



**prasa**

PASSENGER RAIL AGENCY  
OF SOUTH AFRICA

## REQUEST FOR QUOTATION (RFQ)

**RFQ NUMBER: KZN/PRASA/2026/03/09/Q**

**REQUEST FOR QUOTATION (RFQ): THE APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR SUPPLY AND DELIVERY 63MM BALLAST STONES ON AS AND WHEN REQUIRED BASIS FOR A PERIOD OF (36) MONTHS FOR PRASA RAIL KWAZULU-NATAL REGION.**



## SECTION 1: SBD1

### PART A INVITATION TO BID

#### YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF PASSENGER RAIL AGENCY (PRASA)

BID NUMBER:	KZN/PRASA/2026/03/09/Q	CLOSING DATE:	01 APRIL 2026	CLOSING TIME:	12:00PM
DESCRIPTION	REQUEST FOR QUOTATION (RFQ): THE APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR SUPPLY AND DELIVERY 63MM BALLAST STONES ON AS AND WHEN REQUIRED BASIS FOR A PERIOD OF (36) MONTHS FOR PRASA RAIL KWAZULU-NATAL REGION.				

#### BID RESPONSE DOCUMENTS SHALL BE ADDRESSED AS FOLLOWS:

BID RESPONSE DOCUMENTS MUST BE HAND DELIVERED TO  
**65 MASABALALA YENGWA AVENUE**  
**PRASA REGIONAL OFFICE FOYER AREA**  
**HELPPDESK**  
**PRASA SCM**  
**KWAZULU NATAL**

#### BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO

CONTACT PERSON	<b>Qiniso Makaluza</b>
TELEPHONE NUMBER	<b>031 813 0376</b>
E-MAIL ADDRESS	<b>Qiniso.Makaluza@prasa.com</b>

#### SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE		OR	CENTRAL SUPPLIER	
	SYSTEM PIN:			DATABASE No:	MAAA.....

<p>2.1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/>Yes <input type="checkbox"/>No [IF YES ENCLOSE PROOF]</p>	<p>2.2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/>Yes <input type="checkbox"/>No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]</p>
--	--	---	--

**QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**

- IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?  YES  NO
- DOES THE ENTITY HAVE A BRANCH IN THE RSA?  YES  NO
- DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?  YES  NO
- DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?  YES  NO
- IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?  YES  NO

**IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.**

**PART B: TERMS AND CONDITIONS FOR BIDDING**

**1. BID SUBMISSION:**

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED– (NOT TO BE RE-TYPED) OR IN THE MANNER**
- 1.3. **PRESCRIBED IN THE BID DOCUMENT.**
- 1.4. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

**2. TAX COMPLIANCE REQUIREMENTS**

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER’S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE.”

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID NVALID.**



SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....

(Proof of authority must be submitted e.g. company resolution)

DATE: .....

**NB:**

- *Quotation(s) must be addressed to PRASA before the closing date and time shown above.*
- *PRASA General Conditions of Purchase shall apply.*
- *PRASA is not obliged to award this bid.*
- *PRASA is not obligated to award to one supplier.*
- *PRASA reserves the right to use its discretion to award multiple suppliers or form a panel where possible.*

## **SECTION 2**

### **NOTICE TO BIDDERS**

#### **1. RESPONSES TO RFQ**

Responses to this RFQ [Quotations] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

Proposals must reach the PRASA before the closing hour on the date shown on SBD1 above and must be enclosed in a sealed envelope.

#### **2 COMMUNICATION**

Respondent/s are warned that a response will be liable for disqualification should any attempt be made either directly or indirectly to canvass any SCM Officer(s) or PRASA employee in respect of this RFQ between the closing date and the date of the award of the business.

#### **3 BIDDERS COMPLAINTS PROCESS**

3.1 Bidders are advised utilize this email address ([Scm.Compliants@prasa.com](mailto:Scm.Compliants@prasa.com)) for lodging of complains to PRASA in relation to this bid process. The following minimum information about the bidder must be included in the complaint:

3.1.1 Bid/Tender Description

3.1.2 Bid/Tender Reference Number

3.1.3 Closing date of Bid/Tender

3.1.4 Supplier Name

3.1.5 Supplier Contact details

3.1.6 The detailed compliant

#### **4 LEGAL COMPLIANCE**

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

#### **5 CHANGES TO QUOTATIONS**

Changes by the Respondent to its submission will not be considered after the closing date and time.

#### **6 PRICING**

All prices must be quoted in South African Rand on a fixed price basis, including all applicable taxes.

## **7 BINDING OFFER**

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

## **8 DISCLAIMERS**

PRASA is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that PRASA reserves the right to:

- Modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- Reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- Reject Quotations submitted after the stated submission deadline or at the incorrect venue.

Should a contract be awarded on the strength of information furnished by the Respondent, which after conclusion of the contract, is proved to have been incorrect, PRASA reserves the right to cancel the contract.

PRASA reserves the right to award business to the highest scoring bidder/s unless objective criteria justify the award to another Respondent.

Should the preferred fail to sign or commence with the contract within a reasonable period after being requested to do so, PRASA reserves the right to award the business to the next highest ranked Respondent provided that he/she is still prepared to provide the required goods at the quoted price.

## **9 LEGAL REVIEW**

Proposed contractual terms and conditions submitted by a Respondent will be subjected to review and acceptance or rejection by PRASA's Legal Counsel, prior to consideration for an award of business.

## **10 NATIONAL TREASURY'S CENTRAL SUPPLIER DATABASE**

Respondents are required to self-register on National Treasury's Central Supplier Database (CSD) which has been established to centrally administer supplier information for all organs of state and facilitate the verification of certain key supplier information. PRASA is required to ensure that price quotations are invited and accepted from prospective bidders listed on the CSD. Business may not be awarded to a respondent who has failed to register on the CSD. Only foreign suppliers with no local registered entity need not register on the CSD. The CSD can be accessed at <https://secure.csd.gov.za/>.

## **11 PROTECTION OF PERSONAL DATA**

In responding to this bid, PRASA acknowledges that it may obtain and have access to personal data of the Respondents. PRASA agrees that it shall only process the information disclosed by Respondents in

their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law.

