sum	
399	Caisson No. 9	Sum	
400	Caisson No. 10	Sum	
401	Caisson No. 11	Sum	
402	Caisson No. 12	Sum	
403	Caisson No. 13	Sum	
404	Caisson No. 14	Sum	
405	Caisson No. 15	Sum	
406	Caisson No. 16	Sum	
407	Caisson No. 17	Sum	
408	Caisson No. 18	Sum	
409	Caisson No. 19	Sum	
410	Caisson No. 20	Sum	
411	Caisson No. 21	Sum	
412	Caisson No. 22	Sum	
413	Caisson No. 23	Sum	
414	Caisson No. 24	Sum	
415	Caisson No. 25	Sum	
416	Caisson No. 26	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
417	Caisson No. 27	Sum	
418	Caisson No. 28	Sum	
419	Caisson No. 29	Sum	
420	Caisson No. 30	Sum	
421	Caisson No. 31	Sum	
422	Caisson No. 32	Sum	
423	Caisson No. 33	Sum	
424	Caisson No. 34	Sum	
425	Caisson No. 35	Sum	
426	Caisson No. 36	Sum	
427	Caisson No. 37	Sum	
428	Caisson No. 38	Sum	
429	Caisson No. 39	Sum	
430	Caisson No. 40	Sum	
431	Caisson No. 41	Sum	
432	Caisson No. 42	Sum	
433	Caisson No. 43	Sum	
434	Caisson No. 44	Sum	
435	Caisson No. 45	Sum	
436	Caisson No. 46	Sum	
437	Caisson No. 47	Sum	
438	Caisson No. 48	Sum	
439	Caisson No. 49	Sum	
440	Caisson No. 50	Sum	
441	Caisson No. 51	Sum	
442	Caisson No. 52	Sum	
443	Caisson No. 53	Sum	
444	Caisson No. 54	Sum	
445	Caisson No. 55	Sum	
446	Caisson No. 56	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
447	Caisson No. 57	Sum	
448	Caisson No. 58	Sum	
449	Caisson No. 59	Sum	
450	Caisson No. 60	Sum	
451	Caisson No. 61	Sum	
452	Caisson No. 62	Sum	
453	Caisson No. 63	Sum	
454	Caisson No. 64	Sum	
455	Caisson No. 65	Sum	
456	Caisson No. 66	Sum	
457	Caisson No. 67	Sum	
458	Caisson No. 68	Sum	
459	Caisson No. 69	Sum	
460	Caisson No. 70	Sum	
461	Caisson No. 71	Sum	
462	Caisson No. 72	Sum	
463	Caisson No. 73	Sum	
464	Caisson No. 74	Sum	
465	Caisson No. 75	Sum	
466	Caisson No. 76	Sum	
467	Caisson No. 77	Sum	
	<b>Box Out Holes / Form Voids</b>		
	<b>Form voids in cross walls of caissons</b>	Sum	
	<b>Form 78 m<sup>2</sup> void in cross wall of caisson typical</b>	Sum	
468	Caisson No. 1	Sum	
469	Caisson No. 2	Sum	
470	Caisson No. 3	Sum	
471	Caisson No. 4	Sum	
472	Caisson No. 5	Sum	
473	Caisson No. 6	Sum	
474	Caisson No. 7	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
475	Caisson No. 8	Sum	
476	Caisson No. 9	Sum	
477	Caisson No. 10	Sum	
478	Caisson No. 11	Sum	
479	Caisson No. 12	Sum	
480	Caisson No. 13	Sum	
481	Caisson No. 14	Sum	
482	Caisson No. 15	Sum	
483	Caisson No. 16	Sum	
484	Caisson No. 17	Sum	
485	Caisson No. 18	Sum	
486	Caisson No. 19	Sum	
487	Caisson No. 20	Sum	
488	Caisson No. 21	Sum	
489	Caisson No. 22	Sum	
490	Caisson No. 23	Sum	
491	Caisson No. 24	Sum	
492	Caisson No. 25	Sum	
493	Caisson No. 26	Sum	
494	Caisson No. 27	Sum	
495	Caisson No. 28	Sum	
496	Caisson No. 29	Sum	
497	Caisson No. 30	Sum	
498	Caisson No. 31	Sum	
499	Caisson No. 32	Sum	
500	Caisson No. 33	Sum	
501	Caisson No. 34	Sum	
502	Caisson No. 35	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
503	Caisson No. 36	Sum	
504	Caisson No. 37	Sum	
505	Caisson No. 38	Sum	
506	Caisson No. 39	Sum	
507	Caisson No. 40	Sum	
508	Caisson No. 41	Sum	
509	Caisson No. 42	Sum	
510	Caisson No. 43	Sum	
511	Caisson No. 44	Sum	
512	Caisson No. 45	Sum	
513	Caisson No. 46	Sum	
514	Caisson No. 47	Sum	
515	Caisson No. 48	Sum	
516	Caisson No. 49	Sum	
517	Caisson No. 50	Sum	
518	Caisson No. 51	Sum	
519	Caisson No. 52	Sum	
520	Caisson No. 53	Sum	
521	Caisson No. 54	Sum	
522	Caisson No. 55	Sum	
523	Caisson No. 56	Sum	
524	Caisson No. 57	Sum	
525	Caisson No. 58	Sum	
526	Caisson No. 59	Sum	
527	Caisson No. 60	Sum	
528	Caisson No. 61	Sum	
529	Caisson No. 62	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
530	Caisson No. 63	Sum	
531	Caisson No. 64	Sum	
532	Caisson No. 65	Sum	
533	Caisson No. 66	Sum	
534	Caisson No. 67	Sum	
535	Caisson No. 68	Sum	
536	Caisson No. 69	Sum	
537	Caisson No. 70	Sum	
538	Caisson No. 71	Sum	
	<b>Form 57 m<sup>2</sup> void in cross wall of caisson type 4</b>	Sum	
539	Caisson 1	Sum	
540	Caisson 2	Sum	
541	Caisson 3	Sum	
	<b>Form 36 m<sup>2</sup> void in cross wall of caisson type 5&amp;8</b>	Sum	
542	Caisson 1	Sum	
543	Caisson 2	Sum	
544	Caisson 3	Sum	
	<b>Form void in caisson wall for storm water pipe diameter 900mm including casting in of connection gasket</b>	Sum	
545	Caisson No. 1	Sum	
546	Caisson No. 2	Sum	
547	Caisson No. 3	Sum	
548	Caisson No. 4	Sum	
549	Caisson No. 5	Sum	
550	Caisson No. 6	Sum	
551	Caisson No. 7	Sum	
552	Caisson No. 8	Sum	
553	Caisson No. 9	Sum	
554	Caisson No. 10	Sum	
555	Caisson No. 11	Sum	
556	Caisson No. 12	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
557	Caisson No. 13	Sum	
558	Caisson No. 14	Sum	
559	Caisson No. 15	Sum	
560	Caisson No. 16	Sum	
561	Caisson No. 17	Sum	
562	Caisson No. 18	Sum	
563	Caisson No. 19	Sum	
564	Caisson No. 20	Sum	
565	Caisson No. 21	Sum	
566	Caisson No. 22	Sum	
