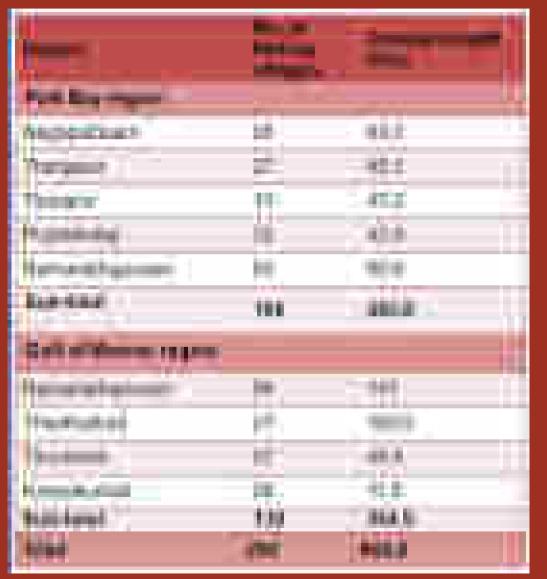
GOVERNMENT OF TAMIL NADU Department of Fisheries and Fishermen Welfare

Establishment of a Multipurpose Seaweed Park in Tamil Nadu



Coastal Villages in Palk Bay and Gulf of Mannar



Seaweed Farming in Palk Bay and Gulf of Mannar

Coastal Villages identified for Seaweed



Potential Districts selected for promotion of Seaweed farming in Tamil Nadu





Major issues



Lack of alternate seaweed species for commercial cultivations

Lack of seaweed seed banks

Financial constraints

Industries

Lack of R&D support

Scarcity of raw material

Lack of exposure to Export market

Ongoing measures of the Government of Tamil Nadu

Ongoing measures of the Government of Tamil Nadu

> Livelihood activity for fisherfolk. Department Fisheries, GoTN has been promoting seaweed farming as viable supplementary or alternative.

Department as distributed 15,360 seaweed rafts and monolines to 1956 fisherwomen for seaweed farming.

The seaweed requirement for industry is 1,15,000 MT.

The present average annual seaweed production in Tamil Nadu is 10,000 tonnes/Annum (Wet weight). Installed seaweed processing capacity is 1.15 lakhs MT. Only 12% is being used.

Need for the Integrated New Seaweed Project

Seaweed sector

The Govt. of Tamil Nadu Proposes a holistic development of seaweed sector in the state with integrated approach.

Catering to industries entrepreneurs of the seaweed industry in order to take this sector into the next higher level in the state and country.

With the present thrust for expansion of seaweed sector provided by the state and Govt. of India, the State of Tamil Nadu is poised for the growth of a unique modern seaweed hub on par with international standards.

By attracting investors, producers, marketers and making Tamil Nadu as a one stop destination for seaweed sector. Announcement on Establishment of Multipurpose Seaweed Park

Problem

There is a huge gap between the Seaweed production and industry requirement.

In order to tap the seaweed potential of the State, during the budget session 2020-2021, Gol had announced the project on Establishment of Multipurpose Seaweed Park in Tamil Nadu.

Chronology of Project Development

A Project was announced by GOI for Establishment of Multi-purpose seaweed park

Appointed KPMG assurance & Consulting services Seaweed Industries have been consuted

Field level Research, stakeholders meeting by KPMG KPMG submitted DPR for Seaweed park for 127.72 crores



Creation of Employment opportunity to the coastal fisher youth and fisherwomen.

Development of value-added seaweed products by encouraging private sector/Entrepreneurs and supporting them to set up seaweed processing units in the proposed seaweed park. Exploration of untapped seaweed Potential in the coastal districts of Tamil Nadu through scientific and traditional seaweed farming.

Development of R & D centres for production of quality seaweed.

Development of seaweed seed bank through ResearchInstitutes, Universities, Private entrepreneurs and Fisheries Department.