Furthermore, PRASA will not otherwise modify, amend or alter any personal data submitted by Respondents or disclose or permit the disclosure of any personal data to any Third Party without the prior written consent from the Respondents. Similarly, PRASA requires Respondents to process any personal information disclosed by PRASA in the bidding process in the same manner.

## 12 EVALUATION METHODOLOGY

PRASA will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

EVALUATION CRITERIA	WEIGHTING
<b>Stage 1</b>	
Disqualifying Returnable Documents	Disqualifying Returnable Documents
<b>Stage 3</b>	
Price	80
Specific Goals	20
<b>TOTAL</b>	<b>100</b>
<b>Stage 4 – Returnable Documents</b>	
Returnable Documents	Returnable Documents

## 13 ADMINISTRATIVE RESPONSIVENESS

The test for administrative responsiveness will include completeness of response and whether all returnable and/or required documents, certificates; verify completeness of warranties and other bid requirements and formalities have been complied with. Incomplete Bids will be disqualified.

## 14 VALIDITY PERIOD

14.1 PRASA requires a validity period of **60 Working Days** from the closing date.

14.2 Respondents are to note that they may be requested to extend the validity period of their response, on the same terms and conditions, if the internal processes are not finalized within the validity period. However, once the delegated authority has approved the process the validity of the successful respondent(s)' bid will be deemed to remain valid until finalization of the of award.

## 15 PUBLICATION OF INFORMATION ON THE NATIONAL TREASURY E-TENDER PORTAL

Respondents are to note that, bid awards, amendments and cancellations will be published on the e-tender portal (*where applicable*) and or media used to advertise the bid. For the award of business, PRASA is required to publish the prices and preferences claimed of the successful and

unsuccessful Respondents *inter alia* on the National Treasury e-Tender Publication Portal, ([www.etenders.gov.za](http://www.etenders.gov.za)), on CIDB website for construction related RFQ's. (*where applicable*).

## 16 RETURNABLE DOCUMENTS

**Returnable Documents** means all the documents, Sections and Annexures, as listed in the tables below. There are three types of returnable documents as indicated below, and Respondents are urged to ensure that these documents are returned with the quotation based on the consequences of non-submission as indicated below:

### 16.1. Mandatory Returnable Documents

Failure to provide Mandatory Returnable Documents at the Closing Date and time of this RFQ may result in a Respondent's disqualification. Respondents are therefore urged to ensure that all documents are returned with their Quotations.

## SECTION 3

### 1 EVALUATION CRITERIA:

#### 2.1 Stage 1 – Disqualifying Returnable documents

Bidders must comply with the following requirements and failure to comply will lead to immediate disqualification.

No.	Description of requirement
a.	Bidders to fill and sign a closing register; failing which the bidder must provide proof that the document was submitted on time.
b.	The supplier must submit in writing (on a signed company letterhead) with this tender, acknowledging all the following: <ul style="list-style-type: none"><li>• The technical specifications of the products listed in the BOQ will be met.</li><li>• Non-conformances will be closed within 10 days from the date of notification when issued by PRASA.</li><li>• Products supplied will be SANS approved as per Bill of Quantity.</li></ul>

#### 2.2 STAGE 2- PRICE AND SPECIFIC GOALS

The following formula, shall be used to allocate scores to the interested bidders:

The maximum points for this tender are allocated as follows:

DETAILS	POINTS
PRICE	80
SPECIFIC GOALS	20
<b>TOTAL POINTS FOR PRICE AND SPECIFIC GOALS</b>	<b>100</b>

#### FORMULA FOR PROCUREMENT OF GOODS AND SERVICES

##### POINTS AWARDED FOR PRICE

##### THE 80/20 PREFERENCE POINT SYSTEMS

A maximum of 80 points is allocated for price on the following basis:

#### 80/20

$$PS = 80 \left( 1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

## POINTS AWARDED FOR SPECIFIC GOALS

3.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

**Table 1: Specific goals for the tender and points claimed are indicated per the table below.**

**Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)**

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by The Service Provider)	Evidence required for specific goals
B-BBEE contributor status of at least level 2	10		BEE Certificate / Affidavit (in the case of JV, a consolidated scorecard will be accepted)
Black Women Owned	3		Certified copy of ID Documents of the Owners
EME or QSE 51% Black Owned	3		Audited Annual Financial/ B-BBEE Certificate / Affidavit
51 % Black Owned	3		CIPC Documents / B-BBEE Certificate/Affidavit
Black Youth Owned	1		Certified copy of the identity document of the owner/s
TOTAL	20		

### N.B

- A CIPC Registration Documents/CSD Registration Report will be used to verify the above evidence.
- Points will be awarded/allocated on a proportional/pro-rata basis.
- Formula: Number of Points allocated x Percentage (%) owned = Number of Points Claimed.

### Stage 3- Returnable Documents

No.	Description of requirement
a)	Completion of ALL RFQ documentation (including ALL declarations, SBD documents/forms and signatures were required)
b)	Joint Venture / Consortium agreement / Trust Deed/ Confirmation in writing of their intention to enter into a JV or consortium agreement should they be awarded business by PRASA through this RFQ process (if applicable)
c)	Supply of valid SARS Pin
d)	CSD supplier registration number
e)	Certified copy of company directors
f)	B-BBEE Certificate / Affidavit
g)	CIPC Registration Documents

**NB:** The most Responsive bidder/s with incomplete returnable documents will be requested to resubmit completed documents within the time frame stipulated by PRASA before recommendation for award, failure which will result in automatic disqualification.

## SECTION 4

### PRICING AND DELIVERY SCHEDULE

Respondents are required to complete the attached Pricing Schedule

- 1 Prices must be quoted in South African Rand, inclusive of all applicable taxes.
- 2 Price offer is firm and clearly indicate the basis thereof.
- 3 Pricing Bill of Quantity is completed in line with schedule if applicable.
- 4 Cost breakdown must be indicated.
- 5 Price escalation basis and formula must be indicated.
- 6 To facilitate like-for like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being declared non-responsive.
- 7 Please note that should you have offered a discounted price(s), PRASA will only consider such price discount(s) in the final evaluation stage on an unconditional basis.
- 8 Respondents are to note that if price offered by the highest scoring bidder is not market related, PRASA may not award the contract to the Respondent. PRASA may:
  - 9 negotiate a market-related price with the Respondent scoring the highest points;
  - 10 if that Respondent does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the second highest points;
  - 11 if the Respondent scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the third highest points;
- 12 If a market-related price is not agreed with the Respondent scoring the third highest points, PRASA must cancel the RFQ.
- 13 Bidders are not compelled to fill the total firm offer in this section for as and when contract , prices to be evaluated line by line.

