

Request for Quotation 003 Ultra Fine Vertical Stirred Mill Pos.190

Project: LIFE19 MIBA Filler – Pilot
Reference: LIFE19 CCM/NL/001219 - 190
Revision: 0
Date: 9 July 2021

This is the Request for Quotation for a wet **Ultra Fine Vertical Stirred Mill**. You are invited to make your best quote for the delivery as described in this and applicable documents.

1. Overall project

This project aims to demonstrate a breakthrough climate-change mitigation technology for the concrete industry by replacing cement with a low-carbon binder. The EU is subsidizing the first demonstration plant under the project name LIFE MIBA Filler.

The laboratory-scale research has resulted in a process flow diagram which we want to upscale in this MIBA Filler pilot plant (demo phase I) before having a full-scale demonstration plant (demo phase II).

Level 1 time schedule:

Start procurement:	Q3 2021
Start site construction:	Q1 2022
Start commissioning:	Q3 2022
Start operational test period:	Q1 2023

The Pilot plant will be located outdoors in The Netherlands.
2. General design

The design of the plant will be based on having it fully automated and it shall require as less as possible human interference. Following basic requirements are set for the design, the plant/equipment/components are designed based on following:

 - In full accordance with the requirements of the European Machinery Directive 2006/42/EC.
 - Designed for 24/7 operation; >8000 h/y
(real operational hours are expected to be around 3000 hours per year)
 - High availability, only a minimum amount of planned maintenance is required. Simple and robust design.
 - Equipment used in this pilot plant will be scalable to commercial size plant using the same technology.
3. Scope

The quotation shall be based on this document and following documents and items:

 - *LMF – Template Award Contract Agreement June 2021 Rev.0.pdf*
describing the required back to back articles of our LIFE19 Grant Agreement
 - *General_Terms_and_Conditions_Inashco_v4-20170420.pdf*
describing our standard purchase conditions
 - *LMF-SPEC-001-Documentation and Drawings Rev.0.pdf*
describing the requirements of the requested documentation
 - *LMF-PLN-001-Communication Rev.0.pdf*
 - *LMF-SPEC-008-Ultra Fine Vertical Stirred Mill Pos.190-Rev.0.pdf*
describing the specific and technical specifications for the delivery
 - Including packaging and loading for transport.

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4. Quotation

The quotation shall be based on a complete supply; after erection and installation, the delivered item will be ready for operation.

The quotation shall at least have following items:

- Reference projects/tests, including a description of previous experiences with Incinerator Bottom Ash (IBA).
- Detailed company information
- Comprehensive description of the scope of supply, including technical specifications with relevant technical and performance data, to enable a proper evaluation.
- Best price(s)
- List of exclusions
- List of deviations
- Priced list of options
- Priced list of spare parts
- Priced list of wear parts
- Comprehensive General Arrangement Drawing(s) stating the main components, dimensions, product/material inlets/outlets, wear parts, required space for wear parts exchange, battery limits
- Support structure design specifications: static and dynamic loads to support structure/flooring.
- Transport information; weight and dimensions
- Process and Instrumentation Diagram (if applicable) showing the scope, battery limits.
- Description including duration of the expected maintenance activities including a schedule of planned inspections.
- Time schedule from order to ready for shipment.
- Travel rate for support/supervision during erection
- Daily rate for support/supervision during erection
- Expected period for support/supervision during erection
- Travel rate for support/supervision during commissioning
- Daily rate for support/supervision during commissioning
- Expected period for support/supervision during commissioning

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5. Selection criteria

The quotation shall be reviewed on following selection criteria:

- Proven experience in handling Municipal solid waste Incinerator Bottom Ash (MIBA)
- Operator safety
Simplicity and robustness of the design
Operability and maintainability
Durability
- Quality of the offered item(s), compliance with the request and completeness
- Cost
Item price(s) for both pilot and commercial scale
Maintenance and operational costs (availability, consumables, spare/wear parts)
- Financial and technical stability of the contractor/supplier
- Delivery time