

Seaweed Trade : Issues and Strategies



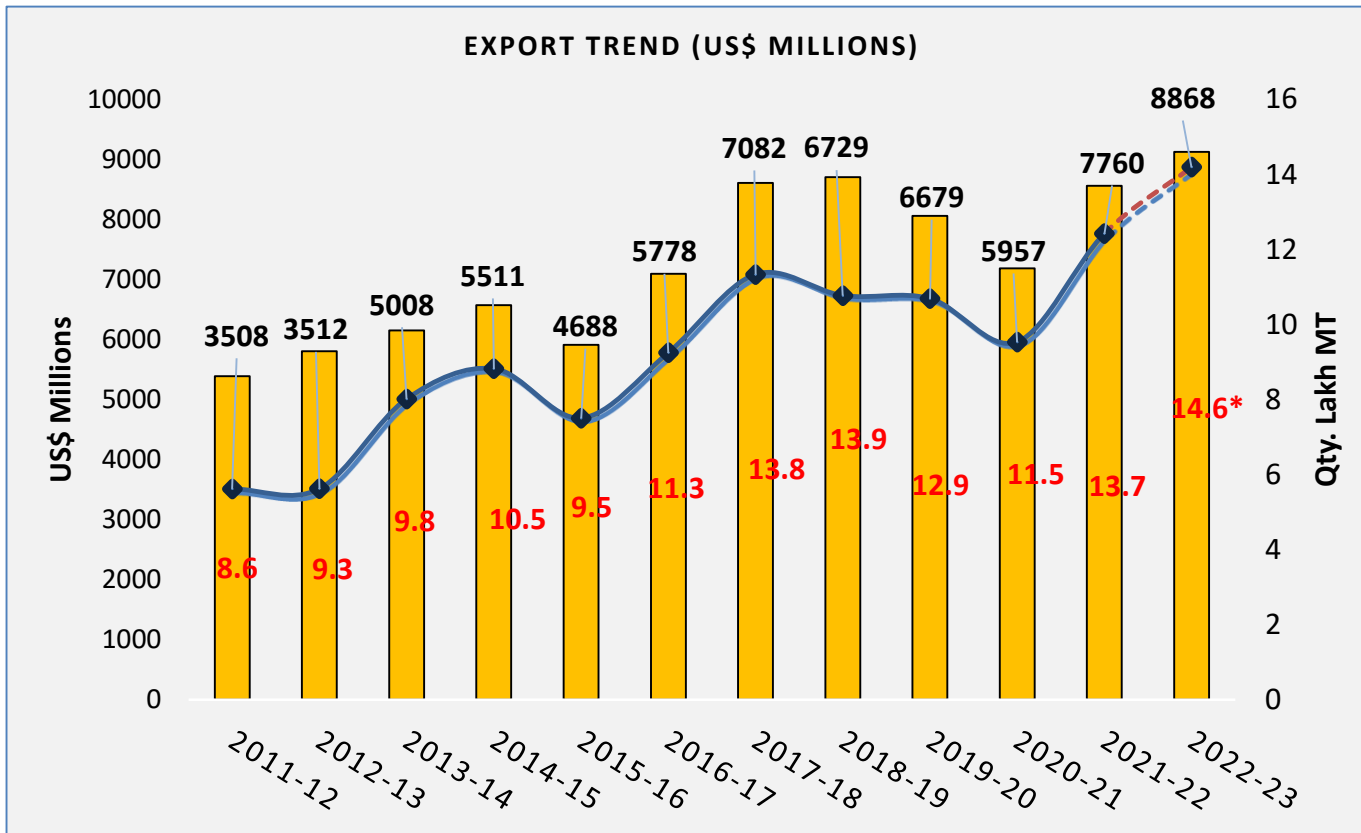
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Dr. M. Karthikeyan, Director, MPEDA



Export Performance of Marine Products

India exported to 123 countries in 2021-22
Top 5 countries contribute 70.8 % (US\$)
USA – Top import market in value for last 11 years



