OMV (Pty) Ltd
N12 Highway Stilfontein
PO Box 823 Stilfontein, 2550
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www.omv.co.za

Request for Proposal

Bentonite Activation Plant

PROPOSAL NUMBER	OMVRFP001
COMMENCEMENT DATE	22 SEPTEMBER 2022
DESCRIPTION	PROPOSAL BENTONITE ACTIVATION PLANT – MILLING UNIT
CLOSING DATE	30 OCTOBER 2022 @ 12:00
PROPOSAL SUBMISSION	marinus@omv.co.za ; eddy.v@omv.co.za ; Corinne.s@raubex.com
QUERIES	marinus@omv.co.za ; eddy.v@omv.co.za ; Corinne.s@raubex.com

OMVRFP001

SECTION 1 – INTRODUCTION

1. Background

OMV (Pty) Ltd wishes to establish a Sodium Bentonite Activation facility in the Witbank area, near Highveld Industrial Park in the Mpumalanga Province of South Africa.

This request is for a Proposal to provide detailed design, procurement, construction, and commissioning of the Milling Unit of the Sodium Bentonite Activation plant. Please refer to the high-level PFD included as an annexure in this document.

2. RFP Submission

Suppliers are required to:

a) Submit proposal documents with supporting annexures to marinus@omv.co.za , Eddy.V@omv.co.za and Corinne.S@raubex.com no later than 12:00 on 30 October 2022.

Proposal documents will only be considered if received on or before the closing date and time, regardless of the method used to send or deliver such documents.

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3. RFP Deliverables

A detailed Proposal is to be compiled and inclusive of the following:

3.1 Main body of proposal:

a) Equipment Design proposal, with a detailed cost breakdown (cost accuracy +/- 20%)

b) Construction and Commissioning Proposal – (cost accuracy +/- 20%)

- Draft equipment list
- Media requirements (electricity and water)
- Other media allowances made by the Supplier (compressed air, gas, etc.)

c) List of applicable codes of practice (International, Local, etc.)

d) A draft methodology, highlighting the approach for design, construction, and commissioning

- It is foreseen that 3D model presentation will facilitate design reviews and development

e) Draft timeline (schedule)

3.2 Supporting Annexures:

a) List of software to be used for documentation, drawings, models, etc.

b) A project organizational chart including functional descriptions of the responsibilities.

c) Resumes and available certificates of competence of the employees intended to work on the project are required. OMV (Pty) Ltd requires contractors and consulting professionals to be registered with the relevant professional associations

d) Supplementary information:

- Three contactable references where a similar solution was provided in the last 5 years from the closing date of this RFP
- SARS certificate of good standing
- Company Registration certificate
- Non-disclosure Agreement
- Company profile
- JV Agreement in the case of a joint venture as well as a company profile of each of the JV partners

NB: It will be required for the Supplier to present the proposal to the client OMV (Pty) Ltd in the week after the RFP's closing date depending on the required stakeholders' availability.

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4. Rules of the RFP

f) The price(s) quoted shall be valid for a period of 30 days from the closing date and time of this RFQ.

g) The price(s) quoted must be firm and must be inclusive of Value Added Tax (VAT), rates, and taxes where applicable.

h) The price(s) must include all related expenses, i.e. transport, accommodation, etc. (where applicable).

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SECTION 2 – TERMS OF REFERENCE

5. Scope of the Work

The Service provider is required to:

5.1. Phase 1: Design a budget estimate Milling unit for the Sodium Activation facility
5.2. Phase 2: Construct the detailed designed (client signed off) Milling Unit
5.3. Phase 3: Provide construction and commissioning supervision and sign-off. Prepare and provide a technical close-out report on completion of commissioning

5.1.1 Phase 1 Deliverables

- Meet with the OMV (Pty) Ltd Bentonite Project team the clarify the requirements and present the initial proposal
- Itemized equipment list (quote based)
- Project management costs estimate
- High-level work breakdown structure (timing)
- General arrangement footprint layout
- Company Profile with relevant previous experience
- Detailed profile on Design engineer/engineers previous experience and qualifications