567	Caisson No. 23	Sum	
568	Caisson No. 24	Sum	
569	Caisson No. 25	Sum	
570	Caisson No. 26	Sum	
571	Caisson No. 27	Sum	
572	Caisson No. 28	Sum	
573	Caisson No. 29	Sum	
574	Caisson No. 30	Sum	
575	Caisson No. 31	Sum	
576	Caisson No. 32	Sum	
	<b>REINFORCED CONCRETE</b>		
	<b>Grade 40MPa/19mm to caisson base</b>	Sum	
577	Caisson 1	Sum	
578	Caisson 2	Sum	
579	Caisson 3	Sum	
580	Caisson 4	Sum	
581	Caisson 5	Sum	
582	Caisson 6	Sum	
583	Caisson 7	Sum	
584	Caisson 8	Sum	
585	Caisson 9	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
586	Caisson 10	Sum	
587	Caisson 11	Sum	
588	Caisson 12	Sum	
589	Caisson 13	Sum	
590	Caisson 14	Sum	
591	Caisson 15	Sum	
592	Caisson 16	Sum	
593	Caisson 17	Sum	
594	Caisson 18	Sum	
595	Caisson 19	Sum	
596	Caisson 20	Sum	
597	Caisson 21	Sum	
598	Caisson 22	Sum	
599	Caisson 23	Sum	
600	Caisson 24	Sum	
601	Caisson 25	Sum	
602	Caisson 26	Sum	
603	Caisson 27	Sum	
604	Caisson 28	Sum	
605	Caisson 29	Sum	
606	Caisson 30	Sum	
607	Caisson 31	Sum	
608	Caisson 32	Sum	
609	Caisson 33	Sum	
610	Caisson 34	Sum	
611	Caisson 35	Sum	
612	Caisson 36	Sum	
613	Caisson 37	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
614	Caisson 38	Sum	
615	Caisson 39	Sum	
616	Caisson 40	Sum	
617	Caisson 41	Sum	
618	Caisson 42	Sum	
619	Caisson 43	Sum	
620	Caisson 44	Sum	
621	Caisson 45	Sum	
622	Caisson 46	Sum	
623	Caisson 47	Sum	
624	Caisson 48	Sum	
625	Caisson 49	Sum	
626	Caisson 50	Sum	
627	Caisson 51	Sum	
628	Caisson 52	Sum	
629	Caisson 53	Sum	
630	Caisson 54	Sum	
631	Caisson 55	Sum	
632	Caisson 56	Sum	
633	Caisson 57	Sum	
634	Caisson 58	Sum	
635	Caisson 59	Sum	
636	Caisson 60	Sum	
637	Caisson 61	Sum	
638	Caisson 62	Sum	
639	Caisson 63	Sum	
640	Caisson 64	Sum	
641	Caisson 65	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
642	Caisson 66	Sum	
643	Caisson 67	Sum	
644	Caisson 68	Sum	
645	Caisson 69	Sum	
646	Caisson 70	Sum	
647	Caisson 71	Sum	
648	Caisson 72	Sum	
649	Caisson 73	Sum	
650	Caisson 74	Sum	
651	Caisson 75	Sum	
652	Caisson 76	Sum	
653	Caisson 77	Sum	
	<b>Grade 40MPa/19mm to caisson walls and nibs</b>	Sum	
654	Caisson 1	Sum	
655	Caisson 2	Sum	
656	Caisson 3	Sum	
657	Caisson 4	Sum	
658	Caisson 5	Sum	
659	Caisson 6	Sum	
660	Caisson 7	Sum	
661	Caisson 8	Sum	
662	Caisson 9	Sum	
663	Caisson 10	Sum	
664	Caisson 11	Sum	
665	Caisson 12	Sum	
666	Caisson 13	Sum	
667	Caisson 14	Sum	
668	Caisson 15	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
669	Caisson 16	Sum	
670	Caisson 17	Sum	
671	Caisson 18	Sum	
672	Caisson 19	Sum	
673	Caisson 20	Sum	
674	Caisson 21	Sum	
675	Caisson 22	Sum	
676	Caisson 23	Sum	
677	Caisson 24	Sum	
678	Caisson 25	Sum	
679	Caisson 26	Sum	
680	Caisson 27	Sum	
681	Caisson 28	Sum	
682	Caisson 29	Sum	
683	Caisson 30	Sum	
684	Caisson 31	Sum	
685	Caisson 32	Sum	
686	Caisson 33	Sum	
687	Caisson 34	Sum	
688	Caisson 35	Sum	
689	Caisson 36	Sum	
690	Caisson 37	Sum	
691	Caisson 38	Sum	
692	Caisson 39	Sum	
693	Caisson 40	Sum	
694	Caisson 41	Sum	
695	Caisson 42	Sum	
696	Caisson 43	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
697	Caisson 44	Sum	
698	Caisson 45	Sum	
699	Caisson 46	Sum	
700	Caisson 47	Sum	
701	Caisson 48	Sum	
702	Caisson 49	Sum	
703	Caisson 50	Sum	
704	Caisson 51	Sum	
705	Caisson 52	Sum	
706	Caisson 53	Sum	
707	Caisson 54	Sum	
708	Caisson 55	Sum	
709	Caisson 56	Sum	
710	Caisson 57	Sum	
711	Caisson 58	Sum	
712	Caisson 59	Sum	
713	Caisson 60	Sum	
714	Caisson 61	Sum	
715	Caisson 62	Sum	
716	Caisson 63	Sum	
717	Caisson 64	Sum	
718	Caisson 65	Sum	
719	Caisson 66	Sum	
720	Caisson 67	Sum	
721	Caisson 68	Sum	
722	Caisson 69	Sum	
723	Caisson 70	Sum	
724	Caisson 71	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
725	Caisson 72	Sum	
726	Caisson 73	Sum	
727	Caisson 74	Sum	
728	Caisson 75	Sum	
729	Caisson 76	Sum	
730	Caisson 77	Sum	
<b>REINFORCEMENT (Mild steel, which is used in small quantities is not measured separately and is included with the quantities for high tensile bars)</b>			
<b>High Tensile Bars (fy = 450 MPa)</b>			
731	Nominal diameter 25mm, basic price	Sum	
<b>Extra over or under F1.5.1.1 for bars of diameter</b>			
732	10mm	Sum	
733	12mm	Sum	
734	16mm	Sum	
735	20mm	Sum	
736	32mm	Sum	
<b>Unformed surface finishes: Wood float finish to Caisson base</b>			
737	Caisson No. 1	Sum	
738	Caisson No. 2	Sum	
739	Caisson No. 3	Sum	
740	Caisson No. 4	Sum	
741	Caisson No. 5	Sum	
742	Caisson No. 6	Sum	
743	Caisson No. 7	Sum	
744	Caisson No. 8	Sum	
745	Caisson No. 9	Sum	
746	Caisson No. 10	Sum	
747	Caisson No. 11	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
748	Caisson No. 12	Sum	
749	Caisson No. 13	Sum	
750	Caisson No. 14	Sum	
751	Caisson No. 15	Sum	
752	Caisson No. 16	Sum	
753	Caisson No. 17	Sum	
754	Caisson No. 18	Sum	
755	Caisson No. 19	Sum	
756	Caisson No. 20	Sum	
