To be printed on MSME Unit’s letter head

Expression of Interest

Date: —/—/——

To,

General manager (T)

Energy Efficiency Services Limited,

Core 3, 5th & 6th Floor, Scope Complex

Lodhi Road, New Delhi-110003

Sub: Willingness to participate in implementation of <Technology name (s)> under the replication mode of MSME-UNIDO-EESL Project: “Promoting Market Transformation for Energy Efficiency in Micro, Small and Medium Enterprises”

Sir,

This is with reference to my discussion with EESL regarding the project named “Promoting Market Transformation for Energy Efficiency in Micro, Small & Medium Enterprises (MSME) under GEF - 5 Program in India”.

EESL have explained me regarding the technology, business model, case studies (demo phase) and Standard Package of Offer. I hereby express my willingness to participate in the project by implementation of <Technology Name(s)> in my MSME unit during the replication phase of the project. I would provide all the available information and necessary support which would be required for successful implementation of the technology at my MSME unit.

In this regard, as an authorised signatory of this MSME unit, I have no objection to allow the officials of EESL or their authorized representative to enter into my unit at any time for undertaking the said study and implementation.

I have also, no objection in entering into a detailed agreement with EESL in this regard, if desired.

Please consider my MSME unit to participate in the aforesaid scheme. The technologies list is enclosed in the Annexure I. The details of Msme unit are enclosed at Annexure II.

With regards,

(Name)

