

PROJECT PROFILE – SUMMARY SHEET

Project Introduction

1. Project title: Agricultural and aquaculture tools production

2. Sector: Manufacture of machinery and equipment n.e.c.
Sub sector: Agricultural and aquaculture equipment manufacturing

3. Products/Services: Cereal harvesting tool, Rice transplanter, Rice harvesting tools, Drum filter, Blower

4. Location: Free zone Economic special zone Industrial Estate Main Land

5. Project description:

Based on the fact that in Iran the agricultural lands are small and farmers work in island form, using the machineries and tools of cultivation, maintenance and harvesting are less concentrated. Therefore, based on the present situation in lads, there is a small part which is mechanized. Thus, until the mechanization necessities like farmers working in island form don't be finish, the traditional activities are not limited and lands are irrigated in traditional procedure, this would not be possible for farmers to take action using machineries and novel technologies in economic term. Based on the fact that major part of employment and economic activities of Iran are allocated to agriculture, production and development of agricultural tools can be effective in development of economic section and employment.

6. Annual capacity: 1700 cereal harvesting tools, 700 rice transplanters, 254 rice harvesting tools, 1000 blowers and 400 drum filters

7. Local / internal raw material access: 100 %

Project Status

8. Sale:

Anticipated internal market: 90%

Anticipated export market: 10%

9. Construction Period: 24 months

Schedule

Beginning of activity: 3/2018

In-site beginning of activity: 3/2018

End of project: 2/2020

Commercial activity beginning: 3/2021

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 technology concluded? Yes No

**Financial structure****11. Finance**

Description	Local Currency Required			Foreign Currency Required Million Dollar	Total Million Dollar
	Million Rials	Rate	Equivalent in Million Dollar		
Fix Capital	72966	37019	1.97	0	1.97
Working Capital	29340	Rials for each Dollar	0.79	0	0.79
Total Investment	102306		2.76	0	2.76

- Value of foreign equipment/machinery: 0 million dollar
- Value of local equipment/machinery: 12844 million dollars
- Value of foreign technology: million dollar
- Value of local technology: million dollar
- Net Present Value (NPV): 89566.548 Million Rials for 10 Year
- Internal Rate of Return (IRR) 39.8%
- Payback Period (PP) 36.66%

General Information

12. Project Type : Establishment Expansion and completion

13. Company Profile:

- Name (legal /natural persons) : consultant engineers group (Kamel Sanat Sam)
- Company Name : engineering consultation
- Address : floor 3, Milad Noor complex, before 30m, Vali Asr Blvd ., Khoram Abad, Lorestan
- Tel: 06632203616 Fax: 06633203615

-E-mail: Info@Scicogoup.com Web site: www.Scicogroup.com

- Sector: 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)

**Ministry of Economic Affairs and Finance
Organization for Investment Economic and Technical Assistance of Iran
(OIETAI)**

Foreign Investment Center of Lorestan Province

Tel (Tehran): (021) 33967749-33967766-33967762-39902485-39902488-39902486

Tel (Khoramabad): (066) 33229577

Fax: 33967774

Website: www.investiniran.ir

eco_isc@yahoo.com

Plan summary

1. Product or services introduction

The goal of this plan

The main goal of this plan is to construct a factory of producing agricultural and pisciculture equipment. The particular goals of mechanization in agriculture include:

1. Reduction of production cost
2. Performance enhancement
3. Wastes reduction
4. Working difficulty minimization
5. Crops quality enhancement

1-2- The features and advantages of plan

One of the mechanization goals in agriculture and fishery section is increasing the production and profit. Increasing the production is possible as the cultivated lands and production in area unit are increased and mechanization seeks both goals, i.e. on one hand, as the number and capacity of machineries as well as lands revival increases, the cultivated lands would increase and as the machineries working quality increases and their accuracy enhances, based on the plant needs and improvement of other non-mechanical factors like geology, improvement of the irrigation quality, seed modification, operation optimization, therefor, the area unit production would increase. On the other hand, Mechanization could reduce the working forces and operation punctuality and reduced the costs and increased the income which plays an important role in efficiency and higher capacity if machines in achieving the goals.

Using mechanization and modern technology, it is possible to conduct the agricultural operation in time. Early fulfillment of the operation based on the weather conditions and particularly in maintenance and harvesting, would prevent from potential losses. Today, this issue is seriously followed in developed countries and there have been many researches conducted on this area to determine the best time to fulfill different operations. Afterward, using mechanized different technologies, they attempt to fulfill the operation in time to get best performance.

One of the other advantages of mechanization is to motivate the farmers to take agricultural actions which are along with reduction of working difficulty. In fact, reduction of the work difficulty not only leads to attraction of the working in agricultural area and increasing the investment in this sector, but also is effective on quality and the operation accuracy in addition to efficiency of works.