757	Caisson No. 21	Sum	
758	Caisson No. 22	Sum	
759	Caisson No. 23	Sum	
760	Caisson No. 24	Sum	
761	Caisson No. 25	Sum	
762	Caisson No. 26	Sum	
763	Caisson No. 27	Sum	
764	Caisson No. 28	Sum	
765	Caisson No. 29	Sum	
766	Caisson No. 30	Sum	
767	Caisson No. 31	Sum	
768	Caisson No. 32	Sum	
769	Caisson No. 33	Sum	
770	Caisson No. 34	Sum	
771	Caisson No. 35	Sum	
772	Caisson No. 36	Sum	
773	Caisson No. 37	Sum	
774	Caisson No. 38	Sum	
775	Caisson No. 39	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
776	Caisson No. 40	Sum	
777	Caisson No. 41	Sum	
778	Caisson No. 42	Sum	
779	Caisson No. 43	Sum	
780	Caisson No. 44	Sum	
781	Caisson No. 45	Sum	
782	Caisson No. 46	Sum	
783	Caisson No. 47	Sum	
784	Caisson No. 48	Sum	
785	Caisson No. 49	Sum	
786	Caisson No. 50	Sum	
787	Caisson No. 51	Sum	
788	Caisson No. 52	Sum	
789	Caisson No. 53	Sum	
790	Caisson No. 54	Sum	
791	Caisson No. 55	Sum	
792	Caisson No. 56	Sum	
793	Caisson No. 57	Sum	
794	Caisson No. 58	Sum	
795	Caisson No. 59	Sum	
796	Caisson No. 60	Sum	
797	Caisson No. 61	Sum	
798	Caisson No. 62	Sum	
799	Caisson No. 63	Sum	
800	Caisson No. 64	Sum	
801	Caisson No. 65	Sum	
802	Caisson No. 66	Sum	
803	Caisson No. 67	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
804	Caisson No. 68	Sum	
805	Caisson No. 69	Sum	
806	Caisson No. 70	Sum	
807	Caisson No. 71	Sum	
808	Caisson No. 72	Sum	
809	Caisson No. 73	Sum	
810	Caisson No. 74	Sum	
811	Caisson No. 75	Sum	
812	Caisson No. 76	Sum	
813	Caisson No. 77	Sum	
	<b>Caisson walls</b>	Sum	
814	Caisson No. 1	Sum	
815	Caisson No. 2	Sum	
816	Caisson No. 3	Sum	
817	Caisson No. 4	Sum	
818	Caisson No. 5	Sum	
819	Caisson No. 6	Sum	
820	Caisson No. 7	Sum	
821	Caisson No. 8	Sum	
822	Caisson No. 9	Sum	
823	Caisson No. 10	Sum	
824	Caisson No. 11	Sum	
825	Caisson No. 12	Sum	
826	Caisson No. 13	Sum	
827	Caisson No. 14	Sum	
828	Caisson No. 15	Sum	
829	Caisson No. 16	Sum	
830	Caisson No. 17	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
831	Caisson No. 18	Sum	
832	Caisson No. 19	Sum	
833	Caisson No. 20	Sum	
834	Caisson No. 21	Sum	
835	Caisson No. 22	Sum	
836	Caisson No. 23	Sum	
837	Caisson No. 24	Sum	
838	Caisson No. 25	Sum	
839	Caisson No. 26	Sum	
840	Caisson No. 27	Sum	
841	Caisson No. 28	Sum	
842	Caisson No. 29	Sum	
843	Caisson No. 30	Sum	
844	Caisson No. 31	Sum	
845	Caisson No. 32	Sum	
846	Caisson No. 33	Sum	
847	Caisson No. 34	Sum	
848	Caisson No. 35	Sum	
849	Caisson No. 36	Sum	
850	Caisson No. 37	Sum	
851	Caisson No. 38	Sum	
852	Caisson No. 39	Sum	
853	Caisson No. 40	Sum	
854	Caisson No. 41	Sum	
855	Caisson No. 42	Sum	
856	Caisson No. 43	Sum	
857	Caisson No. 44	Sum	
858	Caisson No. 45	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
859	Caisson No. 46	Sum	
860	Caisson No. 47	Sum	
861	Caisson No. 48	Sum	
862	Caisson No. 49	Sum	
863	Caisson No. 50	Sum	
864	Caisson No. 51	Sum	
865	Caisson No. 52	Sum	
866	Caisson No. 53	Sum	
867	Caisson No. 54	Sum	
868	Caisson No. 55	Sum	
869	Caisson No. 56	Sum	
870	Caisson No. 57	Sum	
871	Caisson No. 58	Sum	
872	Caisson No. 59	Sum	
873	Caisson No. 60	Sum	
874	Caisson No. 61	Sum	
875	Caisson No. 62	Sum	
876	Caisson No. 63	Sum	
877	Caisson No. 64	Sum	
878	Caisson No. 65	Sum	
879	Caisson No. 66	Sum	
880	Caisson No. 67	Sum	
881	Caisson No. 68	Sum	
882	Caisson No. 69	Sum	
883	Caisson No. 70	Sum	
884	Caisson No. 71	Sum	
885	Caisson No. 72	Sum	
886	Caisson No. 73	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
887	Caisson No. 74	Sum	
888	Caisson No. 75	Sum	
889	Caisson No. 76	Sum	
890	Caisson No. 77	Sum	
<b>Inserts and Miscellaneous</b>			
891	Supply and cast in 1100mm long x 200mm diameter pipe for caisson drainage	Sum	
<b>Caisson transfer, launching and placing</b>			
892	Design and cast in attachment points in caisson (Contractor to design)	Sum	
893	Transfer caisson base from casting bed to slip form location	Sum	
894	Transfer complete caisson from slipform location to launching dock	Sum	
895	Launch and tow caisson including temporary set down of caisson in storage zone and refloating if required	Sum	
896	Place caisson in final position at quay wall	Sum	
<b>Seals, joints, stone infill and miscellaneous</b>			
897	Graded stone filling in gap between caissons and infill panels	Sum	
898	Form rear seal between Caissons with grout sock, placed and filled in position with graded stone filler as per detail	Sum	
899	Form front seal between Caissons with grout sock placed in position and filled in with 50MPa/9mm grout as per detail	Sum	
900	Form seal between Infill Panel 1 and steel caisson return quay (grout sock and grout)	Sum	
901	Form conveyor belt seal 1m wide at front face of gap between caissons as per detail	Sum	
902	Provide and place filter fabric to:		
903	Top of caisson over stone infill	Sum	