Designation

***Annexure 1***

**List of Technologies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table A: List of technologies (Cluster Specific)** | | | | | | |
| **Sl. No.** | **Technologies** | **% Energy Saving** | **Pay-back** | **High Interest** | **Moderate Interest** | **Least Interest** |
|
| **Cluster Specific Technologies** | | | | | | |
| **Textile Cluster** | | | | | | |
| **1** | Replacement of reciprocating compressor with screw compressor | 20-25% | 1.5-2 |  |  |  |
| **2** | Installation of 100% flash steam and condensate recovery system | 20-25% | 1.5-2 |  |  |  |
| **3** | Installation of PLC based automation & control system for Jet Dyeing Machine | 15%-20% | 1.5-2 |  |  |  |
| **4** | Installation Of Automation And Control System In Boiler | 15%-20% | 1.5-2 |  |  |  |
| **5** | Installation Of Micro-Turbine For Power Generation | 15%-20% | 1.5- 2 |  |  |  |
| **6** | Installation Of Combustion Control System | 10-15% | 1-1.5 |  |  |  |
| **7** | Low grade waste heat recovery | 10-15% | 2-2.5 |  |  |  |
| **8** | Automation of dyeing machine | 10-15% | 1.5-2 |  |  |  |
| **Chemical, API & Dyes** | | | | | | |
| **9** | Replacement of reciprocating chiller with EE scroll chillers | 20-25% | 1.5- 2 |  |  |  |
| **10** | Installation of vertical agitator system in reaction vessel | 10-15% | 1.5-2 |  |  |  |
| **11** | Installation of IBR Boiler system | 15-20% | 1-2 |  |  |  |
| **12** | Agitated Nutsche filter dryer(ANFD) | 10-15% | 1-2 |  |  |  |
| **13** | Fitch fuel Catalyst | 5-10% | 1-2 |  |  |  |
| **Mixed Cluster (Foundry, Forging, Re-rolling, Wire Drawing)** | | | | | | |
| **14** | Installation of high efficiency metallic Recuperator | 20-25% | 1-1.5 |  |  |  |
| **15** | Automation and control system in steel reheating furnace | 10-15% | 1-1.5 |  |  |  |
| **16** | Energy Efficient divided blast cupola | 20-25% | 1-1.5 |  |  |  |
| **17** | Swirl burner for pulverised coal based steel reheating furnace | 5-10% | 1-1.5 |  |  |  |
| **Forging & Foundry** | | | | | | |
| **18** | Replacement Of Conventional Lathe Machines With Special Purpose Machines | 10-15% | 2.5-3 |  |  |  |
| **19** | Installation of induction billet heater | 20-25% | 1-1.5 |  |  |  |
| **20** | EE Servo drive in power press | 10-15% | 2-2.5 |  |  |  |
| **Tea Cluster** | | | | | | |
| **21** | Installation of automation & control system of withering process | 5-10% | 2.05 |  |  |  |
| **22** | Replacement Of Steel / Aluminium Blade With FRP Blades In Withering Fan | 15 -20% | 2.22 |  |  |  |
| **23** | Installation Of Energy Efficient Modulating Burner With Temperature Based Control System In Natural Gas Fired Dryer | 5 -10% | 1.68 |  |  |  |
| **24** | Automation and control system in tea dryer | 5%-10% | 1.5-2 |  |  |  |
| **Paper Mfg. Cluster** | | | | | | |
| **25** | Installation Of Energy Efficient Vacuum pump instead of old vacuum pump | 15%-25% | 1.5-2 |  |  |  |
| **26** | Installation of direct coupled agitator system with VFD | 15-20% | 1-1.5 |  |  |  |
| **Rice Mill Cluster** | | | | | | |
| **27** | LSU/port dryers for rice manufacturing units | 20-25% | 2-2.5 |  |  |  |
| **28** | Replacing Existing Non-IBR Boiler With IBR Pressure Boiler | 25-30% | 2-2.5 |  |  |  |
| **Pharma Cluster** | | | | | | |
| **29** | Chiller Condenser On-Load Automatic Tube Cleaning System | 15-20% | 1-2.5 |  |  |  |
| **30** | Replacement of Steam Vacuum Pump with Electric Vacuum Pump | 15-20% | 1-2.5 |  |  |  |
| **31** | Installation of Side Stream Filtration for Cooling Tower | 15-20% | 1-2.5 |  |  |  |
| **32** | Installation of Mist Cooling Towers in place of Natural/Draft Cooling Tower | 15-20% | 1-2.5 |  |  |  |
| **Aurangabad (Mixed- Rubber, Forging & Metal)** | | | | | | |
| **33** | Replacing Mixers and Hot Feed Rubber Extruder with Cold Feed Extruder | 40% | 1-1.5 |  |  |  |
| **34** | Replacing Transformer based Welding Machine with Inverter (IGBT) based Welding Machine | 35% | 1-2 |  |  |  |
| **35** | Replacing old Technology Tyre Re-treading Line with Energy Efficient Tyre Re-treading Line | 35% | 1-2 |  |  |  |
| **36** | Replacing Single Spindle Drilling Machine with Semi/ Fully Automatic Multi Spindle Drilling Machine | 40% | 1-1.5 |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Technologies** | **% Saving** | **Simple Pay back** | **High Interest** | **Moderate Interest** | **Least Interest** |
| **(years)** |
| **Cross Cluster Technologies** | | | | | | |
| 1 | 1-75 kW Energy Efficient (IE-3) Motors | 5-15% | 1.5 – 2 years |  |  |  |
| **2** | Super-Efficient Air Conditioners (SEACs) | 5.4 ISEER, 20% more efficient than BEE 5 star rated and 50% more efficient than BEE 3-star rated air conditioners | 3-4 years |  |  |  |
| **3** | LED Lighting Fixtures (Industrial) | 80-90% efficient than Incandescent Lights | 0.5-1 years |  |  |  |
| **4** | 32-35 watt BLDC fan 1200 mm sweep | >40 % | 1-1.5 years |  |  |  |

***Annexure II***

**Details of MSME unit**

|  |  |  |
| --- | --- | --- |
| **Parameters** | **Unit** | **Details** |
| Name of Unit | Name |  |
| Address of unit | Address |  |
| Contact details | Phone/email id |  |
| Udhyog Aadhar Registration No./UAM |  |  |
| Year of Establishment | Year |  |
| Registered under MSMED Act | Yes/No |  |
| UAM Number/MSME Reg. no |  |  |
| Type of MSME | Micro/Small/Medium scale |  |
| Average Monthly Electricity Bill | Rs/Month |  |
| Average Monthly fuel consumption  (Coal + Diesel + Gas + others) | Rs/Month |  |
| Annual audited turnover (2017-18 or 2016-17) | Rs in lakhs |  |
| Sector | Name of sector |  |
| Sub sector | Name of sub sector |  |