* estimate

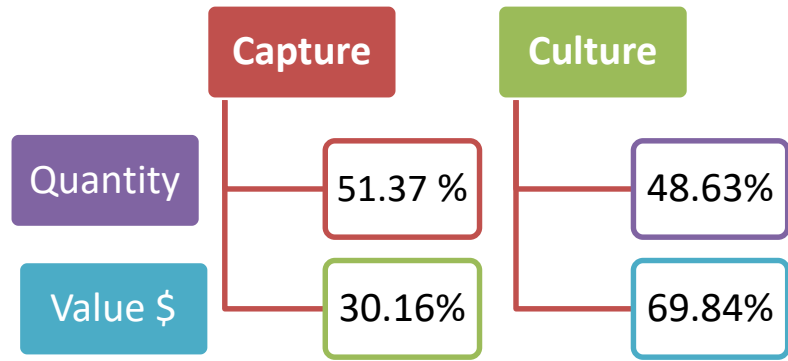
- Last 5 years CAGR of World Seafood Export Trade is 2.51%*
- Last 5 years CAGR of India is 4.91%
- 2021-22 all time high export
- 30% growth compared to 2020-21 in USD.
- Requires a growth of 14 % to achieve the target

Top 5 countries are USA, China, Japan, Vietnam & Thailand.



Seafood Export Scenario - India

Share of Capture and Culture in Exports



Total Seafood Exports (2021-22)

