

## CIVIL AND MECHANICAL ENGINEERING CONTRACTORS

<b>Project Title</b>	BFI01/23/E2SC2 Re-Advert: RIVERTON WTW REFURBISHMENT OF OLD PLANT'S FILTERS, CHLORINE AND CHEMICAL DOSING SYSTEMS
<b>Work Package Title</b>	Supply of Filter Media (1 to 12)
<b>Date of Work Package</b>	30 October 2024
<b>Project Manager</b>	T.N Sibanda
<b>Expected Commencement Delivery Date</b>	22 November 2024
<b>Expected Duration of Contract</b>	30 days
<b>Reference</b>	C320-WPK007

## Supply of Filter Media (1 to 12)

### Purpose

The purpose of this work package is to secure the services of a service provider for the supply and transportation of filter media.

Filter Media refers to the quarzitic grit and sand placed in layers with a particular grading used for the treatment of drinking water.

The work package will be done in a single phase. All the material will be purchased and delivered to Riverton Water treatment Works. The specifications and quantity of each type of filter media are highlighted in the attached documents.

This work package is only available to enterprises that meet the following criteria for being Local, being a Local Emerging Contractor or being a Local Services Provider or Local Supplier and is a Targeted Enterprise as set out below.

Eigenbau intends placing a single order for the supply of the filter media, with one vendor.

### Local

means the Sol Plaatje Municipality (SPM) area.

### Local Emerging Contractor

means a legal business entity with its registered office and/or physical address in the Local area.

### Local Supplier

means a legal business entity with its registered office and/or physical address in the Local area who has actively conducted business in the Local area for a period of more than 12 months and who supplies materials and plant directly to the end-user.



CIVIL AND MECHANICAL ENGINEERING CONTRACTORS



**TENDER  
OPPORTUNITY  
ALERT**

### Local Services Provider

means a legal business entity with its registered office and physical address in the Local area who has actively conducted business in the Local area for a period of more than 12 months and who supplies services directly to the end-user.

- Pre-Qualified Criteria for **Targeted Enterprises**

**i. an EME or QSE which is at least 51% owned by black people.**

**ii. an EME or QSE which is at least 51% owned by black people who are youth.**

**iii. an EME or QSE which is at least 51% owned by black people who are women.**

**iv. an EME or QSE which is at least 51% owned by black people with disabilities.**

**v. an EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships.**

### Background

**Eigenbau Pty Ltd** is a company with a long history of successful projects in the water and wastewater treatment space. As such, **Eigenbau** competitively tendered for the appointment for various mechanical and electrical works at the Riverton Old Works. Eigenbau were appointed as the sole Main Contractor in the refurbishment of old plant's filters, chlorine and chemical dosing systems at Riverton Water Treatment works.

As part of the Scope of works, we are required to supply and transport filter media for 12 rapid gravity sand filters. The quantity of the filter media is specified in the pricing schedule attached. This work has been identified as being suitable for subcontracting to a party who can manage tight timeframes for delivery of material to site. The ideal sub-contractor should also have a fleet of trucks to respond timeously to delivery schedules and timeframes. **Eigenbau** herewith issue this invitation to tender to suitable registered and experienced service providers for this as a works package to qualifying local entities.

**NOTE:** All responding parties are to remain aware that the main contract was secured under competitive bidding and accordingly the responding parties are encouraged to research what is acceptable rates for such work that allows all parties to reasonably benefit from the work. **Eigenbau** is committed to sharing workload, within the main contract parameters

### Site Location

Riverton Water Treatment Works is located 30km north of Kimberly along the Vaal River. The construction site is adjacent to the plants main peripheral fencing close to the main entrance gate. The site is controlled/managed/ secured by Sol Plaatje Municipality and therefore any service provider is required to co-operate with them or their selected service providers/contractors etc and abide by any rules of their site. Access is by road.

## Scope of work

Eigenbau requires the services of a competent and fully registered Contractor to supply and transport the filter media to the treatment works.

The total surface area to be covered is 34.2m<sup>2</sup> and the volume is 32.49m<sup>3</sup> per filter. Therefore, the total volume of filter media required for the 12 filters will be 390m<sup>3</sup>. The profile of the filters will be as highlighted in drawing C320 – Drawing of Filter Media where the height of each layer will be as follows:

### The media volumes are calculated and reflected as per below.

1. Sand = 700mm with a Bulk Density of 1500kg/m<sup>3</sup>  
 $0.7\text{m} \times 34.2\text{m}^2 = 23.94 \approx 24\text{m}^3$   
@1500kg/m<sup>3</sup>, the total mass required is:  
 $1500 \times 24 \times 12 = 432\,000\text{kgs}$  or 432tonnes  
If packaged into 40kg bags, 10800 bags in total will be required.

