

**CSIR CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE,
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MORINGA SEED PROTEIN ISOLATE AS FLOCCULANT

Moringa seeds and leaves are well known for its water clarification properties. Several efforts are made for developing a technology for water clarification using moringa seed extracts. However bacterial contamination and poor shelf life of the treated water limits its use. The technology based on moringa seed protein isolate as flocculant has overcome the limitations of all conventional approaches.

Use: Clarification of water

Raw Material: Moringa seeds, Hexane, Chemicals, Water

Plant and machinery: Solvent Extraction unit, steam jacketed kettle, Perculator, Centrifuge, Boiler, Drier.

Capacity: 40 kg per day/shift

Project cost:

Land and Site Development	8,50,000
Building and civil work	22,75,000
Plant and machinery	80,38,675
Pre-operative expenses	12,64,641
Total fixed project cost	1,24,28,360

TECHNOLOGY / MANUFACTURING PROCESS –AVAILABILITY

The technology for moringa seed protein isolate as flocculant has been developed at CFTRI, Mysore using appropriate equipments with optimal product recovery.

Chemical characterisation

Parameters	Composition (in %)
Protein	90-95%
Carbohydrate	2-5%
Fat	<0.1%
Ash	<0.5%

