

PROJECT PROFILE – SUMMARY SHEET		
1- Project title: Production of Rhenium Metal		
2- Progress status : In producing: <input type="checkbox"/> Less than nominal capacity <input type="checkbox"/> Full capacity project: Incomplete ■ New <input type="checkbox"/> Expansion <input type="checkbox"/> Inactive after operate <input type="checkbox"/> In use other than the purpose of the project		
3- Sector: Manufacture of chemical substances and products(24) Sub Sector: Manufacture of nitrogen fertilizer and compounds (12)		
4- Products: Production of Rhenium Metal		
5- Location: <input type="checkbox"/> Main land <input type="checkbox"/> Free zone <input type="checkbox"/> Economic special zone ■ Industrial Estate Country: Iran Province: East Azarbaijn County: Varzaqan, Ahar		
6- Building & Equipment Specifications:		
Land area: 5,000 m ²	Administration Building: 500 m ²	
Production hall: 2,000 m ²	Other building: 1,000 m ²	
Facilities: 500 m ²		
7- Accessibility & Infrastructure:		
Available electricity:	Distance to high voltage:	Phone:
Internet Infrastructure:	Available Water:	Number of wells:
Water capacity:	Drinking water:	Gas available:
Distance to gas supply:	Distance to highway/main road:	Distance to nearest city:
Distance to provincial capital:	Distance to the nearest customs:	Distance to the nearest Airport:
Distance to the nearest railway station:	Distance to the nearest port:	Distance to Borders:
8- Explanation of Production Process: Firstly, the molybdenum sulfide resulted from copper ore roasting process, is converted to molybdenum oxide through concentration. Rhenium salts, as a by-product of these oxides, can be achieved by separation of ions, and finally the crystallization process, in the mixer settler extraction towers, or by other methods of concentration and extraction. Finally, by reducing the salt in the presence of hydrogen in the CVD reactor, rhenium metal is obtained.		
9- Capacity: Nominal capacity: 1,333,300 kg of Molybdenum Oxide and 373 kg of Rhenium Metal per year Actual capacity: 1,066,600 kg of Molybdenum Oxide and 299 kg of Rhenium Metal per year		
10- Internal Raw Material Access: 100%		
11- Sale: Anticipated export market: 90% Anticipated internal market: 10%		

12- Construction Period: 36 months

13- Special points:

<input checked="" type="checkbox"/> land prepared	<input checked="" type="checkbox"/> Relevant legal permission	<input type="checkbox"/> Environmental license
<input type="checkbox"/> Partnership agreement concluded with local/foreign investor		<input type="checkbox"/> Ability to obtain banking loan
<input type="checkbox"/> Machinery and equipment are available		<input type="checkbox"/> Product / service sales contract
<input type="checkbox"/> Purchase agreement for machinery, equipment and know- how concluded		
<input type="checkbox"/> Infrastructural utilities (electricity, water supply, telecommunication, fuel, road, etc.) procured		
Others advantages (Technology, innovation, rank of industry, market specific privilege, intellectual property, etc.):		

14- Feasibility study Status:

☐ Updated Feasibility study ☒ Pre-Feasibility study ☐ No Feasibility study

15- Value of equipment/machinery & technical know-how:

Value of foreign equipment/machinery: 1 million Euro Value of local equipment/machinery: -
Value of foreign technical know-how: 0.5 million Euro Value of local technical know-how: -

16- Financial Table:

Description	Local Currency Required			Foreign Currency Required in Million Euro	Total in Million Euro
	Million Rials	Exchange Rate	Equivalent in Million Euro		
Fixed Capital	-	-	2	-	2
Working Capital	-	-	1.5	-	1.5
Total Investment	-	-	3.5	-	3.5

- Net Present Value (NPV): 0.54 Million Euro for 10 years
- Internal Rate of Return (IRR): 35.4%
- Payback Period (PP): 3.16 years from start of construction

17- Employee:

employee	available	required	total
person	-	120	120

18- Company Profile:

Name (legal entity /human legal entity): Industry, mine and Trade organization of East Azarbaijan

Name of Contact Person/ CEO: Mr. Arash Negahbani

Current activity: -

Activity history: -

Legal structure of the company: ☐Private ☐government ☐Public

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Web site: aze.mimt.gov.ir Email: arash.neghahbani@yahoo.com P.O. Box:

Office Address: Industry, mine and Trade organization, Sheshgalan, Tabriz, East Azarbaijan province, Iran

Please attach the following documents if available:

- ☐ *Feasibility study*
- ☐ *Legal permissions and ownership documents*
- ☐ *Company Contracts*
- ☐ *Aerial photos, local access, surrounding urban context*
- ☐ *Location in the city, Split map, Municipality district*
- ☐ *Brochure and catalogue of project*