

PROJECT PROFILE – SUMMARY SHEET

Project Introduction

1. Project Title: Solar Cell and Module Production

2. Sector: Industry

Sub sector: Electrical and electronic machinery and equipment

3. Products/Services: Household and non-household uses, remote areas and industrial uses

4. Location: Sanandaj-Kurdistan

Free zone ☐

Economic special zone ☐

Industrial Estate ☒

Main Land ☐

5. Project description:

Solar cell or photovoltaic cell (PV Cell) is comprised of a semiconductor with an electric connection. The part absorbs solar energy and converts it to electric energy. Light rays which are absorbed by solar cell release covalent bonds (atomic bonds of semiconductors) and then create negative free electrons and positive free cavities and the resulted electric power is given to charge. Under appropriate circumstance, a 10*10cm solar cell exposed to direct sun shine could produce 1.5 volt electricity. A module is formed by binding several solar cells and by binding several modules an array is made.

The main material required for the production of solar cells is crystalline silicon wafer, which must be provided from a limited number of foreign companies. This issue regarding the raw materials of this project is considered as a major limitation because the aforementioned wafers can be purchased from companies in European countries, Japan, Singapore and China.

The solar cell and module production plan is used in domestic and non-domestic uses, remote areas and industrial uses, taking into account the domestic target market and the countries of the Middle East region. The place of implementation of this plan is Sanandaj city, the capital of Kurdistan province. Break-even point is 47.03% and the investment return period is 2.83 years.

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: 10,000,000 Volts

Project Status

7. Local / internal raw material access 10 %

8. Sale:

- Anticipated export market 1 %

9. Construction Period: 1 years, 2 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
	Milion Rials	Rate Rial	Equivalent in Euro		
Fix Capital	315,501	380,000	830,266	0	830,266
Working Capital	241,977	380,000	636,781	0	636,781
Total Investment	557,479	380,000	1,467,050	0	1,467,050

- Value of foreign equipment/machinery 0 euro
- Value of local equipment/machinery 315,789 euro
- Value of foreign technical know-how 0 euro
- Value of local technical know-how 0 euro
- Net Present Value (NPV): 6,067,526 euro for 5 Year
- Return on Investment (ROI) 31%
- Payback Period (PP) 2.83 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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