Focus of the project

- Immediate focus is to increase the production level to match the processing demand in a phased manner:
 - Increase yield by seed replacement

Focus

mmediate

- Increase production by increasing the number of farmers
- Increase village level infrastructure for drying, storage and accessibility
- Establish a sustainable Seaweed seed production and supply system
- Creation of necessary Infrastructure:

- Increase processing capacity in the subsequent phase through establishment of seaweed processing park
- Simultaneously work on increasing production to match increased processing capacity
- Creation of necessary
 Infrastructure:

Strategy for Seaweed seed replacement in Tamil Nadu

Integrated model for multipurpose Seaweed Park

Establishment of integrated seaweed park in the State is envisaged to provide the **necessary infrastructure** to drive R&D initiatives for production of quality seed material, development of new product lines from seaweeds. The seaweed park will also provide single window support for the entrepreneurs, processors etc. to access information on schemes, licenses/approvals required, while also providing space to set up processing centres

Seed Production and multiplication

Seaweed Seed Production can be managed by engaging farmers from three districts –

Ramanathapuram (Palk Bay), Pudukottai District (Palk Bay) and Thoothukudi (Gulf of Mannar).

Focus will be on two key aspects, **germplasm improvement & rapid seed multiplication**

Development of Seed Development Agency for seed production and multiplication:

Rapid multiplication of seed material will be entrusted to the progressive farmers. **To streamline the process and manage the operations and activity of seed multiplication and distribution better, a formal institutional mechanism will be established in form of Farmer Producer Organizations at District Level.**



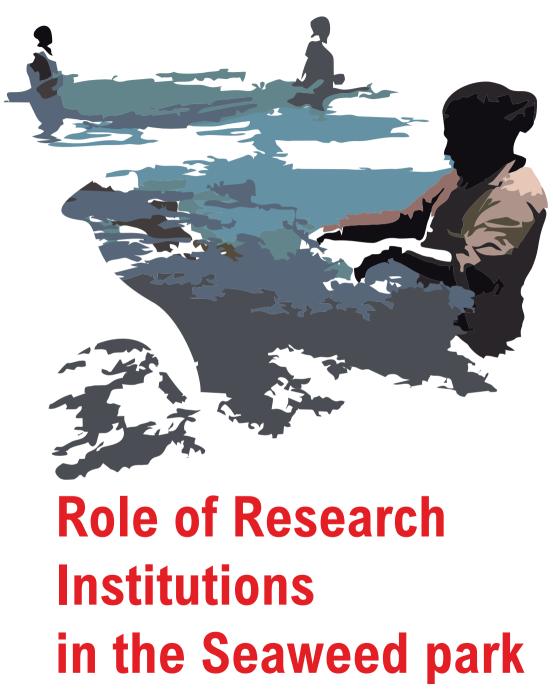
Multipurpose Seaweed Park

Commercialization techniques of alternative species for seaweed culture

Genetic improvement program for development of good quality seedlings

Development of various value added products from Seaweeds

Since, Seaweed park acts as a Hub, It is easy for the Institutions for transfer of technologies swiftly



Seaweed park – The Solution

For farmers

- Potential to transform the lives of coastal communities and will provide large employment and additional income.
- Great opportunity as an alternative livelihood option during off and ban season
- Empowerment of Fisherwomen
- Farmers can receive hands-on training on advanced and intensive cultivation methods
- Helps in regulation of procurement price by avoiding middle-men
- Easy availability of good quality seeds throughout the year for continuous culture



Seaweed park – The Solution

For industries



- Seaweed park will help in bringing more investments to the industry as in case of finfish and shrimp industries
- Easy availability of raw materials
- Encourages the industries to grow vertically (Produce Process Export)
- State of the art infrastructure and technical expertise will help industries to implement and develop advanced and cost-effective technologies
- Product diversification and Export of various value-added products from seaweed
- Proper marketing model helps in easy value-chain process
- Branding of Indian products in Export market

