

MODEL PROJECT REPORT FOR **SEAWEED CULTIVATION**



Sri Lanka Export Development Board

Model Project Report for

Production of Seaweed Caltivation



Sri Lanka Export Development Board
No. 42, NDB-EDB Tower,
Nawam Mawatha, Colombo 02.
Tele: +94-11-2300705/11
Fax: +94-11-2300715
E mail: edb@edb.gov.lk
Web: www.srilankabusiness.com

All rights reserved.

© Sri Lanka Export Development Board
2017

Table of Contents

1. Background	3
1.1 About Seaweeds	3
2. History of Seaweed collection in Sri Lanka	7
3. Main seaweed groups.....	9
3.1 Seaweeds of Sri Lanka and its Distribution.....	13
3.3 Names of edible seaweed.....	14
4. Composition of Seaweeds	20
4.1 Uses of Seaweeds.....	20
4.1.1 Seaweed Extracts as an industrial raw material.	21
5. Global production of Seaweed	25
5.1 Production of aquatic plants in the world (000'tonnes).....	26
5.2 Top 10 producers of Seaweed in the world- 2014.....	26
5.3 Status of seaweed production in Sri Lanka.....	27
6. Commercializing Seaweed industry in Sri Lanka.....	30
6.1 Major seaweeds processing industries	31
6.1.1World production Seaweed derived hydrocolloids	31
6.2 Production of Alginates.....	31
6.3 Production of Carrageenan.....	33
6.3 Production of Agar	34
7. World trade of Seaweed and related products	36
7.1 Contribution of global aquaculture sector over 25years (1990-2014)	36
7.2 World import and Export of Seaweeds.....	37
7.3 Exports	39
7.4 Market Trends.....	40
7.5 Market Players:	42

8. Market segments and forecast	42
8.1 Price determination	43
8.2 Market behavior	45
9. Future Prospects of Seaweed Industry.....	47
9.1 Social and economic impacts and challenges	47
9.1.1 Ideal livelihood for small fisher families	49
10. Seaweed Farming.....	51
10.1 Types of farming areas.....	52
10.2 Suitable conditions.....	52
10.2.1 Climate and seasons	52
10.3 Currents, seawater temperature, salinity, tides and wave action.....	53
10.4 Site Selection.....	54
10.5 Construction of seaweed farm.....	58
10.6 Seed selection, preparation & planting	64
10.7 Harvesting of Seaweed	65
10.8 The economics of seaweed production.....	68
11. Recommendation.....	74
12. Conclusion	74



**SRI LANKA
EXPORT DEVELOPMENT
BOARD**

No. 42, NDB-EDB Tower,
Nawam Mawatha, Colombo 02.
Tele: +94-11-2300705/11
Fax: +94-11-2300715
E mail: edb@edb.gov.lk
Web: www.srilankabusiness.com