5.1.2 Phase 2 Deliverables

- Meet with the OMV (Pty) Ltd Bentonite Project team during the detailed design process (on a bi-weekly basis) to present design progress and review decisions
- Develop Design Documentation, sufficient for formal design reviews, HAZOPs, construction, and commissioning e.g.
- Plant layout and general arrangement
- Process Flow diagram (PFD)
- Process Piping and Instrumentation Diagrams (P&ID).
- Fluid List and piping class
- Equipment process datasheet
- Equipment List
- Critical spares list
- Interlock descriptions
- Safety Design Criteria
- Safety devices process datasheet
- Utility Requirements
- Operation and Maintenance plan
- Bills of materials
- Operator training requirements
- Updates on plant cost estimate (with supporting documentation)

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- Approved for Construction (AFC) documentation

5.1.3 Phase 3 Deliverables

- Health and Safety file at least 3 weeks prior to commencement of construction. The service provider will be required to present and update this file for the whole duration of the contract and make provisions for all expenditures related to health and safety measures required for the full duration of the contract.
- Construction and commissioning planning meetings.
- Technical support and sign-off during construction and commissioning.
- Updated documentation
  - Final plant layout drawings
  - Final PFDs
  - Final Operation and Maintenance plan
  - Final Plant Operating Philosophy
  - Etc.
- OMV (Pty) Ltd. personnel training facilitation

6. Performance requirements

The plant will process Calcium Bentonite material and activate it to a Sodium Bentonite material.

The following **battery limits** need to be adhered to:

- All mechanical equipment to be supplied by the supplier
- Electrical control equipment supplied by the client (OMV)
- Field instrumentation specifications supplied by supplier – integration and procurement completed by the client (OMV)
- Construction completed by the client (OMV)
- Civils completed by client – civil design by contractor/supplier
- Buildings supplied by the client (OMV).
- Ex-works supplier

Below are the required inputs/outputs for the Milling unit which were based on the high-level PFD.

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6.1.1 Milling Plant

Inputs		Outputs	
Active Hours	24 hpd	Feed in for 3 mills	8 tph
Active Days	5 dpw	Total feed in	17 tph
Active Weeks	48 wpy	Feed out for 3 mills	5.5 tph
Target product out	80 000 tpy	Total feed out	16tph
Number of mills	3	Filter Areas	350 m2
Moisture	10-12 %	Moisture	8-10 %
Losses per mill	2%	5% Maximum retained on 106µm	
Availability	85%	15% maximum retained on 75µm	

7. Applicable Standards

The laws and standards applicable in the Republic of South Africa, including, but not limited to the latest revisions and amendments of:

7.1.1. Occupational Health and Safety Act (OHS) No. 85

7.1.2. National Environmental Management Act (NEMA) 107

7.1.3. South African National Standards (SANS)

8. General timeline

The following key milestones are targeted:

Action	Target Dates
Issue of RFP	30 September 2022
Clarification Meetings with OMV	1 Oct – 21 Oct 2022
Submission of Proposal	30 October 2022
Proposal presentation	1 November – 6 November 2022
Detail designs and Capex budget	7 November – 2 December 2022

Personnel listed by Suppliers in their proposal, to remain with the project from commencement to handover of the facility. If this is not possible, the Supplier will ensure that a consultant of the same quality is retained for the balance of the duration of the contract. In all cases, a project responsible person will be required to attend project meetings. Attendance by a subordinate level will only be accepted in exceptional cases.

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9. Documentation

The appointed Supplier shall be required to use MS SharePoint for document storage and management during the execution of the works and must allow for licenses accordingly.

10. Qualifying Criteria

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

	Points
Price, Previous Experience and Location	80
Preferential Procurement	20
Total Maximum points that can be awarded	100

The points will be allocated as follows:

10.1.2 Preferential Procurement point allocation:

Description	Black Ownership (%)	Points
Black Youth Owned Company	51 > 100%	20
Black Woman Owned Company	51 > 100%	18
Black Owned Company	51 > 100%	15
Black Owned Company	26% > 50%	10
Black Owned Company	0 to 25%	0

10.1.3 Price, previous relevant experience, and location

a) Price point allocation:

Description	Points
Lowest tender price-Outliers Removed	30
After the lowest tender is established, each tender price in increasing order will be deducted 5 points	

b). Previous Relevant Experience point allocation:

Description	Points
Company Profile with relevant previous projects	20

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Site-Visits Conducted with previous projects and manufacturing facility	10
Competencies of project leader/Design Engineer/s	20

11. Proposal Evaluation

a) OMV (Pty) Ltd evaluation decision will be final
b) OMV (Pty) Ltd reserves the right to accept or reject any proposal
c) OMV (Pty) Ltd reserves the right not to make an appointment