I / We \_\_\_\_\_ (Insert Name of Bidding Entity) of \_\_\_\_\_

code \_\_\_\_\_

(Full address) conducting business under the style or title of: \_\_\_\_\_ represented by:

\_\_\_\_\_ in my capacity as: \_\_\_\_\_ being duly

authorised, hereby offer to undertake and complete the above-mentioned work/services at the prices quoted in the bills of quantities / schedule of quantities or, where these do not form part of the contract, at a lumpsum, of R \_\_\_\_\_ (amount in



numbers); \_\_\_\_\_

\_\_\_\_\_ (amount in words) Incl. VAT.

**DELIVERY PERIOD:** Suppliers are requested to offer their earliest delivery period possible. Delivery will be effected within ..... working days from date of order. (To be completed by Service provider).

## SECTION 5

### PRASA GENERAL CONDITIONS OF PURCHASE

#### **General**

PRASA and the Supplier enter into an order/contract on these conditions to supply the items (goods/services/works) as described in the order/contract.

#### **Conditions**

These conditions form the basis of the contract between PRASA and the Supplier. Notwithstanding anything to the contrary in any document issued or sent by the Supplier, these conditions apply except as expressly agreed in writing by PRASA.

No servant or agent of PRASA has authority to vary these conditions orally. These general conditions of purchase are subject to such further special conditions as may be prescribed in writing by PRASA in the order/contract.

#### **Price and payment**

The price or rates for the items stated in the order/contract may include an amount for price adjustment, which is calculated in accordance with the formula stated in the order/contract.

The Supplier may be paid in one currency other than South African Rand. Only one exchange rate is used to convert from this currency to South African Rand. Payment to the Supplier in this currency other than South African Rand, does not exceed the amounts stated in the order/contract. PRASA pays for the item within 30 days of receipt of the Suppliers correct tax invoice.

#### **Delivery and documents**

The Supplier's obligation is to deliver the items on or before the date stated in the order/contract. Late deliveries or late completion of the items may be subject to a penalty if this is imposed in the order/contract. No payment is made if the Supplier does not provide the item as stated in order/contract.

Where items are to be delivered the Supplier:

Clearly marks the outside of each consignment or package with the Supplier's name and full details of the destination in accordance with the order and includes a packing note stating the contents thereof; On

dispatch of each consignment, sends to PRASA at the address for delivery of the items, an advice note specifying the means of transport, weight, number of volume as appropriate and the point and date of dispatch; Sends to PRASA a detailed priced invoice as soon as is reasonably practical after dispatch of the items, and states on all communications in respect of the order the order number and code number (if any).

## **Containers / packing material**

Unless otherwise stated in the order/contract, no payment is made for containers or packing materials or return to the Supplier.

## **Title and risk**

Without prejudice to rights of rejection under these conditions, title to and risk in the items passes to PRASA when accepted by PRASA.

## **Rejection**

If the Supplier fails to comply with his obligations under the order/contract, PRASA may reject any part of the items by giving written notice to the Supplier specifying the reason for rejection and whether and within what period replacement of items or re-work are required.

In the case of items delivered, PRASA may return the rejected items to the Supplier at the Supplier's risk and expense. Any money paid to the Supplier in respect of the items not replaced within the time required, together with the costs of returning rejected items to the Supplier and obtaining replacement items from a third party, are paid by the Supplier to PRASA.

In the case of service, the Supplier corrects non-conformances as indicated by PRASA.

## **Warranty**

Without prejudice to any other rights of PRASA under these conditions, the Supplier warrants that the items are in accordance with PRASA's requirements and fit for the purpose for which they are intended and will remain free from defects for a period of one year (unless another period is stated in the Order) from acceptance of the items by PRASA.

## **Indemnity**

The Supplier indemnifies PRASA against all actions, suits, claims, demands, costs, charges and expenses arising in connection therewith arising from the negligence, infringement of intellectual or legal rights or breach of statutory duty of the Supplier, his subcontractors, agents or servants, or from the Supplier's defective design, materials or workmanship.

The Supplier indemnifies PRASA against claims, proceedings, compensation and costs payable arising out of infringement by the Supplier of the rights of others, except an infringement which arose out of the use by the Supplier of things provided by PRASA.

## **Assignment and sub-contracting**

The successful Respondent awarded the contract may only enter into a subcontracting arrangement with PRASA's prior approval. The contract will be concluded between the successful Respondent and PRASA, therefore, the successful Respondent and not the sub-contractor will be held liable for performance in terms of its contractual obligations.

## **Governing law**

The order/contract is governed by the law of the Republic of South Africa and the parties hereby submit to the non-exclusive jurisdiction of the South African courts.

## **Special Conditions: Funding Contingency**

1. Paragraph 8.4 of the PFMA SCM Instruction No. 3 of 2021/22 states that the Accounting Authority may not invite price quotations or bids if no or sufficient provision is made in the budget of the institution.
2. PRASA has, in terms of section 79 of the PFMA, obtained approval from National Treasury, for a departure from paragraph 8.4 of the PFMA SCM Instruction No. 3 of 2021/22.
3. PRASA is currently in the process of making provision and allocation of budget for the services required in this RFQ, which provision and/or budget allocation has not yet been completed at the time of the issuance of this RFQ.
4. PRASA will, however, ensure that provision and/or budget allocation is made prior to the award of business in this RFQ.
5. Accordingly, any award pursuant to this RFQ is strictly subject to PRASA, inter alia:
  - 5.1. securing the necessary funding allocation; and
  - 5.2. confirming that sufficient budget exists to meet the intended award.
6. PRASA undertakes to keep bidders reasonably informed of the progress and status of the funding allocation and budgeting process.
7. By submitting a bid, bidders expressly acknowledge and agree that PRASA reserves the right to cancel this RFQ at any stage prior to award, in the event that PRASA is unsuccessful in making sufficient provision and/or budget allocation for the required services.
8. PRASA shall not be liable for:
  - 8.1. any claim, loss, or damages of whatsoever nature arising from or in connection with a failure to source funding; or
  - 8.2. the non-award of tender due to a failure to source funding; and
  - 8.3. bidders waive any right to institute proceedings against PRASA in respect of the circumstances



contemplated above.

