**Green Algal extract (GAe)**

**Brief Description**

- A 100% vegetarian nutraceutical ‘Green Algal extract’ (Cadalmin™ GAe) against joint pain and arthritis.
- Provides a unique blend of 100% natural, bio-active anti-inflammatory ingredient extracted from seaweeds with an ecofriendly ‘green’ technology.
- Concerted efforts of CMFRI scientists to explore new sources of secondary metabolites from seaweeds led to its design and development.
- Components with anti-inflammatory properties isolated from seaweeds/marine macro algae which are natural alternatives to synthetic anti-inflammatory drugs to combat arthritis.

**Technology Benefits**

- A green alternative to the existing allopathic medications of joint pain and arthritis having undesirable side-effects & serious health consequences like stomach bleeding, stroke, and acute renal failure etc.
- Active ingredients are chemically engineered to retain the anti-inflammatory properties for an extended shelf life and stability.
- Suppresses the edema produced by histamine & exhibits its anti-inflammatory action by means of either inhibiting the synthesis, release or action of anti-inflammatory mediators.
- Active ingredients also suppress the build-up of uric acid in hyperuricemic patients.
- Product is free from carcinogenic trans fatty acids, radical adducts, low molecular weight carbonyl compounds & inhibits the pathogenic bacterial build-up due to in-built antibacterial principles embedded.
- Perfectly vegetarian product, with its therapeutic values & an import substitute with an international appeal, providing great market potential especially for the vegetarian population.
- Hygienically processed active ingredients are packed in low moisture content 100% plant-based Naturecaps capsules as Cadalmin™ GAe meeting need of the end users.
- Each capsule contains GAe active principle of 500 mg.
- Highly cost effective indigenous product.
- Recommended dosage: 2 capsules a day after food for the first 3 months, followed by a maintenance dose of 1 capsule daily.

**Financial Aspects**

- Total investment = 1.72 crores*
- Rate of Return = 214.73%
- Profitability = 352.03% *(Project duration 20 years)