904	Rear of caisson joint	Sum	
905	Over stone bed to rear of caisson	Sum	
906	Over gravel fill for return walls	Sum	
907	Capping beam expansion joint	Sum	
908	Provide and place drainage strip over drainage pipe	Sum	
909	Construct horizontal subsoil drain behind Caisson as per detail	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
<b>Precast concrete infill panels and retaining unit</b>			
<b>Provide Structural Precast Units:</b>			
910	Precast Infill Unit Type 1A	Sum	
911	Precast Infill Unit Type 1B	Sum	
912	Precast Infill Unit Type 1C	Sum	
913	Precast Infill Unit Type 2A	Sum	
914	Precast Infill Unit Type 2B	Sum	
915	Precast Infill Unit Type 2C	Sum	
916	Precast Infill Unit Type 3A	Sum	
917	Precast Infill Unit Type 3B	Sum	
918	Precast Infill Unit Type 3C	Sum	
919	Precast Infill Unit Type 4A	Sum	
920	Precast Infill Unit Type 4B	Sum	
921	Precast Infill Unit Type 4C	Sum	
922	Precast Retaining Unit Type 1	Sum	
<b>Erection and installation of Structural Precast Units including all temporary works, launching, towing etc.:</b>			
923	Precast Infill Unit Type 1A	Sum	
924	Precast Infill Unit Type 1B	Sum	
925	Precast Infill Unit Type 1C	Sum	
926	Precast Infill Unit Type 2A	Sum	
927	Precast Infill Unit Type 2B	Sum	
928	Precast Infill Unit Type 2C	Sum	
929	Precast Infill Unit Type 3A	Sum	
930	Precast Infill Unit Type 3B	Sum	
931	Precast Infill Unit Type 3C	Sum	
932	Precast Infill Unit Type 4A	Sum	
933	Precast Infill Unit Type 4B	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
934	Precast Infill Unit Type 4C	Sum	
935	Precast Retaining Unit Type 1	Sum	
<b><u>GABION RETAINING WALL AT RETURN CAISSON BASES</u></b>			
936	Surface preparation for bedding of gabions (Cavities to be filled with approved foundation stone material)	Sum	
937	Supply and install gabions	Sum	
<b>Miscellaneous</b>			
938	Monitoring of quay wall	Sum	
939	Turbidity and desolve oxygen monitoring	Sum	
940	Fencing New Jersey Barriers for phase 1 and phase 2 and later relocate then reuse in phase 3	Sum	
941	Tide in current monitoring	Sum	
942	Stop blocks	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.			
<b>Section G</b>	<b><u>CAPPING BEAM, SERVICE TUNNEL, REAR CRANE RAIL BEAM AND QUAY FURNITURE</u></b>		
<b>Precast Concrete Cope Panel</b> <b>Provide Structural Precast Units:</b>			
1	Type 1A	Sum	
2	Type 1B	Sum	
3	Type 2A	Sum	
4	Type 3	Sum	
5	Type 4	Sum	
6	Type 5	Sum	
7	Type 6	Sum	
8	Type 7	Sum	
9	Type 8	Sum	
10	Type 9	Sum	
11	Type 10	Sum	
<b>Erection and installation of Structural Precast Units including all temporary works:</b>			
12	Type 1A	Sum	
13	Type 1B	Sum	
14	Type 2A	Sum	
15	Type 3	Sum	
16	Type 4	Sum	
17	Type 5	Sum	
18	Type 6	Sum	
19	Type 7	Sum	
20	Type 8	Sum	
21	Type 9	Sum	
22	Type 10	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
	<b>Insitu Capping Beams, crane beam and service tunnel</b>		
	<b>Earthworks</b>		
23	Excavate for restricted foundations and footings	Sum	
	<b>FORMWORK</b>		
	<b>Rough finish</b>		
	<b>Plane vertical to</b>		
24	Landside side and ends of capping beam including expansion joints	Sum	
25	Outside/buried face of service tunnel walls	Sum	
26	Bollard support beam	Sum	
27	Rear crane rail beam	Sum	
	<b>Curved vertical to</b>		
28	Landside side of cellular caisson capping beam	Sum	
	<b>Smooth finish</b>		
	<b>Plane vertical to</b>		
29	Inner face of tunnel walls	Sum	
30	Tunnel sump	Sum	
31	New Permanent stop block (2.5mx1.0mx1.8m high)	Sum	
	<b>Curved vertical to</b>		
32	Seaside face of cellular caisson capping beam	Sum	
	<b>Horizontal and inclined plane to</b>		
33	Soffit of tunnel slabs including top chamfers	Sum	
	<b>Narrow Widths:</b>		
34	Smooth crane rail recess (210mm deep by 520mm wide)	Sum	
35	100mm wide drainage channel in service tunnels	Sum	
36	150mm wide drainage channel in service tunnels	Sum	
37	200mm wide drainage channel in service tunnels	Sum	
	<b>Box Out Holes / Form Voids</b>		
38	Fire hydrant and electrical chambers	Sum	
39	Bollard recess	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
40	Shear key groove - 0.75m x 0.25m	Sum	
41	Shear key tongue - 0.75m x 0.25m	Sum	
42	Ladder recesses in insitu cope	Sum	
43	200 x 250mm void in tunnel centre wall at turn over drum positions	Sum	
<b>REINFORCED CONCRETE</b>			
Blinding Layer / Levelling concrete to			
44	Cope and capping beam levelling slab (Theoretical 130mm thickness) - 45 MPa	Sum	
45	Tunnels and rear crane rail beam - 15 MPa	Sum	
<b>Concrete Grade 40MPa to:</b>			
46	Main quay capping beam & service tunnels	Sum	
47	Cellular caisson capping beam	Sum	
48	Stop block	Sum	
49	Rear crane rail beam	Sum	
50	Bollard support beam	Sum	
51	Unformed surface finishes		
52	Wood float finish to		
53	Tunnel floor slab	Sum	
54	Top of capping beam and service tunnel	Sum	