SIGNED at \_\_\_\_\_ on this \_\_\_\_ day of \_\_\_\_\_ 20\_\_

Signature of Witness

1 \_\_\_\_\_

Name \_\_\_\_\_

Signature of Witness

2 \_\_\_\_\_

Name \_\_\_\_\_

Signature of Bidder's Authorised Representative: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_"

**BIDDER'S DISCLOSURE**

**1. PURPOSE OF THE FORM**

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

**2. Bidder's declaration**

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</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>

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:  
.....  
.....

---

<sup>1</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.

2.3 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 will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature Date

.....  
Position Name of bidder

## SBD 6.1

### PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

#### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

#### 1.2 To be completed by the organ of state

a) The applicable preference point system for this tender is the 80/20 preference point system.

#### 1.3 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
<b>Total points for Price and Specific Goals</b>	<b>100</b>

1.4 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.5 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

#### 2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating

contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

### 3. FORMULA FOR PROCUREMENT OF GOODS AND SERVICES

#### 3.2. POINTS AWARDED FOR PRICE

##### 3.1.1 THE 80/20 PREFERENCE POINT SYSTEMS

A maximum of 80 is allocated for price on the following basis:

#### 80/20

$$Ps = 80 \left( 1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

**Table 1: Specific goals for the tender and points claimed are indicated per the table below. Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)**

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by The Service Provider)	Evidence required for specific goals
B-BBEE contributor status of at least level 2	10		BEE Certificate / Affidavit (in the case of JV, a consolidated scorecard will be accepted)
Black Women Owned	3		Certified copy of the identity document of the owner/s
EME or QSE 51% Black Owned	3		Audited Annual Financial/ B-BBEE Certificate / Affidavit

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by The Service Provider)	Evidence required for specific goals
51 % Black Owned	3		CIPC Documents / B-BBEE Certificate/Affidavit
Black Youth Owned	1		Certified copy of the identity document of the owner/s
TOTAL	20		

**N.B**

- A CIPC Registration Documents/CSD Registration Report will be used to verify the above evidence.
- Points will be awarded/allocated on a proportional/pro-rata basis.
- Formula: Number of Points allocated x Percentage (%) owned = Number of Points Claimed.

**DECLARATION WITH REGARD TO COMPANY/FIRM**

4.2. Name of company/firm.....

4.3. Company registration number: .....

4.4. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[TICK APPLICABLE BOX]

4.5. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I 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

paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

- (a) disqualify the person from the tendering 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) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted 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
- (e) forward the matter for criminal prosecution, if deemed necessary.

.....  
**SIGNATURE(S) OF TENDERER(S)**

**SURNAME AND NAME:** .....

**DATE:** .....

**ADDRESS:** .....

.....

.....

.....

## **SECTION 11**

### **1. SPECIFICATION/SCOPE OF WORK**

This specification covers the appointment of a panel of service providers for the supply and delivery of 63mm ballast stone as and when to the Prasa KZN region for a period of thirty six months (36).

### **2. SUPPORTING SPECIFICATIONS AND ORDER OF PRECEDENCE OF DOCUMENTS**

The following specifications and documents shall, inter alia, form part of this contract and the order of precedence shall be as follows:

- a) The Project Specification (this specification).
- b) Technical Specifications for Ballast
- c) S406 (Transnet Specifications)
- d) The Bill of Quantities

### **3. DURATION**

3.1 The contract will be for a period of thirty-six months (36) or attaining a value of R5 000, 000.00 (five million Rands only) Whichever comes first. The Engineer reserves the right to decide.

### **4. GENERAL**

4.1 Ballast stone shall comply with SABS 1083:2013 Edition 2.3. In addition, the ballast stone shall comply with the requirements specified hereinafter. Acceptance of the stone shall also depend on a full petrographic analysis to identify any micro fissuring, weakness and/or the presence of undesirable minerals that could lead to early degradation.

### **5. LOADING OF STONE**

5.1 The Contractor will be responsible for the loading of stone within their area of operations and the offloading of stone from the trucks in the area indicated by Prasa KZN (Durban Station behind Durmail offices).

5.2 The Contractor to ensure that all road trucks are loaded to the correct allowable carrying capacity. Any penalties for the overloading of vehicles will be for the contractor's own costs.

### **6. TECHNICAL SPECIFICATIONS FOR BALLAST**

#### **6.1 General**

The standard ballast type must be in accordance with European Standard (EN 932, EN 933, EN 1097, EN 1367, EN 1483, EN 13 450-1, EN ISO/IEC 17 025, EN 27 888), latest editions or equivalent standards.

The relevant UIC codes, equivalent EN or ASTM E standards, latest versions, must be applied for the inspection, acceptance, supply, delivery, and storage and quality assurance.

#### **6.2 Technical Requirements**

6.2.1 The ballast must be from hard, durable machine crushed stone (i.e. granite) extracted from a quarry from none-friable weathered rock, free from organic impurities and inorganic residue.

6.2.2 The ballast should, as far as possible, be cubical in shape.

6.2.3 The grain shape must be irregular sharp broken. Individual pieces should not be flaky and should generally have flat faces with not more than two rounded/sub rounded faces.