Quantity – 13,69,264 MT

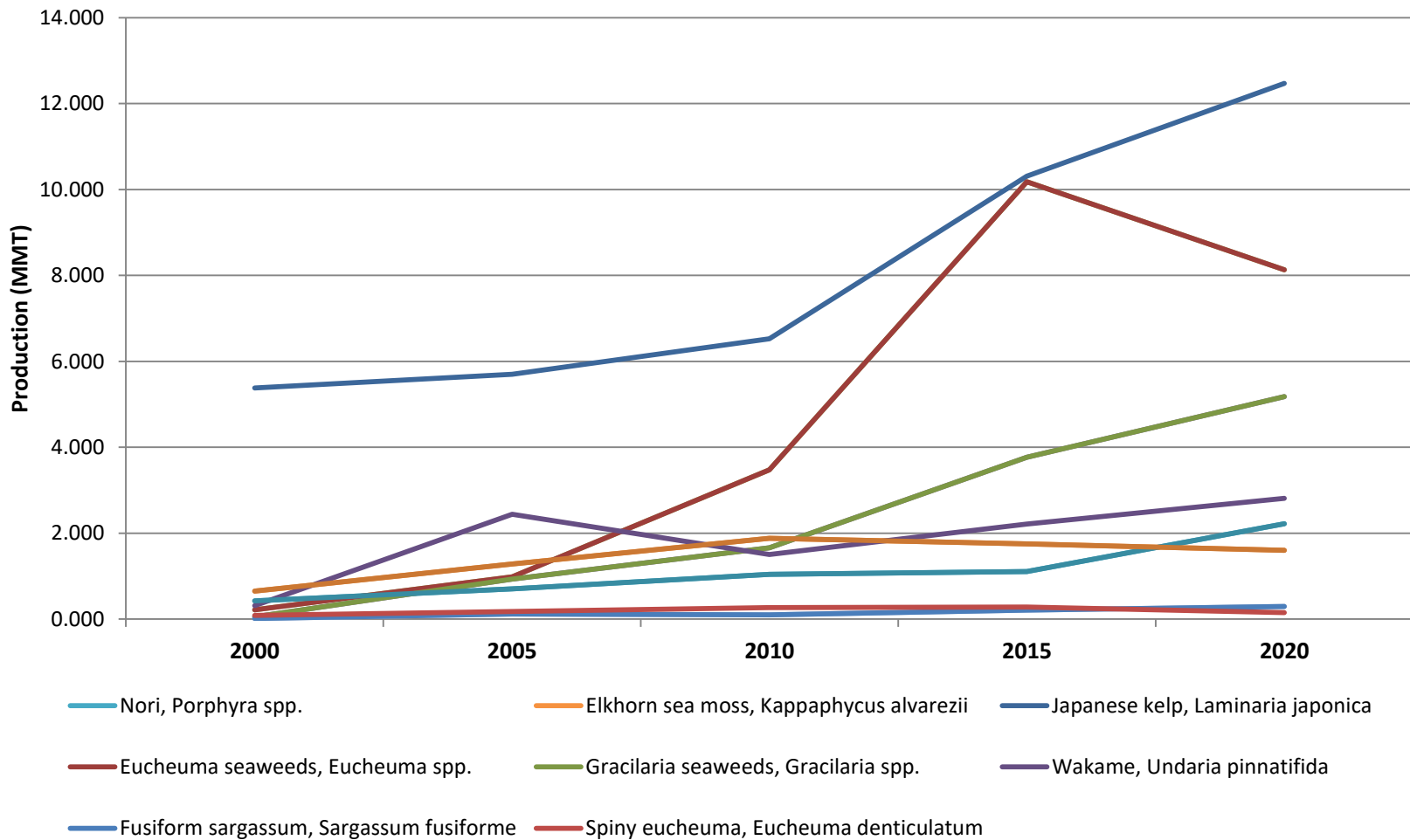
Value – 7,759.58 USD

Major Species Groups Contributing to Exports

Shrimp	Vannamei, BlackTiger, white, Flower, Scampi etc.
Fish	Ribbonfish, Croakers, Tuna, Pomfret etc.
Cephalopods	Squid, Cuttlefish, Octopus
Seaweeds	Kappaphycus alvarezii, Gracilaria dura/edulis, Gelidiella acerosa, Sargassum spp, Turbinaria spp
Others	Clams, lobsters, crabs, Whelks etc.



