



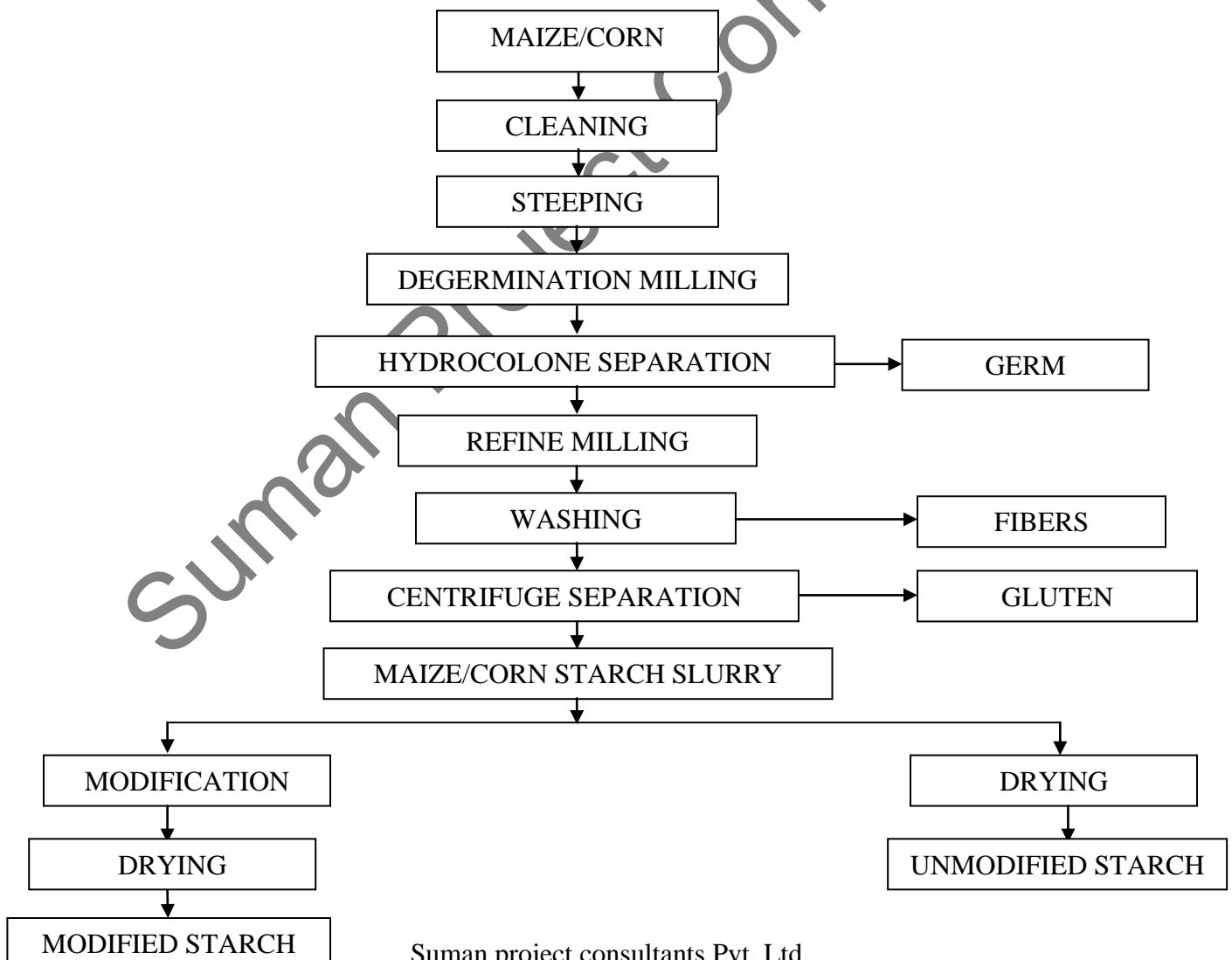
SYNOPSIS ON MAIZE STARCH PROCESSING

• INTRODUCTION

Corn starch or maize starch is the starch of the corn (maize) grain obtained from the endosperm of the corn kernel.

Like other commercial starches, maize starch has a great many use. They include domestic uses as food in puddings, soup and gravy thickeners, as cold or hot water laundry starch, as a preferential water absorber in baking powder, in manufacture of confectionery in sizing and finishing textiles and papers, as a binding agent in papers, in making adhesive paste, in conversion to dextrin's which are the bases of many adhesives, in syrup and sugars, as a binding and diluting agent in preparation of pharmaceutical products such as pills and tablets, in cosmetics etc. Moreover, the production of maize yields some by-products (Germ Oil, Fiber and Gluten) that have high commercial values.

• PROCESS AND TECHNOLOGY





- **PLANT CAPACITY**

The suggested capacity of a plant to manufacture maize starch is 30 TPD in terms of output capacity of starch.

- **PLANT & MACHINERY**

Total cost of machinery and equipments both imported and indigenous will be US \$ 1.35 Millions).

- **RAW MATERIALS**

- | | | |
|---------------------|---|------------------------------|
| 1. Maize | : | 15000 TPA |
| 2. Moisture content | : | 14 per cent H ₂ O |

- **INFRASTRUCTURE AND FACILITIES**

- | | | |
|------------------------|---|-----------------------|
| 1. Land | : | 10,000 sq.mtrs |
| 2. Building | : | 5000 sq.mtrs |
| 3. Power/Electric load | : | 350 KW |
| 4. Water | : | 15 m ³ /hr |
| 5. Steam | : | 3,000 kgm/hr |
| 6. Sulphur | : | 12 kgm/hr |

- **ESTIMATED COST OF PROJECT**

Estimated cost of a project to produce 30 TPD of starch or processing 50 TPD of maize shall be US \$ 2.5 million.

- **SUGGESTED MEANS OF FINANCE**

The project may be financed as suggested below:



	(Rs. in Lakhs)
1. Long term loans from financial institutions	: 803.00
2. Equity capital	: 536.00
Total	: 1339.00

(Loan : Equity:: 60 : 40)

IT SHOULD BE NOTED THAT THE ABOVE MENTIONED FIGURES AND INFORMATION IS TENTATIVE. CONSULTANTS RECOMMEND TECHNO-ECONOMIC FEASIBILITY REPORT TO UNDERSTAND EXACT DETAILS TO THE ABOVE MENTIONED INFORMATION.

FOR FURTHER DETAILS PLEASE CONTACT.

Suman Project Consultants Pvt. Ltd.

Tel: +91-11-26313391 / 26848961

Email:-Contact@SumanProject.com

Suman Project Consultants