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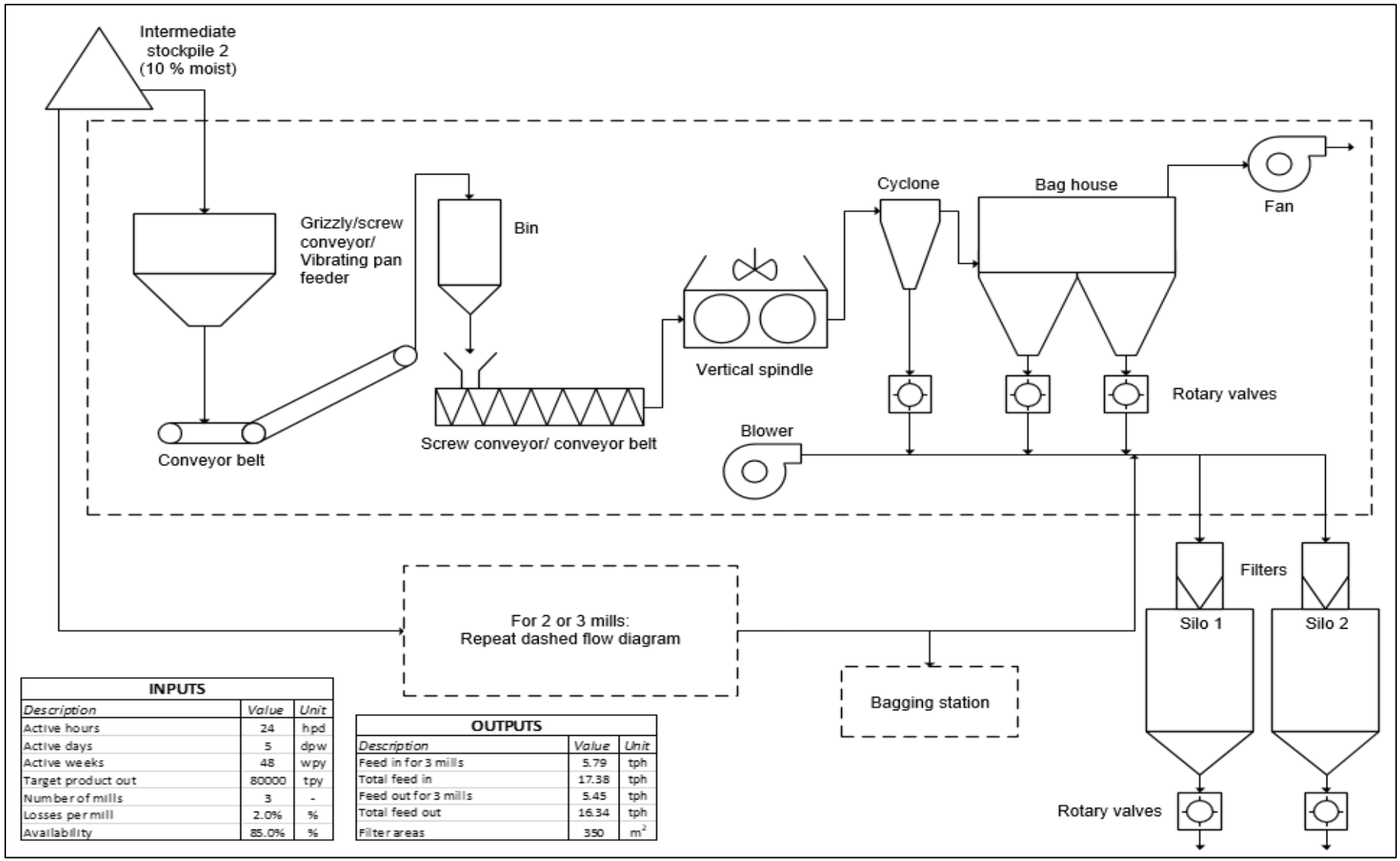
Annexure 1: Milling Unit Concept PFD



INPUTS		
Description	*Value*	*Unit*
Active hours	24	hpd
Active days	5	dpw
Active weeks	48	wpy
Target product out	80000	tpy
Number of mills	3	-
Losses per mill	2.0%	%
Availability	85.0%	%

OUTPUTS		
Description	*Value*	*Unit*
Feed in for 3 mills	5.79	tph
Total feed in	17.38	tph
Feed out for 3 mills	5.45	tph
Total feed out	16.34	tph
Filter areas	350	m^2