

ENVIRONMENTALLY FRIENDLY SOLUTIONS FUND II

(E-Friends II- Revolving Fund) Technical Related Information

(To be filled by Loan applicant)

1. Instructions for Completing Technical Related Information

- 1.1 General information is compulsory for each project and needed to be completed.
- 1.2 Complete other sections based on environment impact associated with your process/industry.
- 1.3 Attach relevant records if available (Wastewater, Noise level, Air Quality etc.)
- 1.4 Refer abbreviations attached end of this format when necessary.

2. General Information

- 2.1 Organization:.....
- 2.2 Activity:
- 2.3 Production Capacity:.....
- 2.4 No of Workers:
- 2.5 Environment Protection License (EPL) available: Yes/No/Applied/Pending
(If yes attach a copy)
- 2.6 Category of EPL: A/B/C
- 2.7 Environment Impact associated with the process :(waste water generation, Air emission, solid waste, Noise, vibration, heat, etc.):

3. Project Description

3.1 Wastewater/Liquid waste Projects

- 3.1.1 Project Name:.....
- 3.1.2 Wastewater Quantity per daym³.....m³ year
- 3.1.3 Wastewater test records (If records available)

| Parameter | Unit | Value | Remarks |
|------------------|------|-------|---------|
| pH | | | |
| TDS | | | |
| BOD | | | |
| COD | | | |
| Cr | | | |
| Cd | | | |
| Hg | | | |
| Other metals.... | | | |

- 3.1.4 Existing Wastewater treatment method:.....

- 3.1.5 Proposed treatment method:.....
- 3.1.6 Other Liquid Wastes:
- 3.1.7 Quantity per daym³m³ year
- 3.1.8 Existing treatment method:.....

3.2 Noise Projects

- 3.2.1 Project Name:.....
- 3.2.2 Existing Noise Level:.....dB(Pls attach if records available)
- 3.2.3 Causes for Noise Generation:.....

3.3 Solid waste Projects

- 3.3.1 Project Name:

| Solid waste type | Unit | Quantity-per month | Current Treatment (See note*) | Remarks |
|--------------------------|------|--------------------|-------------------------------|---------|
| Biodegradable | | | | |
| Food waste | | | | |
| Paper | | | | |
| Cardboard | | | | |
| Other | | | | |
| | | | | |
| Non-Biodegradable | | | | |
| Plastic | | | | |
| Polythene | | | | |
| | | | | |
| | | | | |
| sludge | | | | |

Note – Open dumping, open burning composting, Re use, send for recycling, etc.

- 3.3.2 Proposed treatment method:.....

3.4 Air Emission Projects

- 3.4.1 Project Name:.....
- 3.4.2 Emission type: Stack emission/process emission/...../.....
- 3.4.3 Existing air treatment method:.....
- 3.4.4 Air Emission test records (If records available)

| Parameter | Unit | Value | Remarks |
|--------------------------|------|-------|---------|
| O ₂ | | | |
| CO ₂ | | | |
| NO _x | | | |
| SO _x | | | |
| VOC | | | |
| Temperature | | | |
| Particulate matter(dust) | | | |

3.4.5 Proposed treatment method:.....

3.5 Heat Projects

3.5.1 Project Name:.....

3.5.2 Heat Temperature:.....°C

3.5.3 Existing treatment method:.....

3.5.4 Test records (If records available)

| Parameter | Unit | Value | Remarks |
|-----------|------|-------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

3.5.5 Proposed treatment method:.....

3.6 Resource Recovery Projects

3.6.1 Project Name:

3.6.2 Resources used:.....

3.6.3 Quantity per year: (liters/m³/kg...).....

3.6.4 Savings:

3.7 Energy Projects

3.7.1 Project Name:.....

3.7.2 Current energy consumption: (Based on most recent year)

| Type | Unit | Monthly consumption | Annual consumption | Expected Reduction | Remarks |
|-------------|--------|---------------------|--------------------|--------------------|---------|
| Electricity | Kwh | | | | |
| | kVA | | | | |
| Diesel | Liters | | | | |
| Furnace oil | Liters | | | | |
| Solid fuel | kg | | | | |
| | | | | | |
| | | | | | |

Estimated Annual Energy Cost for Energy Conservation Measures:.....

Estimated Percentage Cost for Energy Conservation Measures :.....

Over-all Simple Payback (years) :.....

4. Abbreviations

EPL – Environment Protection License

TDS – Total Dissolved Solid

BOD – Biological Oxygen Demand

COD – Chemical Oxygen Demand

Cr - Chromium

Cd – Cadmium

Hg – Mercury

O₂ - Oxygen

CO₂ – Carbon Dioxide

NO_x – Noxes– (NO₂- Nitrogen Dioxide, NO- Nitrogen Oxide, etc.)

SO₂ –Sulphur Dioxide,

VOC – Volatile Organic Carbon