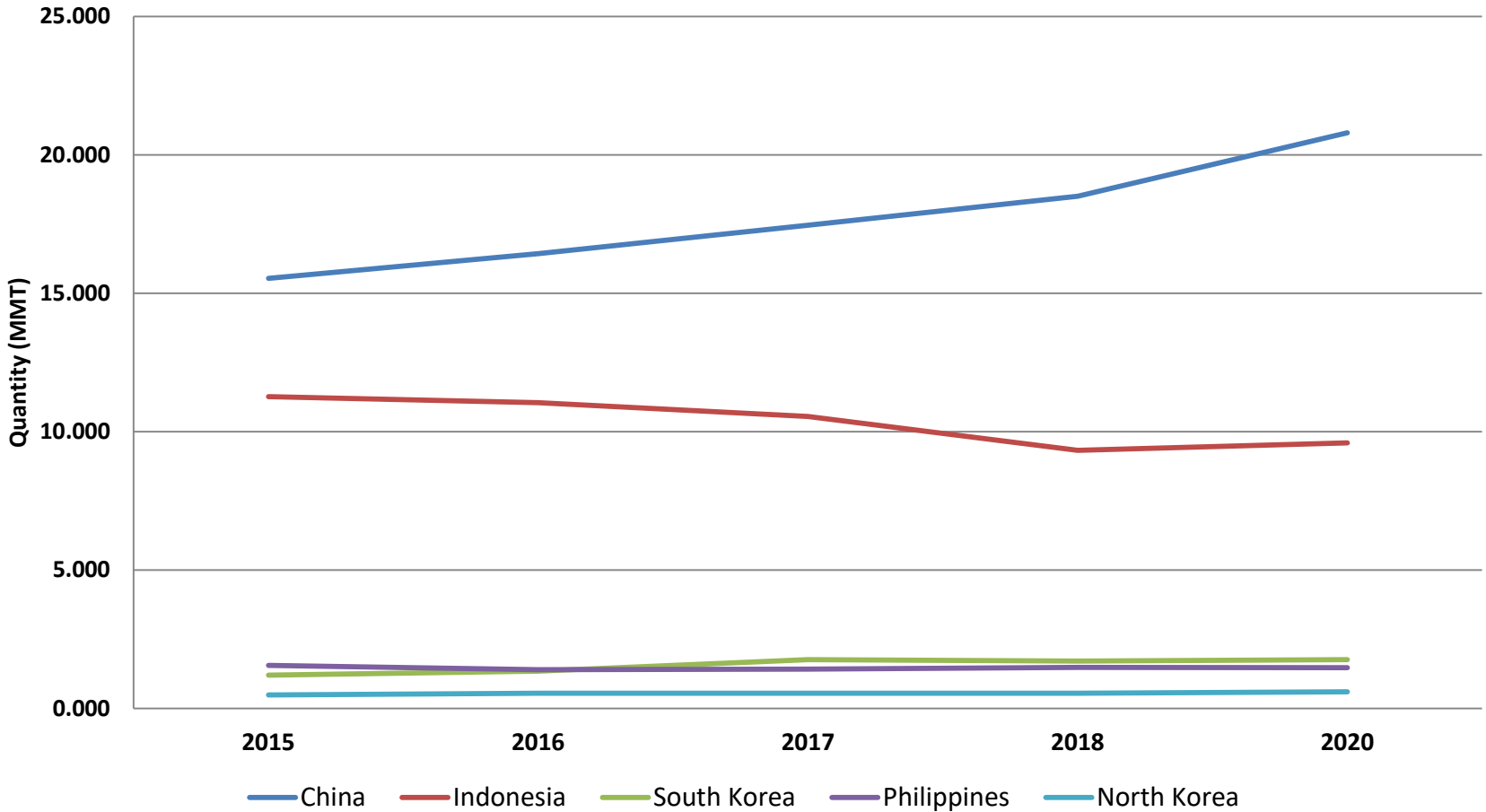
World Seaweed Production



Source : SOFIA,2022



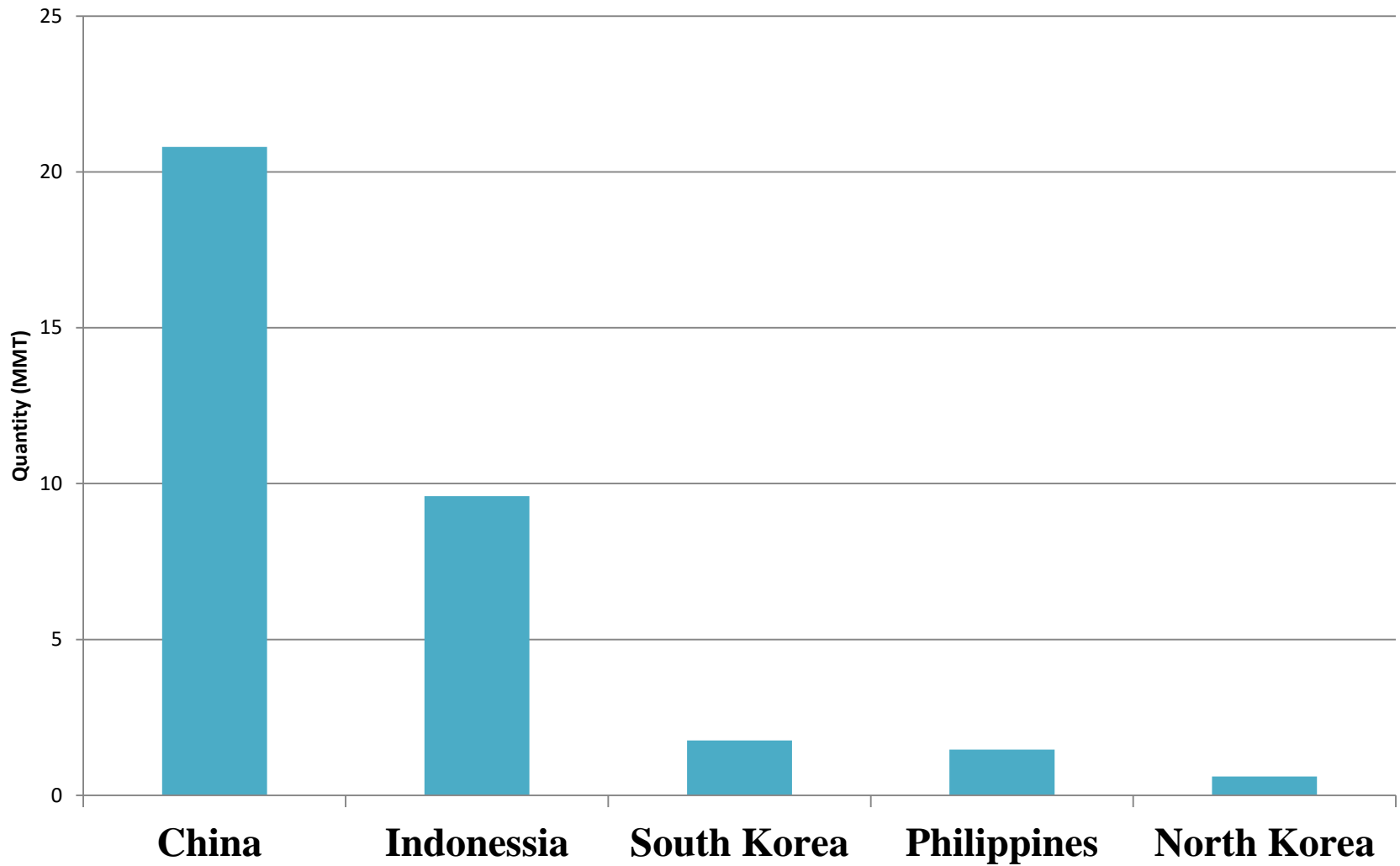
Trend in Seaweed Production – Country wise



Source : SOFIA, 2022



World Top Seaweed Producers



Source : SOFIA,2022



WORLD IMPORT & INDIA'S SHARE (2021)

HS Code	Description	World import (USD mln)	India's export (USD mln)	India's share (%)
'121221	Seaweeds and other algae, fresh, chilled, frozen or dried, whether or not ground, fit for human consumption	872.58	1.11	0.13%
121229	Seaweeds and other algae, fresh, chilled, frozen or dried, whether or not ground, unfit for human consumption	347.71	0.25	0.07%
130231	Agar-agar, whether or not modified	243.68	2.35	0.96%
TOTAL		1463.97	3.71	0.25

Source : Trade map



World Top Exporters of Seaweed (HS Code : 121221)

Fit for consumption

SI No.	Exporters	Quantity (MT)	Value (USD mln)
1	Korea, Republic of	24,421	253.71
2	Indonesia	187,504	219.11
3	China	12,625	49.83
4	United States of America	1,761	19.84
5	Japan	1,383	19.43
6	Philippines	8,917	12.91
7	Spain	1,337	10.80
8	Denmark	804	10.20
9	United Kingdom	1,278	7.80
10	Canada	<i>no data</i>	6.79
	World	<i>no data</i>	673.83

Unfit for consumption

SI No.	Exporters	Quantity (MT)	Value (USD mln)
1	Chile	66,287	102.51
2	Peru	42,720	38.34
3	Ireland	76,069	38.21
4	Canada	no data	12.49
5	Iceland	4,573	8.42
6	France	9,576	7.06
7	Indonesia	21,453	6.23
8	Morocco	1,805	5.36
9	Vietnam	no data	5.32
10	United States of America	396	4.76
	World	no data	272.38

Source : Trade map

Export by top countries : USD 946.21 Mn



World Top Importers Seaweed (HS Code : 121221)

