



## CLEAN COOKING MADAGASCAR

### Clean Cooking Madagascar EMD

#### Evaluation Criteria

This document aims to provide the evaluation criteria that will be used for the selection of the contractor among manufacturers for the design and construction of 2,000 up to 5,000 liter per day ethanol micro distillery. The criteria are provided together with the other bidding documents (Call for quotations and Template for quotations). This document must be considered as an attachment to the call for quotations, where the bidder can find detailed information about the project and the equipment required.

The distillery will produce fuel for ethanol cooking stoves only. The buyer have the intention to expand the ethanol cooks stove projects, through financing from carbon credits. The goal of the buyer is to set up a large number of ethanol micro distilleries, and this request for proposal is the request for the first such system to be set up by the buyer. If the supplied micro distillery is operating satisfactory, the buyer might seek to request to buy more distilleries in the next two years. These additional distilleries might be installed in Madagascar or in mainland Africa.

Quotations received for the design and construction of a 2,000 liter per day minimum to a 5,000 liter per day maximum ethanol micro distillery will be evaluated against the set of criteria specified in this document. Each criterion is graded with a mark from 1 to 5. The mark is multiplied by a weighting factor and the sum of all criteria provides a single value that will be used for the selection. The weighting factors reflect the relative importance that the Purchaser assigns to each criterion. The document will outline and explain the different criteria and finally provide a table with weighting factors and maximum marks achievable.

**Please note: The EMD project is a development project whose budget is limited. If the highest ranked quotation identified through the evaluation criteria presented in this document exceeds the maximum project budget for the procurement, the quotation with the highest rating within project budget will be selected.** Nevertheless the Purchaser guarantees a transparent selection process and this measure will be applied in the event the quotation selected through the criteria's application exceeds the maximum budget available for the procurement.

Please find the list of criteria:

Criterion 1: Submitted price (Mark: 1 to 5; Weight: 4)

The submitted price is the price expressed in the quotation for the supply of the goods and services required, to be provided in the format and through the specifications outlined in the bidding documents. The price should be considered reasonable within the scope of the project budget, discussed in further detail in the bidding documents and include technical services as well as the product/technology.

Criterion 2: Technical robustness (Mark: 1 to 5; Weight: 5)

This is to measure the technical soundness of the quotation. In order to obtain a high mark for this criterion, the bidder must outline clearly the production process, dividing it into different steps, identifying inputs and outputs for each step and drawing process schemes, and providing detailed technical specifications for each component required by the bidding documents.

Criterion 3: Reliability and expertise of the manufacturer (Mark: 1 to 5; Weight: 3)

This criterion will measure the expertise of the bidder in providing the kind of equipment required. Particular attention will be paid to previous experience with small and micro scale distilleries and projects already undertaken in developing countries. The mark for this criterion will be assigned according to the information and the references provided in the devoted paragraph of the quotation, as recommended in the bidding documents.

Criterion 4: Energy saving measures (Mark: 1 to 5; Weight: 2)

Project location (....., Madagascar) can create challenges in terms of energy supply. This criterion will measure the capacity of the bidder to provide the required amount of bio-ethanol per day with the lowest possible energy demand. Particular attention will be paid to energy saving measures, fuel and technology for thermal energy supply, and average electric power demand. The mark for this criterion will be assigned according to the information provided in the devoted paragraph of the quotation, as recommended in the bidding documents.

Criterion 5: Water saving measures (Mark: 1 to 5; Weight: 1)

Project location (....., Madagascar) can create challenges in terms of water supply. This criterion wants to measure the capacity of the bidder to provide the required amount of bio-ethanol per day with the lowest possible water demand. Particular attention will be paid to water saving measures, demand and technology for waste water treatment and average water demand. The mark for this criterion will be assigned according to the information provided in the devoted paragraph of the quotation, as recommended in the bidding documents.

Criterion 6: Waste water treatment (Mark: 1 to 5; Weight: 1)

The EMD is expected to integrate a waste water treatment unit meeting local and international standards. The criterion will measure the proposed waste treatment plan in respect of technology and quality. The mark for this criterion will be assigned according to the information provided in the devoted paragraph of the quotation.

Criterion 7: Process simplicity, training and technical support (Mark: 1 to 5; Weight: 2)

The capacity of the production process may be run by personnel with low or no previous qualified technical experience is considered an asset. The knowledge and skills required to run the plant have to be conveyed to the local staff by the bidder through the intensive training to be undertaken before the project start. After that, warranties on equipment and technical support during operation are to be provided by the bidder. This criterion will measure the quality of the quotation in these three areas. The mark for this criterion will be assigned according to the information provided in the devoted paragraph of the quotation, as recommended in the bidding documents.

***Criterion 8: Flexibility to the local environment*** (Mark: 1 to 5; Weight: 2)

Project location (....., Madagascar) requires the process to be flexible. The yeast necessary for fermentation or the chemicals required for waste water treatment could be not available in the Country or be available sporadically. Energy and water supply can suffer several interruptions during the production process. This criterion will measure the adaptability of the process to the local environment. The mark for this criterion will be assigned according to the information provided in the devoted paragraph of the quotation, as recommended in the bidding documents.

**Summarizing table with the weighting factors:**

| N°           | Criterion  | Mark   | Weighting Factor | Maximum grade |
|--------------|--|--------|------------------|---------------|
| 1            | Submitted price                                    | 1 to 5 | 4                | 20            |
| 2            | Technical robustness                               | 1 to 5 | 5                | 25            |
| 3            | Reliability and expertise of the manufacturer      | 1 to 5 | 3                | 15            |
| 4            | Energy saving measures                             | 1 to 5 | 2                | 10            |
| 5            | Water saving measures                              | 1 to 5 | 1                | 5             |
| 6            | Waste water treatment                              | 1 to 5 | 1                | 5             |
| 7            | Process simplicity, training and technical support | 1 to 5 | 2                | 10            |
| 8            | Flexibility to the local environment               | 1 to 5 | 2                | 10            |
| <b>Total</b> |  | -      | -                | <b>100</b>    |

The final scope of the criteria's application is to get to a single value, which expresses Clean Cooking Madagascar's appreciation for the quotation. Through these values, a final ranking will be created and the

bidder for the first quotation in the list will be selected to provide the goods and services required. As already said, the only limitation to this procedure is the project budget: if the first quotation in the ranking exceeds the maximum project budget for the procurement, the higher-ranking quotation within the project budget will be selected.