



Date: 3/14/16

COMPANY INFORMATION

Company Name: Environmental Management Group International, Inc.	
Phone: 484.444.0400	Web Site: http://www.emgint.com/contract.html
Address: PO Box 1600	City: Media
State: PA	Zip Code: 19063-1600

BUSINESS CONTACT

TECHNICAL CONTACT

Name: Manaf Farahan
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BUSINESS HISTORY

How long have you been in business? Since 1996

Are you part of a larger company? Yes No

Did you exist as another company before this company was formed? Yes No

If so, what was that company's name?

Number of employees? <10

What is your business structure? Corporation

What types of insurance and or surety do you provide?

Client specific

References. Please provide customers or colleagues with whom we can discuss your business and performance.

Please include a separate list with company name, location, contact name and contact information.

15-18 systems in U.S.A.
5 to 6 on farms

Describe your business service(s). *For example: consulting, development, engineering, equipment sales, finance, other.*

Consulting, Development, Engineering, Equipment Sales, Finance, & owner

Area or region of operation.

North America

Does your company hold any patents or the rights to any patents? *Please identify.*

Trade secret

Do you manufacture equipment? Yes No *Please describe.*

Do you integrate equipment manufactured by others? Yes No

If you integrate, please list the names of the companies you represent.

Integrate pumps and auxiliary equipment

How do you answer potential customer's question about financial strength of your company?

20 years of experience

Do you offer technical/service support? **Yes** **No** *If so, what methods?*

Only technical guidance on fluidized bed reactor

Do you offer design services? **Yes** **No** *Please describe.*

Do you offer financing? **Yes** **No** *If so, what terms?*

Yes, depends on the client

Are you a full stop shop? *Design to construction to operate?* **Yes** **No** *Please describe.*

Do you have preferred partners? **Yes** **No**

If so, please list and provide contact information/identify partners by name.

Do you have any third-party verification/research that has been done on this technology? Yes No

If so, please describe.

Do you provide a performance guarantee? Yes No

If so, what are you guaranteeing? For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other.

Yes, removal efficiency. Primarily for the food and beverage industry. Typically, EMG is partnered with the farms.

Are there any other aspects of your business that you feel should be included in this document?

INITIAL TECHNOLOGY OVERVIEW

This information is to guide in the development of a more specific and detailed Technology Information Request. Please answer the following questions for each Technology or Service Provided.

What is the name of the technology or service?

Fluidized bed reactor or hybrid system (fluidized bed + solid digestion)

What unit process is the technology used in?

For example: initial collection/transfer manure storage, energy recovery, primary/coarse solids recovery, advanced suspended/fine solids recovery, drying, struvite production, nitrification denitrification, ammonia stripping, algae, vermi composting, membrane filtration, evaporation, other.

Anaerobic digester – fluidized bed

How many systems have you installed on dairy farms or other livestock operations?

5 to 6 on farms

Size of farm(s)?

250+ dairy cows

Location of farm(s)?

North America

What's the smallest/largest farm for your system?

250 to 1,000+ cows

Input material description/characteristics:

For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.

Raw or diluted manure

Does the technology treat the full manure stream for a farm or a fraction of the stream?

Yes, full stream or a fraction. Driven by farms needs/desires

Do you consider this a mature system or ongoing farm development?

Mature

Any weather constraints? **Yes** **No** *Please describe.*

Cold weather protection necessary

Any bedding constraints? **Yes** **No** *Please describe.*

Sand removal required

Is this process scalable and to what extent (top and bottom limits)? **Yes** **No** *Please describe.*

Do you have a known scaling factor? **Yes** **No** *Please describe.*

Unknown

Input and output of your unit/system – do you have a mass balance analysis? Yes No *Please describe.*

Yes, rough mass balance

Do you consider this technology part of a larger system that you provide? Yes No *Please describe.*

Yes, manure management, but this technology only focuses on biogas production

Has your technology been accepted by the NRCS? Yes No *Please describe.*

Would you be willing to provide information for a technical review? Yes No

Would you be willing to respond to a Request for Quotation (RFQ) on a generic project for comparison of your technology against other technologies in the same unit process? Yes No

Are there any other facts about this technology that you feel should be included in this document?