



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2019-2020

LFIR#: 1727

1. **Title of Project:** Fort Meade Nutrient Recovery

2. **Senate Sponsor:** Ben Albritton

3. **Date of Submission:** 02/13/2019

4. **Project/Program Description:**

The State of Florida, through a FY 18/19 Funding Initiative, assisted in the development of a process for the production of phosphoric acid, an essential ingredient for making fertilizers and other products. This process produces no high volume waste, avoiding the 5 tons of solid waste generated for every ton of phosphoric acid produced by the current technology that is used in Florida and throughout the world. This new process makes use of rejected Florida phosphate rock and also produces an aggregate material that is expected to be useful in the construction industry. A broad group of US and international investors, including the Florida Opportunity Fund, has deployed more than \$53 million over the last several years to support research and development efforts including construction and operation of a demonstration and pilot plant in Fort Meade. JDCPhosphate is developing this technology and seeks funds to assist with proving the technical and commercial aspects of it's technology.

5. **State Agency to receive requested funds :** Department of Environmental Protection

State Agency Contacted? No

6. **Amount of the Nonrecurring Request for Fiscal Year 2019-2020**

Type of Funding	Amount
Operations	1,000,000
Fixed Capital Outlay	
Total State Funds Requested	1,000,000

7. **Total Project Cost for Fiscal Year 2019-2020 (including matching funds available for this project)**

Type of Funding	Amount	Percent
Total State Funds Requested (from question #6)	1,000,000	100.00%
Federal		0.00%
State (excluding the amount of this request)		0.00%
Local		0.00%
Other		0.00%
Total Project Costs for Fiscal Year 2019-2020	1,000,000	100.0%

8. **Has this project previously received state funding?** Yes

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	NonRecurring		
2018-19		750,000	1642A	No

9. **Is future-year funding likely to be requested?** No



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10. Details on how the requested state funds will be expended

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		
Other Salary and Benefits		
Expense/Equipment/Travel/Supplies/Other		
Consultants/Contracted Services/Study		
Operational Costs:		
Salary and Benefits	Wages for pilot plant supervisors, operators, maintenance personnel, and lab technicians.	750,000
Expense/Equipment/Travel/Supplies/Other	Pilot plant raw materials, utilities, equipment rentals, consumables, repairs, maintenance and process improvements.	250,000
Consultants/Contracted Services/Study		
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/Land/Planning Engineering		
Total State Funds Requested (must equal total from question #6)		1,000,000

11. Program Performance:

a. What is the specific purpose or goal that will be achieved by the funds requested?

The funds requested will cover some of the costs required for plant operations, maintenance and improvements. These actions are necessary for the performance evaluation of the major process equipment, manufacture of sufficient quantities of phosphoric acid and aggregate for quality testing, and support for the design and development of a commercial scale plant.

b. What are the activities and services that will be provided to meet the intended purpose of these funds?

JDCPhosphate will provide resources to cover selling, general and administrative expenses as well as costs for professional services, consultants, travel, and supplies.

c. What are the direct services to be provided to citizens by the appropriations project?

Successful operation of the pilot plant run is necessary for commercialization of this new technology. Successful commercialization will provide for a substantial reduction of solid waste produced by the current phosphate industry; extend the life of Florida's phosphate industry by decades by making use of phosphate rock that is currently not mined, or mined and rejected as a raw material, due to the phosphate rock quality criteria of the current phosphoric acid technology; and the production of a useful co-product aggregate for use in the construction industry.

d. Who is the target population served by this project? How many individuals are expected to be served?

40,000 Floridians are directly or indirectly employed in the phosphate industry. The successful deployment of this technology will help sustain these jobs as well as result in the creation of numerous employment



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opportunities for the production and manufacturing of new aggregate products in several central Florida counties.

e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?

The successful demonstration of the process via the production of phosphoric acid and aggregate in sufficient quantities to evaluate their quality and commercial value on a routine basis, is a necessary step to commercialize this new production technique. Once these outcomes are achieved, economic justification of larger plants can be undertaken.

f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for in the contract?

Since these funds will be used to operate, maintain and modify a demonstration/pilot plant for new process technology, penalty provisions are not traditionally applicable.

12. The owner(s) of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owner(s) of the facility and the entity.

The requested funding is for operations, maintenance and improvements of existing capital facilities.

13. Requestor Contact Information:

- a. **Name:** David Blake
- b. **Organization:** JDCDevelopment
- c. **E-mail Address:** dblake@jdcphosphate.com
- d. **Phone Number:** (863)285-8607

14. Recipient Contact Information:

- a. **Organization:** JDCDevelopment
- b. **County:** Polk
- c. **Organization Type:**
 - For Profit
 - Non Profit 501(c) (3)
 - Non Profit 501(c) (4)
 - Local Entity
 - University or College
 - Other (Please specify) Research and Development - Physical
- d. **Contact Name:** Mark Vignovic
- e. **E-mail Address:** mvignovic@jdcphosphate.com
- f. **Phone Number:** (863)285-8607

15. Lobbyist Contact Information

- a. **Name:** Frank Bernardino



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- b. Firm Name:** Anfield Florida
- c. E-mail Address:** frank@anfieldflorida.com
- d. Phone Number:** (866)960-5939