55	Top of Rear Crane Rail Beam	Sum	
56	Floor of tunnel Sump	Sum	
57	New Permanent stop block Top (2.5mx1.0mx1.8m high)	Sum	
<b>REINFORCEMENT</b>			
58	Supply, bend and place high tensile bars		
59	Diameter 25mm basic price	Sum	
<b>Extra over or under G2.4.1.1 for bars of diameter</b>			
60	12mm	Sum	
61	16mm	Sum	
62	20mm	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
63	32mm <b>Joints</b> <b>Form Joints in capping beam and service tunnel</b>	Sum	
64	Expansion Joint Type 1a	Sum	
65	Expansion Joint Type 1b	Sum	
66	Expansion Joint Type 1c	Sum	
67	Expansion Joint Type 1d	Sum	
68	Shear Key Joint Type 2a	Sum	
69	Shear Key Joint Type 2b	Sum	
70	Shear Key Joint Type 2c	Sum	
71	Construction Joint Type 3a	Sum	
72	Construction Joint Type 3b	Sum	
73	Construction Joint Type 3c	Sum	
74	Tied Construction Joint Type 4	Sum	
75	Expansion joint in rear crane rail beam	Sum	
76	Connection of new capping at Berth 202 to existing capping beam to form continuous tunnel  <b>Inserts and Miscellaneous</b> <b>Construct access manholes in new capping beam and service tunnels complete</b>	Sum	
77	Electrical chamber covers	Sum	
78	Fire Hydrant chambers covers	Sum	
79	Wet services tunnel pipe slot	Sum	
80	Wet services tunnel access manhole	Sum	
81	Electrical service tunnel cable slot	Sum	
	<b>Supply and cast-in ducts</b>		
82	100mm diameter sleeve in capping beam for sump pump discharge	Sum	
83	200mm dia hydrant and electrical chamber ducts	Sum	
84	50mm Crane Rail Earthing ducts	Sum	
85	160mm Electrical long radius bend ducts in capping beam	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
86	110mm Comms long radius bend ducts in capping beam	Sum	
87	100mm electrical duct at tunnel sumps	Sum	
88	75mm drainage duct at tunnel sumps	Sum	
89	Extra over for casting pipes and ducts of max diameter 250mm into tunnel walls for connection of services - Pipe and duct material measured under Bill J	Sum	
90	Temporarily brick up service tunnels at phase interface and remove once adjacent phase complete.	Sum	
<b>Quay furniture</b>			
91	Supply new 300 ton double bit bollards(including all anchor bolts etc.) including 2 spare	Sum	
92	Install new 300 ton double bit bollards (including all anchor bolts etc.)	Sum	
93	Supply new super cone fenders including 2 spare	Sum	
94	Install new super cone fenders	Sum	
95	Supply and Install quay furniture		
96	Storm pin anchors	Sum	
97	Sea-side tie-down anchors	Sum	
98	Land-side tie-down anchors	Sum	
99	Land-side earth box & spike sleeve	Sum	
100	Turn-over drum	Sum	
101	New quay access ladders	Sum	
102	Turnover funnel	Sum	
103	Paint surface of stop block	Sum	
104	Supply and install pipe cable protector units in 6.0m lengths complete	Sum	
105	Install existing 80 ton bollards on Berth 202	Sum	
105	<b>105A</b> Manufacture complete temporary stop blocks	Sum	
106	Supply, install and commission type S1 sump pump assembly	Sum	
107	Supply, install and commission type S3 sump pump assembly	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
<b>Crane Rails</b>			
108	Supply new type A150 crane rail - land and sea side	Sum	
109	Supply and install holding down bolts for sole plates including 2 No. off nuts,1 No. off washer and 1 No. off nylon washer	Sum	
110	Supply and install sole plates units in 2.990m lengths to land and sea side crane rails	Sum	
111	Supply and install rail pads	Sum	
112	Supply and install rail clips	Sum	
113	Supply and install rail studs including 1 No.off nut & 1 No. off washer	Sum	
114	Install new type A150 crane rails including welding into long lengths	Sum	
115	Install Re-used type A150 crane rails including welding into long lengths	Sum	
116	Grout sole plates	Sum	
<b>Modification of existing quayside infrastructure</b>			
<b>Modify existing bus bar and RMG tunnels, slots and crane rail recesses</b>			
117	Seal existing Busbar & RMG Tunnels as per the drawings	Sum	
118	Fill A100 Rail Recess with reinforced concrete	Sum	
119	Fill A150 Rail Recess with reinforced concrete	Sum	
120	Repair existing Slot Drains	Sum	
121	Install cable slots in existing Busbar and RMG Tunnels	Sum	
<b>Fill voids in existing quay</b>			
122	Tie Down Anchor slots (30.48m Gauge) with non-shrink grout	Sum	
123	Storm Pin Anchor slots (30.48m Gauge) with non-shrink grout	Sum	
124	Storm Bollard Slot with mass concrete	Sum	
125	Tie Down Anchor slots (20m Gauge) with non-shrink grout	Sum	
126	Storm Pin Anchor slots (20m Gauge) with non-shrink grout	Sum	
127	Existing Fire Hydrant chambers with mass concrete	Sum	
128	Existing Fuel Bunkers with mass concrete	Sum	
129	Telephone Access Pits with mass concrete	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
	General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.		
