

## TECHNOLOGY APPLICATION

In an effort to effectively assess your application we need a better understanding of the business environment, plans and objectives and therefore would appreciate if you can reply to the follow questions.

### Section 1

#### **Question 1: Business Background**

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What is the primary business of your company? What is the length of time trading? Does your company, or yourself personally, have any experience in the environmental industry such as waste management or recycling?

#### **Question 2: Priorities & Objectives**

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Please list the following points in order of your overall priorities/objectives for setting up a tyre recycling operation (1 = most important; 5 = least important). If "other", please elaborate:

- Getting rid of your current waste tyre problem (for regulatory purposes)
- Environmental: earning "green" points or carbon credits
- Creating employment for the region
- Making a commercial profit for fast return on investment (ROI)
- Making products recovered from tyres for use in your own business

#### **Question 3: Region for Licence**

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Molectra defines a region as a geographical area that produces enough waste tyres to fully supply a complete Molectra recycling plant (approx. 1-3 million tyres per year). Please provide information on the location of the region that you are interested in having a Molectra plant established. This would usually be a major city, a province/state, or even a whole country with a relatively small population (less than 5 million).

#### **Question 4: Capital Investment**

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Does your company have sufficient funds available to invest in a large project like this, or would you need to raise further funds from external sources (eg: government grants, third part investor, loan from financial institution, etc)?

### Section 2

#### **Question 1: Tyres in Region**

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In the region that you have nominated, we firstly need to establish the volume of waste tyres that are readily available for recycling. How many waste tyres are discarded by tyre retail outlets in your nominated region per year? What are the estimated sizes and types of these tyres (including the average % of each type)?

#### **Question 2: Stockpiles**

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In addition to the above, how many tyre dumps or stockpiles (if any) are within your nominated region? What is the estimated numbers of tyres in these dumps/stockpiles? What are the estimated sizes and types of these tyres (including the average % of each type)?

#### **Question 3: Preferred Source**

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What will be your primary source of waste tyres? (tyre retail outlets or dumps/stockpiles?) Have you established relationships with any of the suppliers of waste tyres or owners of tyre dumps/stockpiles?

#### **Question 4: Guaranteed Supply**

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What volume of tyres (units or weight) would you realistically be able to have guaranteed supply per year for your operation?

#### **Question 5: Hours of Operation**

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How many hours per day (eg: 8, 12, 24) and days per week (eg: 5, 6, 7) would you operation your plant?

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**Question 6: Special Requirements**

Any special requirements for the plant setup (eg: handling large tyres, contamination in waste source, etc)?

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**Question 7: Automation**

Labour versus automation – higher levels of automation in the plant design will have a higher capital cost. Would you prefer the design to have more manual operation to create jobs for local workers or would you prefer higher levels of automation (ie: fewer workers)?

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**Question 8: Markets**

Have you conducted any research into the available markets for both crumb rubber and the recycled rubber products in your nominated regions and surrounding areas? Please summarise what you know.

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**Question 9: Crumb Rubber to Rebonded Rubber**

What % of the crumb rubber produced would you want to put through the Rebonded Rubber process to produce Rebonded Rubber products? Molecetra normally recommends starting low in the first stage of operation and gradually increasing this with additional Rebonded Rubber Lines built in parallel in subsequent stages.

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**Question 10: Fine Crumb Rubber**

“Minus 30 mesh” (0.6mm and finer) is a standard size of crumb rubber for numerous applications in various industries, although there can be some markets for larger rubber granules (1-4mm). What % of rubber would you want to be produced into minus 30 mesh? (Note: minus 30 mesh is most commonly used in the Rebonded Rubber process.)

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**Question 11: Land & Factory**

All Molecetra licensed plants need to be located in industrial areas that are specifically zoned and licensed for waste recycling operations. Do you currently own or lease a block of land and/or an industrial factory suitable for a recycling operation? If not, have you identified any suitable sites? Do you have the funding to secure this site? Does it have good access to transport, freight, utilities and other services?

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**Question 12: Other Information**

Is there any other relevant information you can provide that would assist us with putting together a proposal for establishing a turnkey tyre recycling plant for you?