6.2.4 The ballast must also be permeable to both air and water drainage.

6.2.5 The Aggregate Abrasion Value must not exceed 30%.

6.2.6 The Aggregate Impact Value and Crushing Value must not exceed 14 % (Los Angeles coefficient).

### 6.3 Granulometry

6.3.1 The grading must be between 31.5 mm to 63 mm to enable proper and long-lasting mechanical tamping of the track.

6.3.2 The critical values or limits of the different granulometry of the ballast stones must be indicated in "...V.-%".

### 6.4 Size and Gradation

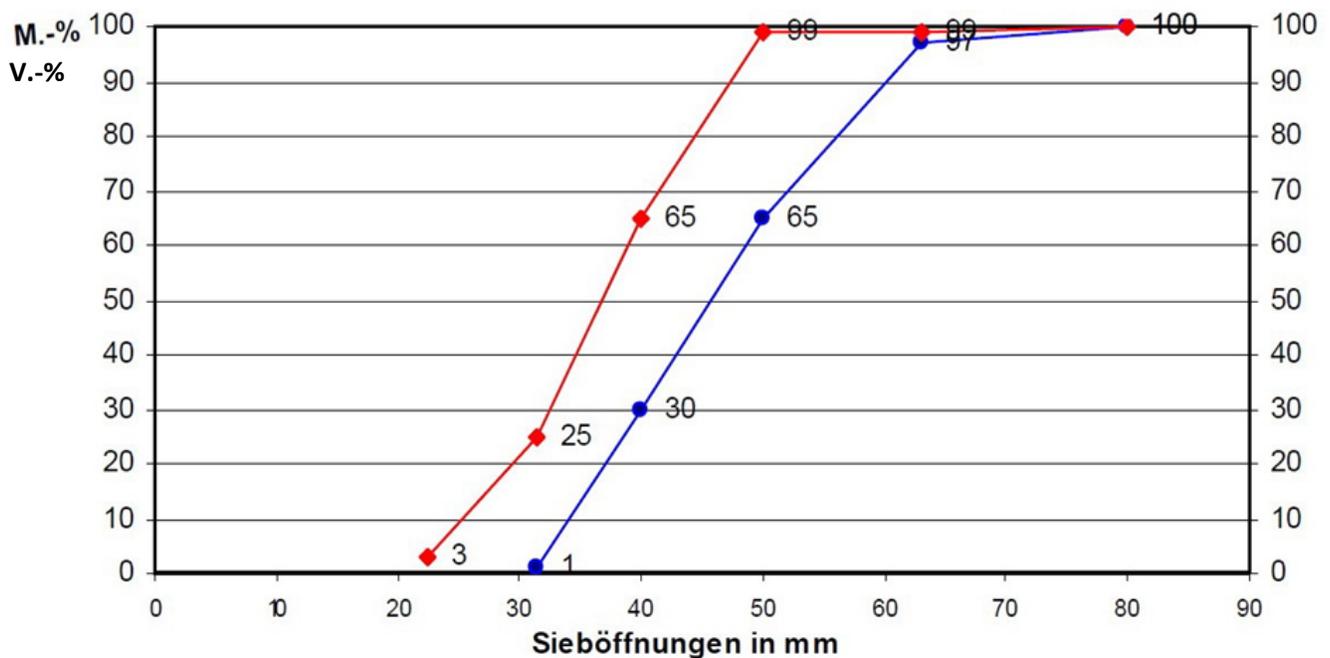
The ballast must satisfy the following size and gradation in accordance to EN 13450:

- **63mm sq. mesh sieve:** retaining limit 97% to 100%
- **50mm sq. mesh sieve:** retaining limit 65% to 100%

Limited amounts of under sized grains of less than 22.4mm are allowed:

- **Up to 3.0 V.-% in the quarry**
- **Up to 5.0 V.-% on the track**

**Figure for grain size distribution of ballast**



## 6.5 Test equipment according EN 933-2:

- **Square mesh sieves:** 22.4mm, 31.5mm, 40mm, 50mm, 63mm, 80mm
- **Size of sieves:** 500mm x 500mm or diameter of 400mm
- **Wire mesh sieves:** 0.5mm and 0.063mm
- Balance with scale of 1gram
- Balance with scale of 0.1gram: Measurement of water-absorbing capacity(according EN 1097-6)
- Test volumes: for all tests more than 100Kg, minimum 50 Kg of ballast.
- **Fines** - less than 0.5mm: maximum **1.0 V.-%**;
- **Fines** - less than 0.063mm: maximum **1.0 V.-%**; in tunnels: **0.5 V.-%**

## 6.6 Form of Grain:

Volume of grains with length/thickness equal to or greater than 1/3 must be between **5.0 - 30.0 V.-%**

**Grain shape:** irregular, sharp, mechanically broken rocks.

**Grain length greater than 100mm:** less than **6.0 V.-%** per **40** kg sample, according to EN 13 450, chapter 6.7, table 6.

## 6.7 Physical Requirements

The Resistance against Cracking has to be approved in 3 types of tests:

### 6.7.1 Crack and Abrasion Resistance (Los-Angeles-Test)

The Los-Angeles-Test must be realized according to EN 13 450 Chapter 7.2, table 7, Category LA<sub>RB20</sub>.

### 6.7.2 Resistance against Cracking

The test must be realized according to EN 13 450 Chapter 7.2, table 8, Category LA<sub>RB18</sub>

### 6.7.3 Particle Shape and Flakiness index

The shape of ballast shall be determined in terms of Flakiness index as specified in EN 933-3. The Flakiness index has to be declared in accordance with EN 13 450, chapter 6.6.1, table 4 with the relevant Category Fl<sub>15</sub>.

The maximum value of the Shape index of the ballast, determined according to EN 933-4 has to be in accordance with EN 13 450, chapter 6.6.2, table 5 with the relevant Category Sl<sub>10</sub> max Sl<sub>20</sub>.

## 7. Durability

### 7.1 Compactness

The compactness must be determined according to EN 1097-6 (basket test grains 31.5/40mm). The dumping compactness is half of the compacted ballast.

### 7.2 Weathering Resistance

In order to judge the weathering resistance, the water absorption of the ballast has to be determined according EN 1097-6 (minimum of 10 grains of different varieties with a minimum of 5 pieces for each variety)

If the water absorption is more than 0.5V.-% of one grain, a crystalline test has to be done (magnesium sulfate-resistance ( $MgSO_4$ ) test) for the grading of 31.5/50mm according EN 1367-2.

The spalls passing the square mesh sieve of 22,4mm must be less than 3.0V.-% after the crystalline test (magnesium sulfate-value ( $MgSO_4$ ))

### 7.3 Sun damage, volume stability

During testing of basalt stone ballast against sun damage, no star type staining with hair line cracks must occur. If this should occur, a quality test must be done according to EN 1367-3.