<b>Section H</b>	<b><u>PAVING AND BACK OF QUAY WORKS</u></b>		
	<b>Mass earthworks</b>		
	<b>Cut to fill including freehaul of up to 1,0 km - excavate material from behind existing quay wall and use for G7 fill</b>		
1	Material compacted in layer thickness of maximum 200mm compacted to 93% Mod AASHTO density (100% for sand)	Sum	
	<b>Roadbed preparation and compaction of material</b>		
2	Compaction to 93% of Mod AASHTO density (100% for sand)	Sum	
3	Extra-over item 33.01 for excavating material from existing pavement	Sum	
4	Filling of voids under existing cantilever	Sum	
	<b>Pavement layers of gravel</b>		
	<b>Pavement layers constructed from gravel obtained from commercial source</b>		
5	G7 selected layer compacted in layer thickness of maximum 200mm compacted to 93% Mod AASHTO density (100% for sand)	Sum	
6	G6 gravel subbase (chemically stabilised) compacted in layer thickness of 150mm compacted to 97% Mod AASHTO density	Sum	
	<b>Stabilisation: Chemical stabilisation extra over unstabilised compacted layers</b>		
7	C3 subbase	Sum	
8	C1 subbase	Sum	
	<b>Chemical stabilising agent</b>		
9	Cement (CEM II, 32.5)	Sum	
10	Curing of stabilised layer in accordance with specification	Sum	
	<b>Crushed stone base</b>		
	<b>Crushed stone base from commercial source</b>		
11	G1 crushed stone base base (chemically stabilised) compacted in layer thickness of 150mm compacted to 88% apparent density	Sum	
12	G2 crushed stone base base (chemically stabilised) compacted in layer thickness of 150mm compacted to 98% Mod AASHTO density	Sum	
	<b>Breaking up, demolish and dispose of existing flexible pavement strip behind existing quay wall</b>		
	<b>Excavating and removing existing bitumous material to be disposed of with average depth of excavation:</b>		
13	Exceeding 50mm but not exceeding 100mm	Sum	
14	Exceeding 100mm but not exceeding 150mm	Sum	
15	Exceeding 150mm but not exceeding 200mm	Sum	
16	Exceeding 200mm but not exceeding 250mm	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
	<b>Excavating and spoiling material from an existing pavement</b>		
17	Cemented material	Sum	
	<b>Sawing or cutting asphalt or cemented pavement layers</b>		
18	Sawing asphalt	Sum	
19	Sawing cemented layers	Sum	
	<b>Asphalt base and surfacing</b>		
20	Construct continuously graded 26,5mm aggregate asphalt base layer (200mm thick layer, 35/50 penetration grade bitumen binder)	Sum	
21	Construct open graded asphalt surfacing filled with resin modified cementitious grout, 13.2mm max aggregate, penetration grade 35/50, 50mm thick	Sum	
22	Construct medium continuously graded, 13.2mm aggregate asphalt bond breaker (25mm thick layer, 35/50 penetration grade bitumen binder)	Sum	
23	Tack coat of 30% stable grade anionic bitumen emulsion	Sum	
24	Prime coat MC-30 cut back	Sum	
	<b>Fencing</b>		
25	New personnel gate at new return quay	Sum	
	Erect permanent terminal fence (pallisade) with:		
26	Existing recovered material	Sum	
27	New material	Sum	
	<b>Road markings</b>		
	Road marking paint		
28	100mm wide white lines (dashed and solid)	Sum	
29	100mm wide yellow lines (dashed and solid)	Sum	
	<b>Lettering, symbols, stack markings and chevrons</b>		
30	White	Sum	
31	Yellow	Sum	
32	Black	Sum	
33	Setting out and pre-marking the lines (excluding lettering, symbols and stack markings)	Sum	
34	Removing existing, temporary or permanent road markings by sandblasting	Sum	
	<b>Concrete pavements</b>		
35	Concrete pavement, Grade 35 Mpa excluding texturing and curing		
36	375mm thick	Sum	
37	Concrete overlay - average thickness 330mm	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
	<b>Reinforcement</b>		
38	Jockey slabs	Sum	
39	Re-entrant corners (Y12s - 1000mm long)	Sum	
40	Mesh reinforcement REF 617	Sum	
	<b>Texturing and curing the concrete pavement</b>		
41	Burlap-dragged and grooved texture	Sum	
42	Curing	Sum	
	<b>Joints</b>		
43	Expansion Joint	Sum	
44	Isolation Joint - Non Thickened Edge	Sum	
45	Isolation Joint - Thickened Edge	Sum	
46	Weakend Plane Joint	Sum	
47	Keyed Construction Joint	Sum	
48	Butt joint between concrete and concrete	Sum	
49	Butt Joint between concrete and asphalt	Sum	
50	Dowelled Transverse/Longitudinal Joint	Sum	
	<b>Dowel bars, 40mm diameter, 500mm long</b>		
51	Installed in new concrete	Sum	
52	Installed in existing concrete in rehabilitation work	Sum	
	<b>Tie bars - Y20, 1000mm long</b>		
53	End caps for 40mm diameter dowels	Sum	
	<b>Edge thickening to slab at:</b>		
54	Jockey slab	Sum	
55	Typical slab (around manholes, crane beam, service tunnels and busbars)	Sum	
56	Repair existing joints	Sum	
57	Repair existing cracks	Sum	
58	Grit or high pressure blast existing capping beam to receive overlay	Sum	
59	Scabble existing capping to receive asphalt	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
<b>Miscellaneous works to existing infrastructure</b>			
Extensions of existing service tunnel access manholes through new overlay as per details on drawing 1370-CO-160-C-DWG-0005-01 to 06			
60	Access Extension Type 1	Sum	
61	Access Extension Type 2	Sum	
62	Access Extension Type 3	Sum	
63	Access Extension Type 4	Sum	
64	Access Extension Type 5	Sum	
65	Access Extension Type 6	Sum	
Extensions of existing bollard plinth through new overlay as per detail on drawing 2122830-1-024-C-GA-0003-03			
66		Sum	
67	Clean paved area	Sum	
68	Sandblast existing stack markings and reinstate	Sum	
Amount carried forward to summary			

Item No	Description	Activity Schedule Unit	Amount
General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost.			