2. Grit = 100mm, B.D of 1400kg/m<sup>3</sup>  
 $0.1\text{m} \times 34.2\text{m}^2 = 3.42 \approx 3.5\text{m}^3$   
@1400kg/m<sup>3</sup>, the total mass required is:  
 $1400 \times 3.5 \times 12 = 58\,800\text{kgs}$  or 58.8tonnes  
If packaged into 40kg bags, 1470 bags in total will be required.

3. Pebbles = 150mm, B.D of 1410kg/m<sup>3</sup>  
 $0.15\text{m} \times 34.2\text{m}^2 = 5.13 \approx 5.2\text{m}^3$   
@1410kg/m<sup>3</sup>, the total mass required is:  
 $1410 \times 5.2 \times 12 = 87984\text{ kgs}$  or 87.984tonnes  
If packaged into 40kg bags, 2200 bags/filter in total will be required.

Each type of media is covered by a very detailed specification that needs to be adhered to, a copy of which is included herein. Bidders are strongly encouraged to read same and circulate this to bidders.

### The Scope of work entails:

- Purchasing the filter media in the QTY shown in the BoQ.
- Loading the filter media from the supplier's premises.
- Transporting the Filter Media to the Riverton Water treatment works by the due date.
- Off-loading the filter media and packing it away to a designated zone within 150m of the offloading point.

**NOTE:** The filter media should be packaged in 40kg or 25kg bags depending on what is available. Bulk supply will not be accepted for this work package. Note that no offloading equipment is available for assisting the supplier at the Riverton Water Treatment Works



## Site Access

The site can be accessed by road.  
Offloading can only take place during normal business hours, Monday to Friday.

## Deliverables

**Below are the required deliverables.**

- Filter Media packaged in 25kg or 40kg bags and stored by grading.
- Transportation of Filter Media to Riverton Water treatment works.
- Off-load and store filter media bags in a designated area.

## Assumptions

All cost related to this project should be in-cooperated into the submitted quotation for review. No variation orders will be tolerated.

## Constraints

- Submission closing date will be on the **14th of November 2024**.

## Dependencies

Suppliers of Filter Media are limited. To assist with expediting the procurement process, below is a list of possible suppliers and their contact details:

Name of Company	Contact details		Location
	Email	Tel	
Kego Mining	karin@kegomining.co.za	0134921919	Witbank, Mpumalanga
Maxima Silica	sales@maximasilica.co.za	0140130362	Bultfontein, Boshhoek