Fit for consumption

Sl No.	Importers	Quantity (MT)	Value (USD mln)
1	China	161,410	234.19
2	Japan	30,796	179.28
3	United States of America	8,179	66.85
4	Russia	3,830	49.64
5	Taipei, Chinese	13,584	48.36
6	Thailand	4,414	44.94
7	Australia	1,598	22.97
8	Korea, Republic of	9,357	15.03
9	Vietnam	9,824	14.33
10	Brazil	1,272	13.48
	World	<i>no data</i>	872.58

Unfit for consumption

Sl No.	Importers	Quantity (MT)	Value (USD mln)
1	China	149,126	155.72
2	United States of America	18,077	38.07
3	France	66,682	25.72
4	Spain	11,793	16.16
5	Japan	8,279	13.72
6	ireland	70,804	12.60
7	United Kingdom	2,265	12.41
8	Denmark	5,596	7.22
9	Germany	2,066	5.24
10	Italy	4,182	5.04
	World	381,401	347.71

Source : Trade map

Import by top countries : USD 1220.29 Mn



Top Importers and Exporters of Agar agar (HS Code : 130231)

SI No.	Exporters	Quantity (MT)	Value (USD mln)
1	China	6,252	82.32
2	Spain	1,640	42.39
3	Chile	1,208	27.49
4	Morocco	765	23.80
5	Indonesia	1,226	15.92
6	Korea, Republic of	552	13.52
7	Viet Nam	755	10.57
8	Germany	374	9.36
9	USA	192	5.55
10	Netherlands	49	2.36
	World	14,550	251.48

SI No.	Importers	Quantity (MT)	Value (USD mln)
1	Japan	1,604	38.56
2	USA	1,834	35.75
3	China	1,538	22.03
4	Russian Federation	1,139	15.96
5	Spain	1,064	15.70
6	Germany	719	12.94
7	Thailand	677	10.69
8	France	362	9.39
9	United Kingdom	926	8.66
10	India	385	7.05
	World	no data	243.68

Source : Trade map



SEAWEED IN INDIA

India's potential : 9.7 million tonnes

Current production : 34,000 tonnes

Annual Requirement for industry – 1.15 lakh MT

Potential areas:

- Tamil Nadu
- Gujarat
- Maharashtra & Goa
- Lakshadweep
- Andaman & Nicobar Islands

Potential species:

- *Kappaphycus alvarezii*
- *Gelidiella acerosa*, *Turbinaria spp.*
- *Gracilaria edulis*, *Cystoseira trinodis*
- *G. crassa*,
- *G. foliifera*,
- *G. verrucosa*
- *Sargassum spp*





INDIA'S EXPORT – COUNTRY WISE

A. AGAR - AGAR

Q: Quantity in Tons, Value: USD Million

Sl : No	Country	2019-20		2020-21		2021-22	
		Quantity	Value	Quantity	Value	Quantity	Value
1	U A E	22	0.34	13	0.22	32	0.53
2	IRAN	10	0.20	19	0.31	15	0.35
3	THAILAND	8	0.13	0	0.00	100	0.30
4	CHILE	3	0.04	0	0.00	9	0.13
5	TAIWAN	5	0.08	4	0.06	9	0.13
6	TURKEY	2	0.04	6	0.12	6	0.12
7	SPAIN	26	0.33	8	0.11	8	0.12
8	FRANCE	0	0.00	3	0.04	6	0.08
9	SOUTH AFRICA	20	0.31	5	0.07	6	0.08
10	MALAYSIA	4	0.06	15	0.22	4	0.06
11	OTHERS	21.39	0.42	22.46	0.43	23.97	0.48
	TOTAL	121	1.96	95	1.57	219	2.39

