

MARIGOLD OLEORESIN

INTRODUCTION

Marigold oleoresin is a valued product prepared from dried marigold flower powder by extracting with a solvent and removal of solvent to trace residues. The oleoresin contains pigment lutein in ester form. Marigold oleoresin is used as a starting material for the preparation of lutein in pure form, a valued nutraceutical in demand. Oleoresin as such is also used for poultry feeding. Lutein in pure form, finds application in selected health products.

RAW MATERIAL

Fresh marigold flowers

PLANTS AND MACHINERY

Hydraulic press, hammer mill, cross flow drier, fruit pulper, miscella distillation unit, extractors, miscella pump, etc.

PROJECT COST – FIXED COST – WORKING CAPITAL (in ` ‘000)

(Estimate for a model project)

a)	Land & land development (500 m ²)	500
b)	Building & civil construction (150 m ²)	1200
c)	Plant and machinery	4600
d)	Miscellaneous fixed assets	50
e)	Pre-operative expenses	520
	Total fixed capital	6870
	Working capital margin	1400
	Total Project cost	8270

PRODUCTION CAPACITY- (estimate)

The installed capacity 2000 Kg Marigold flowers/ shift/ day and working for 200 days in a year

TECHNOLOGY/MANUFACTURING PROCESS – Availability

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