

## **LUTEIN RICH MULTIPURPOSE READY MIX**

### **INTRODUCTION**

Lutein and zeaxanthin are antioxidants of carotenoid family. They are naturally occurring, fat soluble pigments in plants. It gives food a red, orange, or yellow colour. Lutein is not synthesized in the body; therefore, the only way to get it is by dietary consumption. A minimum dose required is about 2 to 6 milligrams per day. Consumption of lutein helps in improved vision. It reduces inflammation and redness of the skin.

### **RAW MATERIAL**

Raw materials used are cereals and spices.

### **PLANTS AND MACHINERY**

Tray dryer, apex mill/ grinder, ribbon blender, walk in cooler, vacuum & gas filling/ sealing, boiler, steam jacketed kettle, gas operated burner, platform balance, etc.

### **PROJECT COST – FIXED COST – WORKING CAPITAL (in ` ‘000)** (Estimate for a model project)

|    |   |                |
|----|---|----------------|
| a) | Land & land development (900 m <sup>2</sup> )       | 900.00         |
| b) | Building & civil construction (300 m <sup>2</sup> ) | 2700.00        |
| c) | Plant and machinery                                 | 2100.00        |
| d) | Miscellaneous fixed assets                          | 100.00         |
| e) | Pre-operative expenses                              | 550.00         |
|    | <b>Total fixed capital</b>                          | <b>6350.00</b> |
|    | Working capital margin                              | 1250.00        |
|    | <b>Total Project cost</b>                           | <b>7600.00</b> |

|                        |        |
|------------------------|--------|
| Means of finance       |        |
| Promoters contribution | 2837.5 |
| Term loan              | 4762.5 |

### **PRODUCTION CAPACITY- (estimate)**

The installed capacity 100Kg/ shift/ day and working for 300 days in a year

### **TECHNOLOGY/MANUFACTURING PROCESS – Availability**

CFTRI has standardized the technology and general methods of processing of Lutein rich multipurpose ready mix. Apart from this procedure for quality control, packaging and packaging material specifications, equipment details are also provided by the institute.