After the heating test, a shock test has to be done. The shock-cracking-value  $SZ_{RB}$  has to be taken before and after cooking of the ballast stones. The difference of the shock-cracking-value  $SZ_{RB}$  before and after cooking must be less than 5.0V.-%

### 7.4 Property and State (Condition) of Ballast

The ballast must be free from organic impurities and inorganic residue.

No components of clay or marl must be in the grains.

The Ballast must be free of weak rocks like:

- Brown, weathered and discomposed grains
- Grains with cracks and/or ferro-manganese-oxide-, limonite- or hematite fissures
- Schist pieces of ballast

Weak rock grains are only allowed as part of the ballast up to a **maximum of 1.0V.-%**

### 7.5 Qualification of Suppliers

Before the first supply of ballast to Prasa KZN or their contractors, the supplier must prove his qualification and competence to produce ballast, especially when opening new quarries or long periods between ballast productions.

A precondition for the first supply of ballast from a supplier is a scientific certification/expertize carried out by an independent expert or a quality assurance company nominated by Prasa KZN. Suppliers without a certificate will not be allowed to deliver ballast to Prasa KZN or their contractors.

### 7.6 Quality Assurance of the Ballast

Tests of the ballast will be executed according to EN 932-1 and/or requirements of Prasa KZN and the supplier's quality control plan.

The petrographic analyses have to be executed according to EN 932-3.

These tests must be done for the purpose of monitoring quality during supply. In cases where the test results are not as per the described specification and/or ENs, further supplies must be suspended until suitable corrective action is taken and supplies ensured as per specifications/EN.

A report of the required tests must be submitted to Prasa KZN Quality Assurance Inspector prior to delivery. The report of the test results must be traceable to each lot produced.

The above tests may also be carried out in the laboratory of PRASA KZN or TRANSNET.

### 7.7 Inspection and Despatch

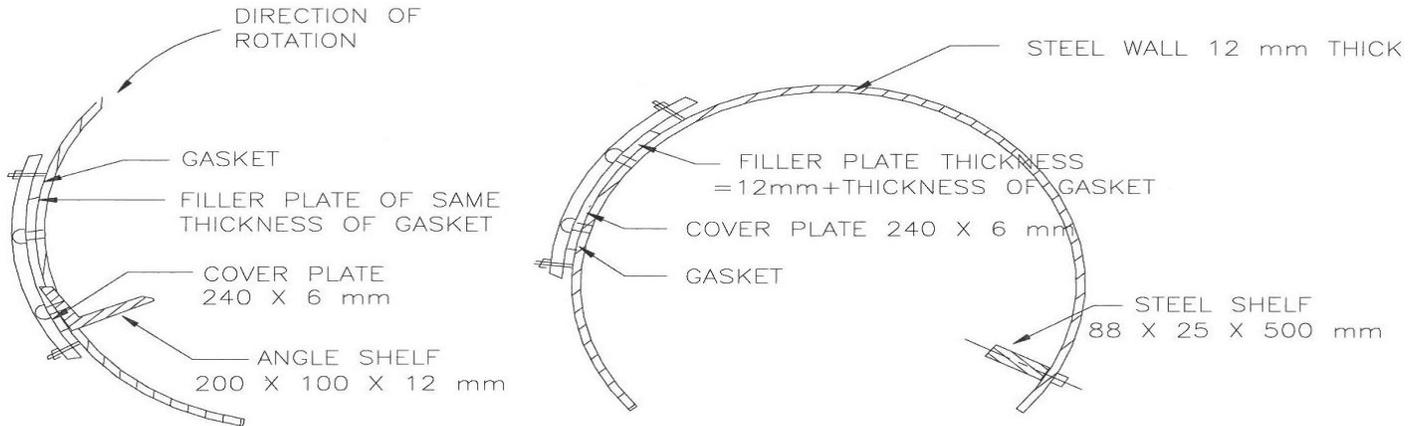
Representatives of Prasa KZN will be entitled to observe, at any time, the method of ballast production and all testing procedures of the supplier in detail in accordance to European or

equivalent Standards (EN 932, EN 933, EN 1097, EN 1367, EN 1483, EN 13 450-1, EN ISO/IEC 17 025, EN 27 888, latest editions)

Prasa KZN will also be entitled to carry out quality assurance tests at any time in their laboratory. The supplier must give the inspector of Prasa KZN at least 15 days written notice of the date of testing the production.

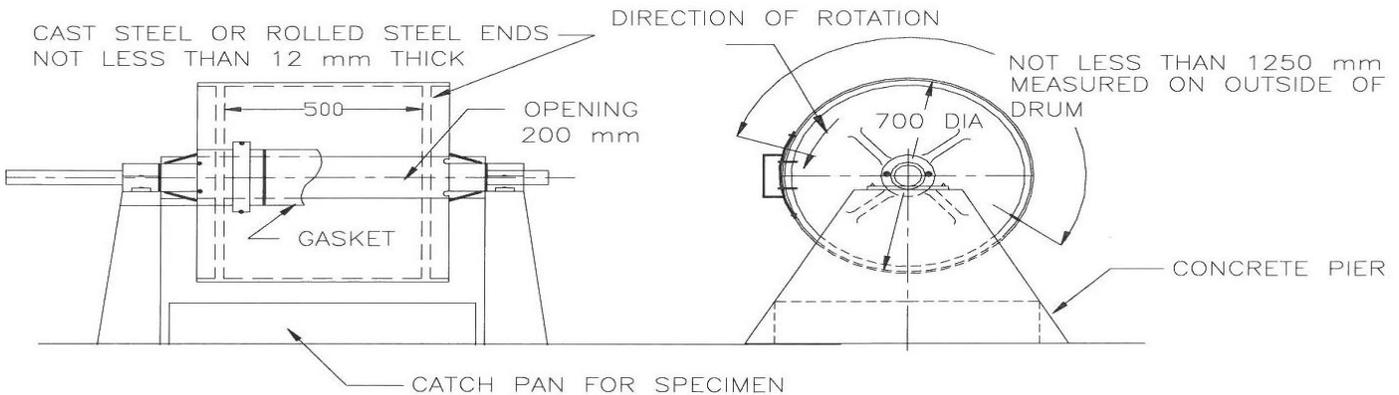
The inspector will stamp all results of testing accepted by him. No portion of ballast may be despatched for use by PRASA KZN unless the documents carry his acceptance mark.