B. SEAWEED

Value : Lakh

Sl : No	Country	2019-20	2020-21	2021-22
1	AUSTRALIA	0.20	0.30	0.00



INDIA'S IMPORT - 2021

SI No	HS CODE	DESCRIPTION	Qty (MT)	Value (USD mln)	Importing from
1	1212 21	Seaweeds and other algae, fresh, chilled, frozen or dried, whether or not ground, fit for human consumption	56	2.98	Israel Malaysia
2	1212 29	Seaweeds and other algae, fresh, chilled, frozen or dried, whether or not ground, unfit for human consumption	240	0.25	Indonesia Sri Lanka
3	1302 31	Agar-agar	385	7.05	China Spain
TOTAL			681	10.28	



Seaweed products from India

- **MPEDA Registered exporters : 3 Nos**
- **Products exported :**
- 1) Agar agar,
- 2) edible seaweeds &
- 3) aqua sap plant nutrients.



Rainbow Agar Jellies



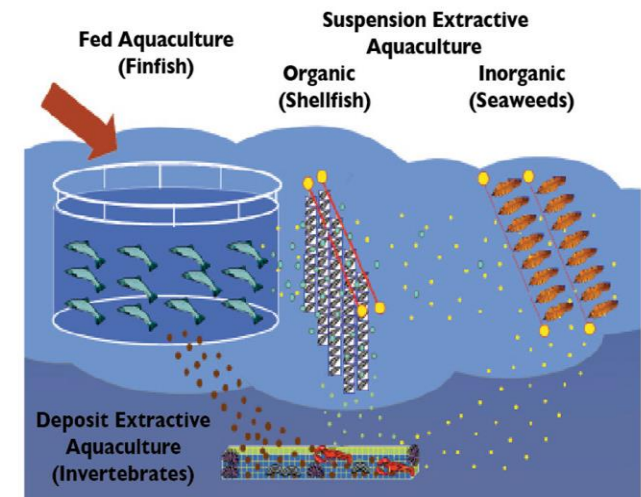
Fruit Jelly Cake from Agar



Spreadable Agar agar

Competitor Edge

- Doing seaweed culture - Land base and Open Sea
- Culture in Sustainable manner
- Using Genetically improved plant seed, high-yielding and *stress-resistant* germplasm.
- Floating rafts are used to grow sporophytes.
- Government fund support for seaweed research.
- More Seaweed industries involved in production and hand holding the small farmers.
- Cultivating more number of seaweed species.
- Integrated multi-trophic aquaculture (IMTA) a combination of the different trophic species – fish, seaweed, shellfish and abalones is practiced in China.
- Korea has achieved ASC-MSC Seaweed Standard for responsible and sustainable seaweed production.



Source : SOFIA,2022



Action Taken by MPEDA for promotion of Seaweed Export

- To support value addition in seaweed products - MPEDA provided financial assistance under the Scheme - Technology development for Specific Value Added Products(TDSVAP) during 2018-2020.

No of Beneficiaries : 3

Amount released : Rs.1.29 Crore

- Meeting with Good Food Institute (GFI) in order to promote sea weed based analog products
- Recommended to DGFT to add Agar agar (13023100) under RoDTEP scheme for getting the export benefits.
- Registering units - seaweed/seaweed based products



Current Policy for Seaweed export

- **All seaweeds has to exported under license** (except Brown seaweeds and Agarophytes of Tamil Nadu coast origin in processed form) - as per the Schedule 2 of Foreign Trade Policy
- **Quantitative ceilings in export:** The export of Brown seaweeds and Agarophytes of Tamil Nadu coast origin in processed form is subject to quantitative ceilings notified time to time by DGFT, Department of Commerce .



Caviar from Agar instant





Policy interventions and Strategies

Production oriented:

- Introduce commercially important seaweed species
- Facilitate regular import of germplasm of these species
- Develop seaweed seed banks in maritime states
- Identify and allocate seaweed farming area

Export oriented:

Amend the Export policy suitably

Remove the restriction under Foreign Trade Policy

Make only MPEDA Registration mandatory for exports

Remove additional license and quantity ceiling of DGFT

Reduce import duty from 30% to 0% for importing quality seaweed meant for reprocessing and export



Caviar from Agar instant





MPEDA

**Thank
You**