Targets Envisaged

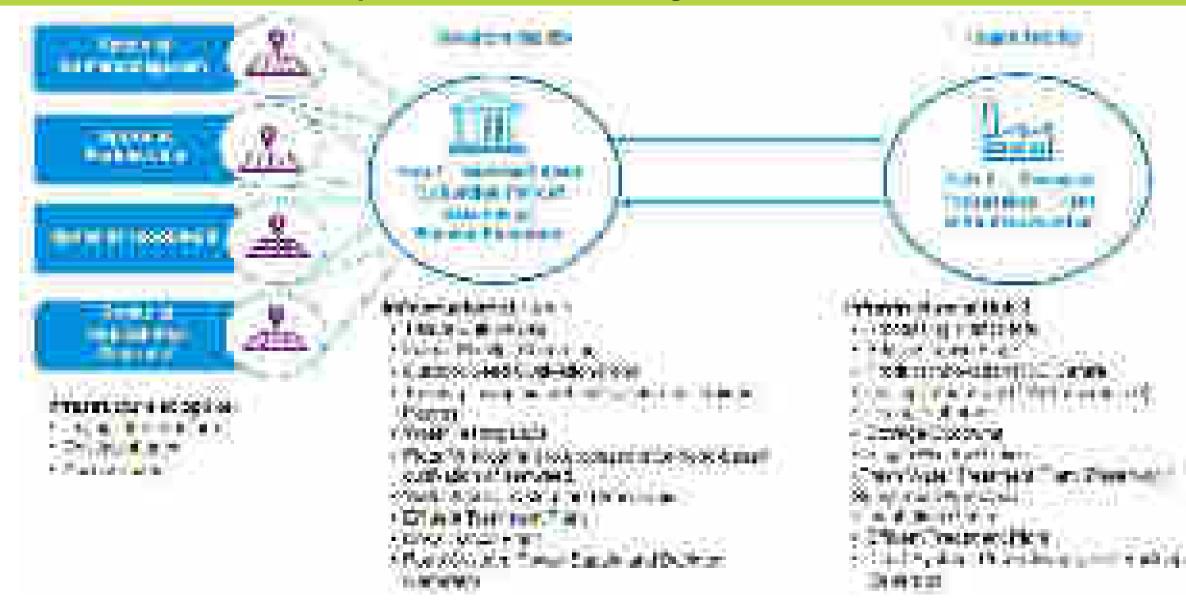
SI. No.	Particulars		Revised estimates- Quantity (MT/annum)		Share (%)	
1	Current estimated production (fresh/wet)	13,300	13,300 to 16,300		9-11% of production potential	
2	Estimated production potential (fresh/wet)	148,50	0 to 181,50)0		
3	Installed Capacity of Seaweed processing (fresh/wet)	115,15	0*			
4	Current capacity utilization of Seaweed Processing (fresh/wet)	24,265			21.1% of ins pacity	talled
5	Current import of raw material from outside States (fresh/wet)	8,550		~35% of current RM processed		nt RM
_						
	Particulars	Current	Year 1	Year 2	Year 3	
	Seaweed Production (MT, wet)	14,779	19,700	30,600	49,000	
	Seaweed Farmers (nos)	650	625	969	1,552	
	Seed Production Volumes (MT) - 50% seed replacement	462	778	1,153	1,539	
	Seed Farmers to be established (nos)		73	104	137	

Estimated budget forestablishment of multi-purpose seaweed park

Particulars	Total Program Cost	Central Govt. Share	State Govt. Share	Beneficiary Share
Hub-1 (Seaweed Production Park) Hub-2 (Seaweed Processing Park) Spoke level (Type 1) Spoke level (Type 2) Seed importation and probagation FPO formation & funding support Seaweed farmer support raft Seaweed farmer support monoline	127.71	75.15	48.94	3.60
Total Cost (in Crores)	127.71	75.15	48.94	3.60

Multipurpose Seaweed Park – Hub & Spoke model

Conceptual Framework of Integrated Seaweed Park



Hub 1 Mosfer Luycul



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O&M Model- Recommendations – Hub 1 level



O&M Model- Recommendations – Hub 2 level







Thank You!