The final inspection will be performed at the point of delivery.



ALTERNATIVE DESIGN OF ANGLE SHELF

PREFERRED DESIGN OF PLATE SHELF AND COVER

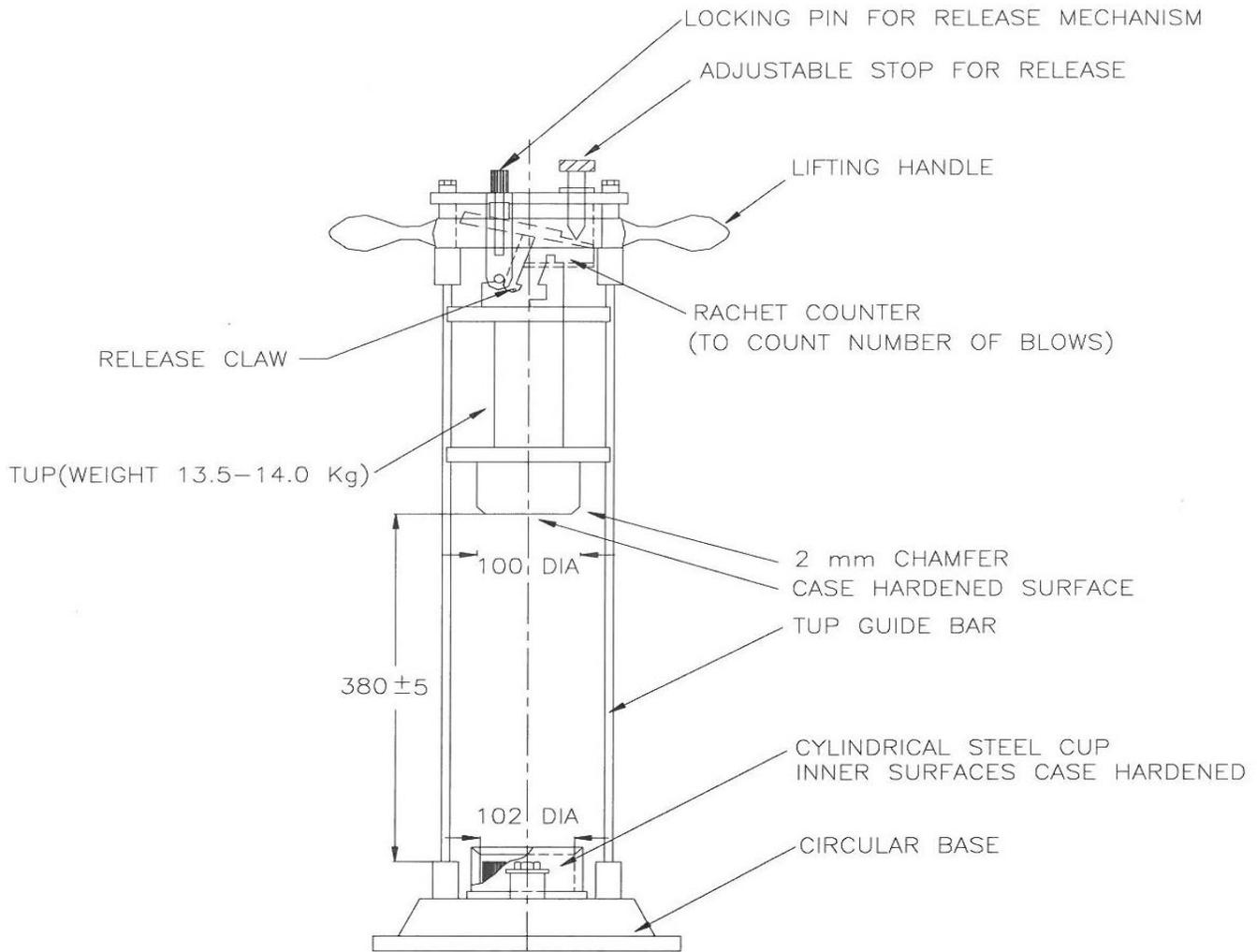


ALL DIMENSIONS ARE IN MILLIMETRES.

NOTE 1 -SHAFT BEARING WILL BE MOUNTED ON CONCRETE PIERS OR OTHER RIGID SUPPORTS.

NOTE 2 -SUGGESTED HORSE POWER FOR MOTOR IS NOT LESS THAN ONE.

## LOS ANGELES ABRASION TESTING MACHINE



ALL DIMENSIONS ARE IN MILLIMETRES.

## AGGREGATE IMPACT TEST MACHINE

## **9. PAYMENT**

- 8.1 When the stone has been delivered, invoices quoting the Contract number and the relevant Purchase Order Number must be sent to the Regional Engineer Perway, Prasa KZN.
- 8.2 Invoices must be accompanied by a Delivery Note together with a list detailing the quantity of stone loaded and signed by the consignee.
- 8.3 Payment will be as per Schedule of Quantities.
- 8.4 Prices to include transportation costs.

## **9. TO BE SUPPLIED BY PRASA**

- 9.1 Prasa KZN will supply a dedicated area for the offloading of the ballast.

## **10. TO BE SUPPLIED BY THE CONTRACTOR**

- 10.1 Contractor to supply proof of test carried out by an independent accredited laboratory ensuring that the material supplied conforms to the required specifications (S406 specifications). This must be included in the costs.
- 10.2 The Contractor shall supply all plant and equipment for the completion of the works i.e. the supply and loading and offloading of the ballast stone.

## **11. PRODUCTIVITY**

- 11.1 Prasa KZN will require the contractor to supply the agreed upon quantity within a 2-week period.
- 11.2 Prasa KZN will require certification of material indicating that it conforms to the specification. This certification must be provided before delivery of the ballast stone.
- 11.3 Prasa KZN reserves the right to increase or decrease quantities, this will be done in writing to the supplier.

