

**REQUEST FOR PROPOSAL (RFP)**  
**DIRECT FRACTIONATION PYROLYSIS PLANT – TIRES & PLASTICS**

**ENVIRONMENTAL SOLUTIONS POLAND SP ZOO**  
**UL TRAKTOROWA 196**  
**LODZ, 91 – 218, POLAND**

**12<sup>TH</sup> APRIL 2013**

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## **1. SUMMARY AND BACKGROUND**

Environmental Solutions Poland Sp. Z.o.o ('The Company') is currently accepting proposals to for the installation of a turnkey pyrolysis plant that uses the direct fractionation method and subsequent training. The Company is a special purpose vehicle that has been created to operate a pyrolysis plant that will process waste plastics & tires. The company has a full permitted site in Lodz, Poland and is in receipt of a grant from the European Union ('EU') who will partially fund this project.

The purpose of this Request for Proposal (RFP) is to solicit proposals from various candidate organizations, conduct a fair and extensive evaluation based on criteria listed herein, and select the candidate who best represents the direction the company wishes to go.

## **2. PROPOSAL GUIDELINES**

This Request for Proposal represents the requirements for an open and competitive process. Proposals will be accepted until 5pm CET April 19<sup>th</sup> 2013. Any proposals received after this date and time will be returned to the sender. All proposals must be signed by an official agent or representative of the company submitting the proposal and should also include;

- The full name of the bidder
- Address or Headquarters of the bidder,
- Telephone Number
- Tax Identification Number
- Offer Bid Term.

If the organization submitting a proposal must outsource or contract any work to meet the requirements contained herein, this must be clearly stated in the proposal. Additionally, all costs included in proposals must be all-inclusive to include any outsourced or contracted work. Any proposals which call for outsourcing or contracting work must include a name and description of the organizations being contracted.

All costs must be itemized to include an explanation of all fees and costs.

Contract terms and conditions may be negotiated upon selection of the winning bidder for this RFP. All contractual terms and conditions will be subject to review by the company and its legal advisors and will include selection criteria defined in this RFP.

## **3. PROJECT PURPOSE AND DESCRIPTION**

**The purpose of this project is as follows:**

The company is in receipt of a grant from the European Union that will partially fund this project. The company is going to operate this pyrolysis plant and create a readily sellable product that will be innovative and profitable.

The company has been established to offer an environmentally friendly alternative to landfill. The company is going to operate this pyrolysis plant and create a readily sellable product

**Project Description:**

The company is seeking a turnkey provider who will design, install, commission and provides training on a pyrolysis plant that uses the direct fractionation method for processing materials. The project should be design in accordance with the company's specification (as indicated in project scope) to be capable of processing up to 15 tones per day of material and creating an oil as a bi product.

#### **4. PROJECT SCOPE**

The scope of this project includes all design, installation, commissioning and training required to operate the pyrolysis plant. The pyrolysis plant will have the following characteristics;

- It will use the direct fractionation method
- The direct fractionation method will utilize nitrogen gas and all heating will be conducted in an oxygen free environment.
- The direct fractionation method will all for the synthetic gases to be recycled in through-out the system where possible
- It will be capable of accepting up to 15 tons per day of material.
- This material will be capable of being soiled, direct and of having a high moisture content
- It will run on a batch system
- It will be capable of operating in three cycles over a 24 hours

The selected bidder will be responsible for the custom design of a plant for the companies needs with assistance being provided by the company. The plant must contain the following components.

*Shredder, Feeding Conveyer, Air Seal Box, Feeder Mechanism, Liquefaction Pot, Auxiliary Burner, Dilution Blower, Air Vent Damper, Cooling Conveyer, Transfer Conveyer, Heat Exchanger, Hot Gas Generator, Duel Fuel Burner, Air Heater, Condenser, Reserve Tank, Hot Gas Circulator, Exhaust Blower, Membrane Bag Filter, Caustic Soda Dosage, Equipment, N2 Gas Generator, Compressor, Cooling Tower, Control Panel, Recovery Oil Tank.*

The following criteria must be met to achieve a successful project:

- Ability to meet the above criteria
- Ability to deliver a turnkey project in Poland.
- Ability to show that previous project of such an innovative nature have been successful delivered

## 5. REQUEST FOR PROPOSAL AND PROJECT TIMELINE

### **Request for Proposal Timeline:**

All proposals in response to this RFP are due no later than 5pm CET April 19th, 2013

Evaluation of proposals will be conducted for a period of 1 week thereafter and the contract will be awarded. If additional information or discussions are needed with any bidders during this two week window, the bidder(s) will be notified.

The selection decision for the winning bidder will be made no later than April 26th 2013

Upon notification, the contract negotiation with the winning bidder will begin immediately. Contract negotiations will be completed no later than May 3<sup>rd</sup> 2013

Notifications to bidders who were not selected will be completed by no later than May 3<sup>rd</sup> 2013

### **Project Timeline:**

The project must be commissioned by December 2013.

The initiation phase or delivery of the first parts of the plant must be completed by July 2013 to facilitate the construction works.

## 6. BUDGET

All proposals must include proposed costs to complete the tasks described in the project scope. Costs should be stated as fixed price lump sum basis. Pricing should be listed for each of the following items in accordance with the format below:

|                                       |      |
|---------------------------------------|------|
| Turnkey Design, Installation of Plant | Cost |
| On Going Training                     | Cost |

NOTE: All costs and fees must be clearly described in each proposal.

## 7. PROPOSAL EVALUATION CRITERIA

The Company will evaluate all proposals based on the following criteria. To ensure consideration for this Request for Proposal, your proposal should be complete and include all of the following criteria:

- Overall proposal suitability: proposed solution(s) must meet the scope and needs included herein and be presented in a clear and organized manner
- Organizational Experience: Bidders will be evaluated on their experience as it pertains to the scope of this project

- Previous work: Bidders will be evaluated on examples of their work pertaining to as well as client testimonials and references (please attach the reference list of projects implemented)
- Value and cost: Bidders will be evaluated on the cost of their solution(s) based on the work to be performed in accordance with the scope of this project

Each bidder must submit 1 copies of their proposal to the address below by April 19, 2013 at 5pm CET or electronically to:

Environmental Solutions Poland Sp Zoo  
Ul Traktorowa 196  
91-218, Lodz  
Poland  
[office@environmentalsolutions-poland.pl](mailto:office@environmentalsolutions-poland.pl)