

PROJECT PROFILE – SUMMARY SHEET

Project Introduction

1. Project Title: Light Emitting Diode (LED)

2. Sector: Industry

Sub sector: Electrical and electronic machinery and equipment

3. Products/Services: Used in the lighting and non-lighting industries

4. Location: Sanandaj -Kurdistan

Free zone ☐

Economic special zone ☐

Industrial Estate ☒

Main Land ☐

5. Project description:

The diode is a two-head electronic piece which passes the electric current in one direction while shows a very high resistance against the current in the other direction. In the light emitting diodes, the current intensity is roughly proportional to the intensity of light emitted to its surface. In fact, this type of diode is a typical P-N bond located inside a plastic cover with a transparent side. The term LED stands for light emitting diode. Light emitting diodes are considered as a subgroup of semiconductors in the diode's family. The property that distinguishes LEDs from other semiconductors is that some energy is emitted as light while the current passing through LEDs. Figure 5 shows LED or light emission diodes with red, yellow, green and blue colors. They are used for lighting and non-lighting purposes. The lighting applications of LED lights include: Interior lighting (ceiling, home decoration, kitchen cabinets, etc.), Exterior lighting (streets, parking lots, parks, etc.), Interior lighting (shops, shop windows, museums, etc.) and Exterior lighting (building frontage, water views, bridges, monuments, parks, etc.). Non-lighting industries: billboards, displays, automotive, traffic lights, telecommunications (optical fibers), photodetectors, aircraft, marine lanterns, solar cells, medical equipment, mobile phones, cameras, printers, PCs and laptops and electronic devices used in various equipment. The LED production plan is used in lighting and non-lighting industries considering the domestic target market and the Iraqi market. The construction site of this project is Sanandaj, the capital of Kurdistan province. The raw materials for the production of this product are domestic. The break-even point is 63.25% and the investment return period is 5.92 years. Considering the positive outlook of the project in terms of domestic consumption as well as export, and according to the results obtained in the financial and economic review of the project, the project is economical.

And also due to the amount of ROI for this product and lower Return on Investment Period, it has good justification and it is good option for investment. Also, there are many investment incentives for investors. For example, "Preparation of land for the implementation of industrial plans and completed plans following technical and engineering principles and modern settlement methods", "Availability of infrastructure facilities in industrial areas", "Allotment of industrial land with suitable conditions", "Remission of 40 to 45 percent of the land price in industrial towns, especially for units that are put into operation faster than the schedule and have continuous production".

6. Annual capacity: 28,500,000 Units

Project Status

7. Local / internal raw material access 100 %

8. Sale:

- Anticipated export market 0 %

9. Construction Period: 1 year, 6 months

10. Project Status:

- | | | |
|---|---|--|
| - Feasibility study available? | Yes ☒ | No ☐ |
| - Required land provided? | Yes ☒ | No ☐ |
| - Legal permissions (establishment license, foreign currency quota, environment, etc) taken? | Yes ☒ | No ☐ |
| - Partnership agreement concluded with local/foreign investor? | Yes ☐ | No ☒ |
| - Financing agreement concluded? | Yes ☐ | No ☒ |
| - Agreement with local / foreign contractor(s) concluded? | Yes ☐ | No ☒ |
| - Infrastructural utilities (electricity, water supply, telecommunication, fuel, road, etc) procured? | Yes ☒ | No ☐ |
| - List of know-how, machinery, equipment, as well as seller / builder companies defined? | Yes ☒ | No ☐ |
| - Purchase agreement for machinery, equipments and know- how concluded? | Yes ☐ | No ☒ |

Financial Structure

11. Financial Table

Description	Local Currency Required			Foreign Currency Required Euro	Total Euro
	Million Rials	Rate Rial	Equivalent in Euro		
Fix Capital	556,941	378000	1,473,388	0	1,473,388
Working Capital	1,095,262	378000	2,897,518	300,000	3,197,518
Total Investment	1,652,203	378000	4,370,907	300,000	4,670,907

- | | | |
|--|------------|-----------------|
| - Value of foreign equipment/machinery | 300,000 | euro |
| - Value of local equipment/machinery | 0 | euro |
| - Value of foreign technical know- how | 0 | euro |
| - Value of local technical know- how | 0 | euro |
| - Net Present Value (NPV): | 14,567,003 | euro for 5 Year |
| - Return on Investment (ROI) | 14% | |
| - Payback Period (PP) | 5.92 Year | |

General Information

12. Project Type : Establishment ☒ Expansion and completion ☐

13. Company Profile:

-Name (legal /natural persons) :

-Company Name :

-Address :

-Tel: Fax:

-E-mail: Web site:

-Local entrepreneur : private sector ☐ public sector ☐ other ☐

Please attach follow documents if available

- Pre-feasibility study ☒
- Feasibility study ☒
- Legal permissions (establishment license, foreign currency quota, environment, etc) ☐

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