## Risks and Mitigation

Non-Applicable to this work package

## Milestones

Not applicable to this work package

## Progress reporting

N/A tot this work package

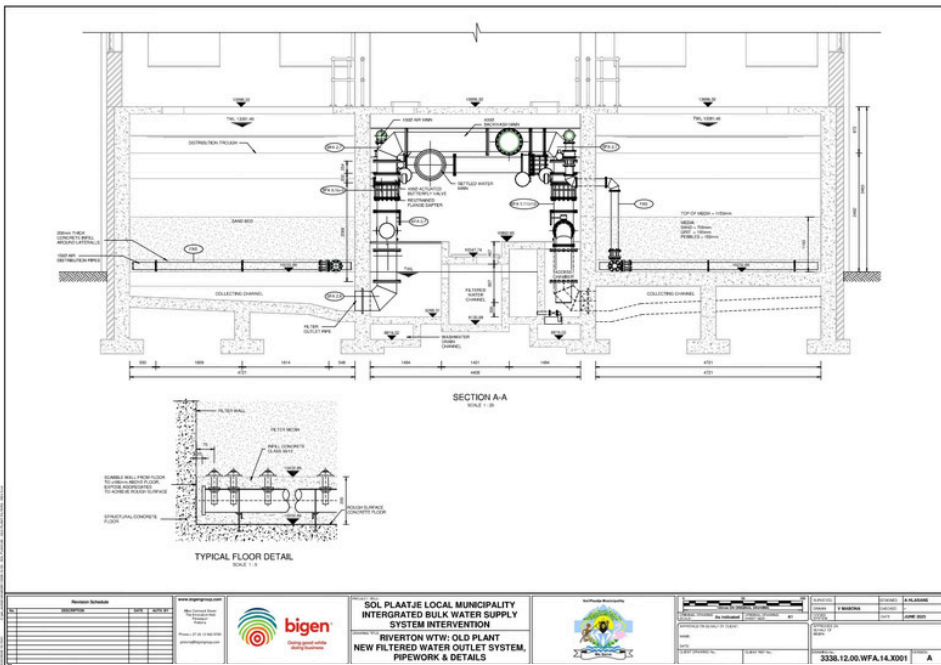


## Attachments and Appendices

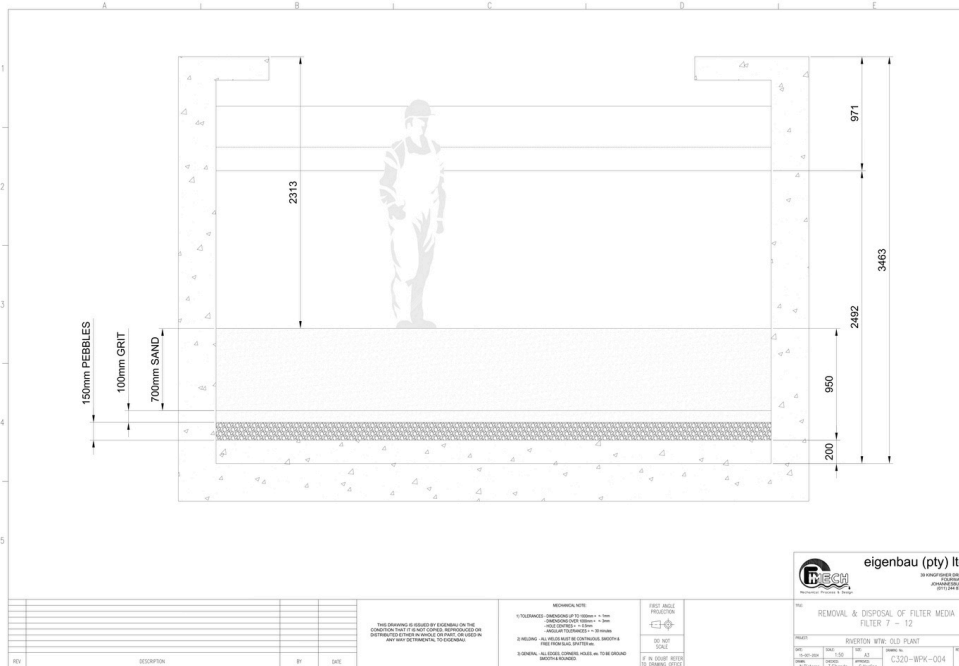
1. C320 – Drawing of Filter Media
2. C320 – Eigenbau Drawing of Filter bed
3. C320 – Schedule pricing of the supply of filter media
4. C320 – Specification for the supply of filter media.

## Approvals

All approvals will be done by the Main contractors Project Manager.



**C320 – Drawing of Filter Media**



**C320 – Eigenbau Drawing of Filter Bed**



## Returnable Documents

Below is a list of the required returnable documents:

1. Signed Quotation and Offer of Services addressing the Scope of Work.
2. Copy of CIDB Certification as proof of contractor's registration (Only application to Contractors who will be working on site).
3. CIPC Registration for the company (Only applicable to companies)
4. Tax Status Compliance or PIN. (This document is compulsory, and non-compliance will result in disqualification)
5. Certified copy of VAT Registration certificate
6. Certified copy of letter of good standing issued by the Department of Labour in terms of Act 130 of 1993.
7. Certified copy of Incorporation (Only required for applicants who are companies)
8. Certified copy of Partnership Agreement (If applicant is in a partnership)
9. Certified copy of Identity document of all owners/partners/directors etc.
10. Certified copy of the B-BBEE Status level verification certificate.
11. Copies of all identification for shareholder/directors/members etc (should not be older than 3 months)
12. CV of all key staff to be used on the project.
13. CV of the person who prepares the contractors Health, Safety and Environment plan.
14. Proof of Registration on the central supplier database (CSD)
15. Contractors Project Quality Plan.
16. Confirmation letter from bank for banking details.
17. Proof of Public Liability Insurance – not required for this package
18. List of experience in providing this service with contactable reference that are not related to the tendering entity.

### Notes:

- a. Submission closing date is on the **14th November 2024**.
- b. Other queries in this regard can be emailed to [tenders@eigenbau.co.za](mailto:tenders@eigenbau.co.za) no later than 48 hours prior to the closing of the tender.

## Commercial Terms and Conditions

### Payment terms

- 1.Payment: Payments to sub-contractors will be based on monthly progress and invoices of work completed.
- 2.Payment period: Payments will be processed and finalised 30days from month-end of submission of invoice.
- 3.Retention period: n/a
- 4.Variations: When the sub-contractor or vendor is asked to perform additional work and/or changes are made to the scope, a variation order can be made.
- 5.No Advanced payment will be made for any work packages.
- 6.All other payment related queries, disputes and resolutions will be governed by the Conditions of Contract for Plant and Design (FIDIC yellow book).