NEWTRIENT
INNOVATIVE SOLUTIONS IN RESOURCE RECOVERY

TECHNOLOGY PROVIDER
BUSINESS INFORMATION REQUEST

Date: 6/09/16- VM, emailed 6/13

COMPANY INFORMATION

Company Name:	Kyte Centrifuge LLC		
Phone:	832.368.2667	**Web Site:**	http://www.kytecentrifuge.com/
Address:	10 E Owl Creek Ln	**City:**	Fairview
State:	NC	**Zip Code:**	28730

BUSINESS CONTACT

Name:	David Kyte
Phone:	832.368.2667
Email:	dave@kytecentrifuge.com
Address:	10 E Owl Creek Ln
City:	Fairview
State:	NC
Zip Code:	28730

TECHNICAL CONTACT

Name:	David Kyte
Phone:	832.368.2667
Email:	dave@kytecentrifuge.com
Address:	10 E Owl Creek Ln
City:	Fairview
State:	NC
Zip Code:	28730

BUSINESS HISTORY

How long have you been in business? No response given

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?

No response given

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.

Rosendale Dairy (3 machines for a combined flow of 150 GPM+), WI

Marks Farm Dairy (2 of the largest centrifuges ever manufactured), NY

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

Sales of reconditioned centrifuges, cost savings of 40 to 60% compared to new

Area or region of operation.

USA

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

No

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

Re-condition equipment

Do you integrate equipment manufactured by others? ○ **Yes** ◉ **No**
If you integrate, please list the names of the companies you represent.

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

Response not given

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

Yes, pilot testing

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

Yes, basic design engineering

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

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.

Not at this time. Working with PSU

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.

Separation efficiency and nutrient recovery based on pilot scale testing

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

No response given

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?

Centrifuge

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.

Primary/secondary solids recovery

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

2 installed on commercial dairies.
1 being installed at PSU as part of a USDA study

Size of farm(s)?

3,000 to 8,000 cows

Location of farm(s)?

WI, NY, PA

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

3,000 to 8,000 cows

Input material description/characteristics:
For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.

Sand free liquid or digested manure, screened to ¼" particle size

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 necessary

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

Yes, limits not really known

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, for Rosendale and Marks.
Soon PSU will be able to provideindependent review

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

Yes, manure treatment

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

Unknown

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?

No response given