



AGRO CHEMICAL & FOOD COMPANY LIMITED

EXPRESSION OF INTEREST (EOI)

FOR

DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF A METALLIC BIOMETHANATION REACTOR AND ASSOCIATED ACCESSORIES FOR TREATMENT OF MOLASSES BASED DISTILLERY EFFLUENT.

Agrochemical and Food Company Ltd (ACFC) invites Expression of Interest (EOI) from eligible, qualified and experienced firms with capacity to mobilize required resources to undertake detailed design, supply, install and commission of a Bio-methanation Reactor. Bidders should provide information demonstrating that they have required financial capabilities, comprehensive technical solution and relevant experience to implement the project.

1. Background Information

Agro-chemical and food company ltd (ACFC) is a Kenyan Parastatal company under the Ministry of Agriculture. It was incorporate in 1978 as a joint venture between the Government of Kenya and a Private investor The Mehta International Ltd.

ACFC produces Extra Neutral Alcohol and Baker's Yeast as its core products, using sugarcane **Molasses** as the main raw material. The company has a 50klpd ENA distillery using multi pressure distillation system.

ACFC is desirous of installing a steel tank reactor for Bio-Methanation of distillery effluent. The project's objectives are to improve on reduction of Chemical Oxygen Demand (COD) and Biological Oxygen Demand (BOD), ease of operation and maintenance, aid sludge removal and result in more biogas production & harnessing mechanisms.

2. Project Scope

The scope of the of this project is to Design, Supply, Supervise civil works, mechanical and electrical works, installation, training of operators and Commissioning of Metallic Bio-

Methanation Reactor.

The Bio methanation Unit **must** have the capacity to achieve the following quality parameters at steady state:

SNo.	Parameters	Raw Spent Wash	Treated Spent wash
1.	Flow (m ³ /day)	600-800	600-800
2.	pH	4.0 - 4.6	7.0 -7.5
3.	BOD (mg/L)	40,000-50,000	Reduction from inlet 85% ±3%
4.	COD (mg/L)	85,000-100,000	Reduction from inlet 70% ±5%
4.	Temperature (°C)	38-40	35-38
5.	TSS (mg/L)	<5,000	<6000
6.	Biogas Production with >55% Methane		>20,000m ³ /day

3. Objective of the expression of interest.

This request for expression of interest seeks to identify and shortlist companies who will be invited to submit detailed bids through request for proposal to perform the above task. The responsive company should meet the requirements outlined below and give a detailed technical proposal/solution, outlining the technology used and overall design of the various components.

4. Requirements

Interested bidders should provide information in their EOI indicating their suitability to perform the assignment and **make presentations at ACFC if required to do so**. They should also provide relevant and certified documentary evidence of past similar projects successfully accomplished.

To be eligible the firm must meet the following minimum criteria:

- Provide background and structure of the company, physical address and details of contact persons and attach **certified** copies of the following **mandatory** documents:

- I. Certificate of Incorporation/Registration
 - II. Current certification by a recognized professional body.
 - III. Valid Tax Compliance Certificate.
 - IV. List of directors together with their identification documents.
- Certified Audited financial statements for the last two years and certified current bank statement for the last six months.
 - Language: the EOI must be presented in English.
 - Provide evidence of minimum (3) three successfully completed contracts of similar nature and magnitude within the last five years.
 - Provide reference letters and contacts of (5) five corporate clients, where you successfully completed similar projects.
 - Technical proposal showing process description and flow diagram, units involved with dimensions, materials of construction and overall performance of the solution proposed.
 - Proposal on project schedule and implementation methodology to deliver the project.

5. Evaluation Criteria

S No.	Evaluation Criteria	Max Score
1.	Provide company profile with firm's physical address, telephone contacts, organizational structure, list of directors.	4
2.	Evidence inform of Completion Certificates, Payment Certificates or LPO for ongoing Jobs for at least Four (4) successfully completed contracts within the last Ten years	12
3.	Provide reference letters and contact details of five (5) corporate clients where similar or related projects have been successfully completed.	5

4.	Company's Financial strength demonstrated through Certified Audited Accounts for the last two (2) years and Bank Statement for the last 12 months	12
5.	Personnel ability demonstrated through Curriculum Vitae and Qualification Certificates of at least Five (5) key personnel with technical skills relevant to the project (Mechanical Engineering, Structural Engineering Electrical Engineering, Environmentalist, Biotechnologist, Welding Certification or any other related academic qualification). Indicate the list of projects handled by each, the Five (5) must have participated in some of the referenced jobs	10
6.	Technical proposal showing; Process description, details of units used in terms of dimensions, materials of construction and overall performance of the solution offered to solve the problem.	25
7.	Process flow diagram, Process and instrumentation diagram and Process layout	20
8.	Scope of work with detailed description of implementation and methodology of delivering the project.	10
9.	Serialized document with page numbers and table of contents	2
	TOTAL	100

Note:

- i) The pass mark is 70%. Only the firms that score a minimum of 70% shall be invited to submit specific and detailed RFP
- ii) **Shortlisted Firms will be invited to submit detailed Requests for Proposals (RFPs)**
- iii) ACFC reserves the right to accept or reject any EOI, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby

incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for ACFC's action

Expression of interest (EOI) in plain sealed envelopes clearly marked "**EXPRESSION OF INTEREST (EOI) FOR DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF A METALLIC BIOMETHANATION REACTOR AND ASSOCIATED ACCESSORIES FOR TREATMENT OF MOLASSES BASED DISTILLERY EFFLUENT.**" The tender reference Number **ACFC/INT/01/MAR/2020** and the words "**DO NOT OPEN BEFORE April 6th, 2020 AT 1200HRS**" and be deposited in the tender box at the entrance to the main administration block at the Factory in Muhoroni – Kisumu County, Kenya or be mailed to the address below so as to be received on or before **April 6th, 2020 at 1200hrs.**

The Resident Director and Chief Executive
Agro-chemical and Food Company Limited
P.O. Box 18 – 40107
Muhoroni, Kenya

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