<b>Section I</b>			
<b>SERVICES</b>			
<b>Earthworks (Pipe Trenches) - Storm water pipes</b>			
1	Excavate in all materials for trenches, backfill, compact & dispose of surplus material, for all storm water pipes up to 900mm diameter for depth up to 3.5m	Sum	
2	Excavate in all materials for slot drains, backfill, compact and dispose of surplus/unsuitable material, for depths up to 1m	Sum	
3	Excavation of cross trenches by hand to locate existing services	Sum	
<b>Cable ducts (Electrical and comms)</b>			
<b>Excavate in all materials for trenches, backfill, compact and dispose of surplus materials</b>			
4	Trenches for single ducts	Sum	
5	Trenches for width of two ducts (1 layer)	Sum	
6	Trenches for width of two ducts (2 layers)	Sum	
7	Trenches for width of four ducts (1 layer)	Sum	
8	Trenches for width of four ducts (2 layers)	Sum	
9	Trenches for width of eight ducts (2 layers)	Sum	
<b>Extra-over item J.2.1 for trenching in and making good of paved areas</b>			
10	Flexible pavement	Sum	
11	Concrete pavement	Sum	
<b>Supply, lay, bed and prove ducts including draw wires</b>			
12	Single 160mm diameter duct	Sum	
13	Duct group comprising 2 layers of 2 ducts - 160mm diameter	Sum	
14	Duct group comprising 2 layers of 4 ducts - 160mm diameter	Sum	
15	Duct group comprising 2 layers of 8 ducts - 160mm diameter	Sum	
16	Single 110mm diameter duct	Sum	
17	Duct group comprising 1 layer of 2 ducts - 110mm diameter	Sum	
18	Duct group comprising 1 layer of 4 ducts - 110mm diameter	Sum	
19	Import bedding material - non plastic bedding sand	Sum	
<b>Supply and installation of concrete slabs for protection of new services</b>			
20	1.5m x 2m (Type 1)	Sum	
21	1.5m x 1m (Type 2)	Sum	
22	1.5m x 1m (Type 3)	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
<b>Connection to existing tunnels</b>			
23	Connection of new single duct group to existing tunnels	Sum	
24	Connection of new 2 x 2 duct group to existing tunnels	Sum	
25	Connection of new 2 x 4 duct group to existing tunnels	Sum	
26	Connection of new 2 x 8 duct group to existing tunnels	Sum	
27	Connection of new 1 x 2 duct group to existing tunnels	Sum	
28	Connection of new 1 x 4 duct group to existing tunnels	Sum	
<b>Construction of reinforced concrete chambers for:</b>			
29	Mini-sub chamber	Sum	
30	Type E7 electrical chamber	Sum	
31	Type E5 electrical chamber	Sum	
32	Type T3 comms chamber	Sum	
<b>Construct new mast foundations for:</b>			
34	High mast lights	Sum	
35	CCTV masts	Sum	
36	Navigation Light Masts	Sum	
37	Radio Masts	Sum	
<b>Stormwater drainage</b>			
38	Supply and lay concrete pipe culvert (100D 900mm ND includes filter fabric around joints)	Sum	
39	Extra over item J3.1 for placement within caisson	Sum	
40	Provide flexible connection to caisson wall	Sum	
41	Construction of reinforced concrete storm water manhole		
42	Type 1A - 5.4m deep (includes flexible connections, and filter fabric )	Sum	
43	Type 1B - 5.345m deep (includes flexible connections and filter fabric)	Sum	
44	Type 2 - 1.06m deep	Sum	
45	STW 41 Junction box	Sum	
46	Seal existing slot drains	Sum	
47	Construction of new slot drain in accordance with standard details		
48	Precast slotted top element	Sum	
49	Cast in situ bottom element		
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
50	Base depth between 350mm and 450mm	Sum	
51	Base depth between 450mm and 550mm	Sum	
52	Base depth between 550mm and 650mm	Sum	
53	Reinforcing steel to chambers and slot drains	Sum	
<b>Sewers</b>			
54	Excavate in all materials for trenches, backfill, compact and dispose of surplus materials Extra-over item J.4.1 for trenching in and making good of paved areas	Sum	
55	Flexible pavement	Sum	
56	Concrete pavement	Sum	
<b>Supply, lay, joint, bed and test pipeline</b>			
57	125mm HDPe sewer line in trench	Sum	
58	125mm HDPe sewer line in service tunnel	Sum	
59	HDPe Fittings		
60	125mm electrofusion coupling	Sum	
61	125mm 90 degree electrofusion coupling	Sum	
62	125mm HDPe puddle pipe. 700mm long. Both ends plain.	Sum	
63	125mm 45 degree electrofusion coupling	Sum	
64	125mm HDPe pipe with two puddle flanges. 3800mm long. Both ends plain.	Sum	
65	125mm HDPe spool piece 350mm long. One end flanged.	Sum	
66	125mm HDPe spool piece. 600mm long. One end flanged.	Sum	
67	125mm Adjustable elbow electrofusion coupling	Sum	
68	125mm 22.5 degree electrofusion coupling	Sum	
69	125mm HDPe pipe with two puddle flanges. 5650mm long. Both ends plain	Sum	
70	125mm HDPe pipe with two puddle flanges. 2575mm long. Both ends plain	Sum	
71	Cast Iron Fittings		
72	100mm Cast iron flanged bellmouth.	Sum	
73	100mm Cast iron 90 degree elbow. Both ends flanged.	Sum	
74	100mm Cast iron straight though gate valve	Sum	
75	Supply and installation of concrete slabs for protection of new services		
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
76	1.5m x 1m (Type 2)	Sum	
77	Connection to existing tunnels		
78	Connection of single duct to existing tunnels	Sum	
79	Connection of new 1 x 2 duct group to existing tunnels	Sum	
80	Construction of reinforced concrete manholes / pumpstations		
81	Pump Station Type 1	Sum	
82	Pump Station Type 2	Sum	
83	Sewer rising main access hatches	Sum	
84	Sewer Stilling Chamber	Sum	
85	Connecting to existing sewer at existing pump station	Sum	
86	Pipe support brackets	Sum	
<b>Water</b>			
87	Excavate in all materials for trenches, backfill, compact and dispose of surplus materials	Sum	
	Extra-over item J.5.1 for trenching in and making good of paved areas		
88	Flexible pavement	Sum	
89	Concrete pavement	Sum	
<b>Supply and lay pipes within service tunnel and ducts</b>			
90	250mm diameter HDPe class 16	Sum	
91	90mm diameter HDPe class 16	Sum	
92	Supply and lay pipes in trenches		
93	160mm diameter HDPe class 16	Sum	
94	250mm diameter HDPe class 16	Sum	
95	90mm diameter HDPe class 16	Sum	
<b>Installation of concrete slabs for protection of new services</b>			
96	1.5m x 1m (Type 1)	Sum	
<b>HDPe Fittings</b>			
97	250x90x250mm HDPe reducing tee Electrofusion coupling.	Sum	
