



Request For Proposal for Supply of Low Grade Plastics

We are trying to identify a long term supply of low grade waste plastics for a plastics-to-fuel conversion project. The company is wanting to locate a production facility close to the supply of the material.

The company is seeking a supply of 30 tons per day of low grade plastics. Below is a detailed discussion of the specifics. If you are interested in submitting a proposal please see the RFP Application Link at the bottom.

1. Types of plastic material:

The best materials for the client’s process are polyethylene, polypropylene and polystyrene. Due to the unique attributes of the process, the client is able to utilize waste plastic streams which are (somewhat) dirty and which typically pose a challenge to recycle domestically.

The calorific value of raw material must be above 7000KCal/Kg.

The following are some examples of waste plastic streams that the client is willing to accept:

- Mixed or impure plastics : #2 HDPE, #4 LDPE, #5 PP, #6 PS
- Mixed #3 - #7 bales
- Agricultural plastics
- Low grade waste plastics from construction & demolition
- Clear or colored films from MRFs or industrial waste (metalized film is not acceptable)
- Waste plastics from auto disassembly
- Industrial plastics – films/ rigids

The material may be rigid or film and the client prefers to receive materials in baled form and dry state.

(More detailed specifications mentioned in Point number 8)

2. Contamination:

Ideally, the bale contamination should be restricted to a minimum, preferably less than 10% - though higher contamination may be acceptable on a case to case basis.

- For the purpose of client’s process, anything which is not a polymer #2, #4, #5, #6 resin shall be considered as contamination.
- Moisture levels – dry preferred, the less moisture the better.

3. Duration of supply:

Seeking long term contract for material

4. Quantity of materials:

We are seeking 30 TPD of material from 1-5 sources and prefers each supplier to provide a minimum of 10 TPD.





Kalamkars Energy Pvt Ltd

Also, if your organization has interest and logistical capabilities to aggregate and supply 30-90 TPD of contractually secure waste plastic material from within a geography of 250-500 miles of where you are located, please let us know.

5. Supply price

Please provide a \$/ton quote (without transportation charges) related to the supply of waste plastics. If you're submitting an RFP for supply of multiple different kinds of waste plastics, please provide a separate \$/ton quotation against each waste plastic stream.

6. Materials not acceptable:

Here's a list of plastic materials that the client does NOT seek:

- #1 PET
- #3 PVC or any halogenated resin, chlorinated polyethylene, chlorobutyl.
- Any polyesters
- Any thermoset or cross-linked polymers
- Any fluoropolymers, teflon or fluoroelastomers
- Nitrile Rubber, nylon, hydrogenated nitrile rubber
- Any hazmat material.

Small traces of any or all of these in the overall blend are not harmful to the client's process. (More detailed specifications mentioned in Point number 8)

7. Engagement framework:

Based on an initial characterization of available materials and mutually acceptable techno-commercial terms, the client and interested supplier may execute a non-binding Letter of Intent (L.O.I.) to supply. Such L.O.I. shall form the basis for a formalized feedstock supply/procurement contract at a later date.

Kalamkars Energy Pvt Ltd

8. Detailed Specification are mentioned below

No need for segregation and cleaning with Tolerance of 5% dust + 5% moisture.

Description	Example	Guideline
HDPE (High-density polyethylene), PE (polyethylene)	Plastic Bags, Milk Jugs, Detergent Bottles, Cosmetic Bottles, Watering cans, Corrosion protection for steel pipelines, Folding chairs, Folding tables, Heat resistant fireworks display mortars, Hula hoops, Meter & Valve Boxes, Natural gas distribution pipe systems, Plastic bags, Plastic lumber, Plastic surgery applications (skeletal and facial reconstruction), Portable basketball system bases	Recommended
LDPE (Low Density Polyethylene) , LLDPE (Linear Low Density Polyethylene)	Bags for Dry Cleaning and Produce, Stretch Wrap, Wire Coverings	Recommended
PP (Polypropylene)	Bottle Caps, Appliances, Automotive Parts, Computer Parts	Recommended
PS (Polystyrene)	Cutlery, Cups, CD Cases, Packing Peanuts, Food Containers, Styrofoam	Recommended
PET (Polyethylene terephthalate)	Plastic Bottles for Soda and Water, Microwave Food Trays, Some of Textiles	Less than 5% uniformly mixed with rest of the raw material.
PVC (Polyvinyl chloride)	Shrink Wrap, Pipe, Siding, Blister Packs, Laminate Flooring	Less than 0.5% uniformly mixed with rest of the raw material.
Agricultural Waste	Any Agricultural Waste	Not Recommended
Road Waste	Any Road Waste	Tolerance: 5% of dust + 5% moisture

Note:

1. It is recommended that the calorific value of raw material must be above 7000KCal/Kg.
2. Raw material should have polymer content of more than 80% by weight
3. There should not be any abrasive non-plastic or metal particles of size more than 10mm.
4. In case plastic waste contains metal impurities, magnetic separation and destining is recommended.
5. Steel wires must be removed from tires before processing.
6. Particle size: Less than 25mm, density more than 0.2MT/KL