## **12 PENALTIES**

- 12.1 Should the Contractor fail to deliver on the agreed date, a penalty of 1% per day will be charged on the total value of the Purchase order (PO) but shall not exceed 10 percent of the total value of the PO.
- 12.2 PRASA KZN reserves the right to test the product at any given time during the contract period for compliance. The Supplier will be held liable with costs for any deviations in the specifications which may have resulted in damages and downtime to Perway equipment. A meeting will be arranged by both parties (PRASA and the Contractor) to discuss the outcome of the investigation and costs incurred where necessary.

## **13 TERMINATION OF THE CONTRACT**

PRASA KZN reserves the right to cancel the contract at any time during the stipulated period due to the contractor not performing according to the requirements of the agreement.

## 14. PRICE ADJUSTMENTS

- 14.1 Prices to remain fixed for the first year of the contract.
- 14.2 Price adjustments for the second and third year will be taken into cognisance, which may result in an increase or decrease in the unit price of the products. A meeting may be convened by both parties (Prasa KZN and the Contractor) to determine the price adjustment. This adjustment will be verified/confirmed by both parties before acceptance by means of a written notification. Price adjustment should be in line with CPI.

## 15. MANDATORY RETURNABLE DOCUMENTATION.

The bidders to supply the following documentation with their tender (Contract Data).

- 15.1 The supplier must submit in writing (on a signed company letterhead) with this tender, acknowledging that:
- The technical specifications of the products listed in the BOQ will be met.
  - Non-conformances will be closed within 10 days from the date of notification when issued by PRASA.
  - Products supplied will be SANS approved as per Bill of Quantity.

## APPENDIX A

### TEST FOR SOUNDNESS OF STONE (SODIUM SULPHATE METHOD)

#### A.1 TEST SOLUTION

Prepare a saturated solution of anhydrous Na SO or crystalline Na SO. 10H O is distilled or demineralized water between 33°C and 35°C. Use sufficient salt to give excess crystals after thorough stirring. Cool to between 22°C and 24°C and keep this temperature for at least 16 h. Stir thoroughly before use.

#### A.2 PREPARATION OF TEST SPECIMEN

From a representative sample of stone take a random specimen of at least 500g passing a 19mm and retained on a 13,2mm sieve. Wash the specimen to remove all adhering material. Dry at 105°C in a well-ventilated oven and determine the mass after cooling. Continue drying until the decrease in mass after each of 2 successive drying periods of 4 h does not exceed 0,1% of the total mass. Let this mass be M1.

#### A.3 PROCEDURE

- A.3.1 Place the specimen in a porcelain dish and cover fully with test solution between 20°C for 7 h. Decant the solution taking care that no stone is lost.
- A.3.2 Dry the specimen for 15 h at 105°C. Allow the specimen to cool for 2 h. This completes one cycle of the soundness test.
- A.3.3 Repeat the cycle described in A3.1 and A3.2 as often as specified. After every fifth cycle, wash the specimen on a 1, 70 mm sieve with hot water until no crystalline sodium sulphate is visible and continue the test with material retained on a 1, 70 mm sieve.
- A.3.4 After completion of the final cycle, wash the specimen in hot water until the washings are free of sodium sulphate. Dry the specimen to constant mass and screen on a 1, 70 mm sieve. Let the mass retained on the sieve be M2.

#### A.4 LOSS

Calculate the percentage loss in mass from the formula.

$$\frac{(M1 - M2) \times 100\%}{M1}$$

## APPENDIX B

### DURABILITY TEST FOR BALLAST STONE

#### B.1 PREPARATION OF TEST SPECIMEN

From a representative sample of ballast stone take at random 100 stones passing a 53.0 mm and retained on a 26.5 mm sieve. Wash the stones to remove all adhering material. Dry the stones at 105 °C in a well-ventilated oven and determine the mass after cooling. Continue drying until the decrease in mass after each of 2 successive drying periods of 4 h does not exceed 0.1% of the total mass.

#### B.2 PROCEDURE

Place the 100 stones in a suitable container and cover with ethylene glycol between 18°C and 25°C for 20 days. Determine the number of stones that have broken or can be broken by hand.

#### B.3 TESTING

The supplier must send 1 sample to a laboratory for testing all cost will be paid by the supplier; the supplier must send the results to PRASA KZN

Prasa KZN will take random test and send to the laboratory for testing and cost will be paid by Prasa KZN.

## APPENDIX C

### MILL ABRASION TEST

#### C.1 TEST METHOD

- C.1.1 Prepare a test sample of the ballast under test, consisting of 1.5kg each of the following two particle sizes:  
<37.5 mm > 26.5 mm and <26.5 mm > 19 mm.

The particles shall be washed and oven – dried to a constant weight before it is weighed and tested.

( $W_o$  = the total weight of sample)

- C.1.2 Place the sample in the porcelain mill pot and add 3 liters of distilled water. Ensure that the cork washer is correctly in position before tightening the lid securely.
- C.1.3 The mill pot is placed in a horizontal position on the two rollers of the test apparatus with the lid on the side of the electric motor in order that the counter's sensor is activated with each revolution of the mill pot.
- C.1.4 The mill pot shall be rotated at 33 r.p.m. for a total of 10 000 revolutions.
- C.1.5 The sample shall then be wash – sieved through a 9.5 mm sieve placed on top of a 0.075 mm sieve and then oven dried to a constant weight.
- C.1.6 Record the dry mass of the material on the sieves:

$W_1$  = mass of material on 9.5 mm sieve.

$W_2$  = mass of material on 0.075 mm sieve.

#### C.2 EVALUATION METHOD

Calculate the following abrasion value:

$$MA = \frac{W_o - W_1 - W_2}{W_o} * 100 = \text{Mill Abrasion value}$$

**BILL OF QUANTITIES FOR THE SUPPLY OF BALLAST STONE TO THE PRASA KZN REGION**

Item No	DESCRIPTION	UNIT	QTY	YEAR 1		AMOUNT	
				R	c	R	c
1	63.0mm Ballast S406 (including transport from supplier to Durban Station) (Provisional)	ton	1				
				SUB TOTAL			
				VAT 15%			
				<b>TOTAL</b>			