98	90mm HDPe Electrofusion coupling	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
99	90mm HDPe spool piece 245mm long. One end flanged. One end plain.	Sum	
100	90mm HDPe spool piece 430mm long. One end flanged. One end plain.	Sum	
101	90mm HDPe 90 degree elbow Electrofusion coupling.	Sum	
102	90mm HDPe puddle pipe. 2800mm long. Both ends plain.	Sum	
103	90mm HDPe spool piece 1000mm long. One end flanged. One end plain.	Sum	
104	90mm Temporary HDPe end cap	Sum	
105	90mm HDPe spool piece 150mmlong. One end flanged. One end plain.	Sum	
106	250x160x250mm HDPe reducing tee.	Sum	
107	160mm HDPe Electrofusion coupling.	Sum	
108	160mm HDPe spool piece 160mm long. One end flanged. One end plain.	Sum	
109	160mm HDPe spool piece 200mm long. One end flanged. One end plain.	Sum	
110	160mm HDPe 90 degree elbow Electrofusion coupling.	Sum	
111	160mm HDPe puddle pipe. 2700 Long. Both ends plain.	Sum	
112	160mm HDPe spool piece 1000mm long. One end flanged. One end plain.	Sum	
113	160mm Temporary HDPe end cap	Sum	
114	160mm HDPe pipe with two puddle flanges. 5650mm long. Both ends plain	Sum	
115	160mm HDPe pipe with two puddle flanges. 2575mm long. Both ends plain	Sum	
116	250mm HDPe spool piece. One end flanged.	Sum	
117	250mm HDPe Electrofusion coupling.	Sum	
118	250mm HDPe 45 degree elbow Electrofusion coupling.	Sum	
119	250mm HDPe 90 degree elbow Electrofusion coupling.	Sum	
120	250mm HDPe puddle pipe. Both ends plain.	Sum	
121	250mm to 225mm HDPe reducer. Both ends plain,	Sum	
122	225mm HDPe Electrofusion coupling	Sum	
123	225mm HDPe spool piece. One end flanged.	Sum	
<b>Other Fittings</b>			
124	80mm Cast iron straight through gate valve.	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
125	80mm Cast iron spool piece 1405mm long. Both ends flanged.	Sum	
126	80mm Cast iron Inline strainer. Both ends flanged.	Sum	
127	80mm Cast iron spool piece 500mm long. Both ends flanged.	Sum	
128	80mm Water meter.	Sum	
129	80mm Cast iron spool piece 1430mm long. Both ends flanged.	Sum	
130	80mm Galvanised steel hydrant pipe	Sum	
131	150mm Cast iron straight through gate valve.	Sum	
132	150mm Cast iron spool piece 1280mm long. Both ends flanged.	Sum	
133	150mm Cast iron Inline strainer. Both ends flanged.	Sum	
134	150mm Cast iron spool piece 500mm long. Both ends flanged.	Sum	
135	150mm Water meter.	Sum	
136	150mm Cast iron spool piece 1300mm long. Both ends flanged.	Sum	
137	400mm Ranger coupling.	Sum	
138	400mm Ductile iron spool piece. One end flanged. One end plain.	Sum	
139	400mm TO 250mm ductile iron reducer. Both ends flanged.	Sum	
140	250mm Ductile iron spool piece. Both ends flanged.	Sum	
141	250mm Cast iron straight through gate valve.	Sum	
142	250mm Cast Iron segmented 112 degree lobster back bend. Both ends flanged.	Sum	
143	225mm Steel spool piece. One end flanged.	Sum	
144	225mm Ranger coupling.	Sum	
145	Pipe support brackets	Sum	
Install Valve Chambers and Water Meter Assemblies			
146	Install buried valve chamber for 250mm Cast Iron Gate Valve	Sum	
147	Install water metering connection assembly at 203 Mess & ablutions Facility	Sum	
148	Install water metering connection assembly at 205 Mess & ablutions Facility	Sum	
<b>Navigation lights</b>			
149	Relocate floating navigation lights	Sum	
150	Relocate landside navigation light	Sum	
Amount carried forward			

Item No	Description	Activity Schedule Unit	Amount
Amount brought forward			
	<b>Miscellaneous</b>		
151	Underground services detection	Sum	
152	Shoring of excavations	Sum	
153	Dewatering of excavations	Sum	
154	Clean stormwater pipes in slot drains	Sum	
155	Contaminated material disposal	Sum	
156	<del>Aerial photography</del>	Sum	
157	<del>Video recording and timelapse video</del>	Sum	
158	Supply and install weather station	Sum	
159	<del>Demolition of Berth 203</del>	Sum	
Amount carried forward to summary			

Item No	Description	Unit	Quantity	Rate	Amount
General Note: The Contractor must refer to Annexure "L" (Part of Works Information) when Pricing the Activity Schedule as this will form part of the basis of Activity Cost. <b>PROVISIONAL ITEMS</b>					
Section J					
1	Ground penetration radar for possible underground inspections	Sum	1	2,100,000	2,100,000.00
2	Corrosion Protection Inspections and Commissioning	Sum	1	2,100,000	2,100,000.00
3	Employer's wave and current measuring instrumentation	Sum	1	5,250,000	5,250,000.00
4	Employer's laboratory testing	Sum	1	3,150,000	3,150,000.00
5	Diving Inspection Services	Sum	1	51,693,000	51,693,000.00
6	Hydrographic Survey	Sum	1	1,632,000	1,632,000.00
7	Site Establishment: Security Services	Sum	1	9,421,000	9,421,000.00
8	Site Establishment: Cleaning Services	Sum	1	8,447,000	8,447,000.00
9	Site Office Communications: Data & Communications	Sum	1	12,957,000	12,957,000.00
10	Maintenance of TNPA site offices	Sum	1	4,653,000	4,653,000.00
11	Decontamination/Deep Cleaning and Fogging/Demisting of Offices	Sum	1	101,000	101,000.00
12	CCTV	Sum	1	1,707,000	1,707,000.00
13	ICT: TNPA Project Office - DCT	Sum	1	4,104,000	4,104,000.00
14	ICT: TNPA Project Office - Lot 10	Sum	1	3,320,000	3,320,000.00
15	Third Party Inspections	Sum	1	7,000,000	7,000,000.00
16	Provision of a ferry in case of heavy traffic	Sum	1	1,364,000	1,364,000.00
17	Load testing of modified STS cranes	Sum	1	424,000	424,000.00
18	Electrical SAT AND FAT testing	Sum	1	2,240,000	2,240,000.00
19	Employer's Mini weather station	Sum	1	740,000	740,000.00
Amount carried forward to summary					122,403,000.00

Section	Description	Amount
	<b>Summary</b>	
A	PRELIMINARY AND GENERAL	
B	SITE CLEARANCE AND DEMOLITIONS	
C	DREDGING, RECLAMATION AND SANDBANK EXTENSION	
D	PILING & GROUND IMPROVEMENT	
E	FOUNDATION STONE BED AND SCOUR PROTECTION	
F	CAISSON QUAY WALL	
G	CAPPING BEAM, SERVICE TUNNEL, REAR CRANE RAIL BEAM AND QUAY FURNITURE	
H	PAVING AND BACK OF QUAY WORKS	
I	SERVICES	
J	PROVISIONAL ITEMS	R 122,403,000.00
Amount carried forward to form of Offer and Acceptance		122,403,000.00