1-3- ISIC code

Scale	Product	Code	No.
U	Harvesting machines types	29211320	1
U	Harvesting machine	29211322	2
U	Rice cultivator	29211251	3
U	Vacuum air pump types	29121210	4
U	Vacuum pump	29121212	5
U	Harvesting machine types	2921412342	6
U	Rice cultivator	2921512315	7
U	Separator with drum vacuum filter	2919612584	8
U	Air pump (blower)	2912512319	9

1-4- Products' application

- Elimination of colloids and soluble particles in water (drum filter):

The fish pools wastewater is entered the first purification level, i.e. the mechanical filtering. This filter is drum filter.

In this filter, the particles with diameter of 80 μm are separated from water and are dropped into the drum and would be washed by the nozzles mounted on the drum and then they are carried into the separated pipes directed into the wastewater.

- Splash airing

The airing is a procedure of which the water soluble oxygen is saturated with air in balanced form. This process is accomplished using the mechanical devices.

- Cultivator:

The cultivators are machines or instruments by which the plants cultivation is accomplished in mechanical (automatic or semi-automatic) form. the high accuracy of these cultivators both in depth and in distance between rows as well as their transfer speed to the land leads to higher performance and reduction of the workers' costs.

- Cereals and rice harvesting device

This machine is consisted of an engine (gasoline, 1 cylinder, 4 modes and air cooling), power transfer system, cutting section, feeding and transferring section, wheels and accessories. The machine is designed with light weight; therefore, it is of higher maneuver in smaller farms.

Proposed places

The place of this plan is cities of Lorestan province.

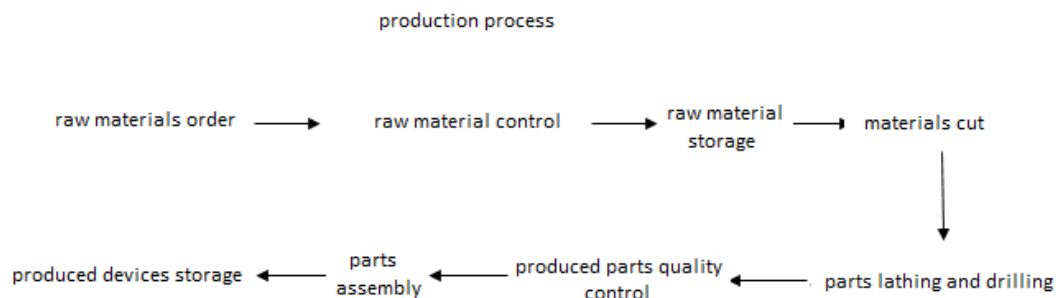
Raw, auxiliary and consuming materials

Annual costs (million rials)	Production level	Machine	No.
49652	1700	Cereals harvesting machine	۱
3372	700	Rice cultivator	۲
9293	254	Rice harvester	۳
8497	1000	Splash airing device	۴
3186	400	Drum filter	۵
74000	Total		

Nominal plan capacity

1700 cereals harvesting tool, 700 rice transplanter, 254 rice harvesting tool, 1000 blower and 400 drum filter

Production procedure and technology used



The plan investment costs

%	Total (million rials)	Description
8.8	9000	Land
37.8	38662	Building
12.6	12844	Machineries
6.3	6430	Installations
0.8	860	Vehicles
0.1	111	Service and administrative equipment
0.7	679	Unexpected and miscellaneous, 1%
67	68586	Total fixed assets
4.3	4380	Pre-exploitation costs
71.3	72966	Total fixed plan investment costs
28.7	29340	Working capital
100	102306	Total plan investment

Working capital

Amount (million rials)	Description	Title
24667	Four months for raw materials	Raw materials
2137	2 months' salary	Salary
683	Three months of energy and repair costs	Revolving funds
1853	6% of above items	Credits unpredicted
29340	Total	

Fixed costs and annual production variable

Variable and fixed costs	Variable costs (million rials)	Variable costs %	Fixed cost (million rials)	Fixed costs %	Production costs	No.
74000	74000	100	0	0	Consumed and raw materials	1
12823	3846.83	30	8975.93	70	Salary and wage	2
645.24	516.2	80	129.04	20	Energy costs	3
146	0	0	146	100	Insurance (0.002 of fixed investment)	4
2086	1668.8	80	417.2	20	Repair and maintenance	5
2787	2229.6	80	557.4	20	Ads and marketing	6
4099	0	0	4099	100	Depreciation	7

5382	4305.6	80	1076.4	20	Miscellaneous and unpredicted (6%)	8
101964.24	Total					

Economic indices

139350 million Rials	Income of each period	Economic indices
85566.548 million Rials	NPV	
39.8%	IRP	
5.27 years	PBP	

Management and Planning Organization of Lorestan Province