

MarinTrust Standard V2

By-product Fishery Assessment THA31 - Indian mackerel in FAO areas 51 and 57

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Table 1 Application details and summary of the assessment outcome

	Species:	Indian mackerel (<i>Rastrelliger kanagurta</i>)
	Geographical area:	FAO areas 51 and 57
Fishery Under Assessment	Country of origin of the product:	Thailand
	Stock:	Indian Ocean
Date		January 2024
Report Code		THA31
Assessor		Jose Peiro Crespo
Country of origin of the product - PASS		Thailand
Country of origin of the product - FAIL		n/a

Application details and	I summary of the assess	ment outcome	
Company Name(s): T.	C. Union Agrotech Co, It	:d	
Country:			
Email address:		Applicant Code	e:
Certification Body Deta	ails		
Name of Certification I	Body:		
		Accossmont	Initial/Surveillance/
Assessor	Peer Reviewer	Assessment Days	Re-approval
Jose Peiro Crespo	Sam Peacock	0.2	Re-approval
Assessment Period	January 2024- January	2025	

Scope Details	
Main Species	Indian mackerel (Rastrelliger kanagurta)
Stock	Indian Ocean
Fishery Location	FAO areas 51 and 57 (Western and Eastern Indian Ocean)
Management Authority	Thailand
(Country/ State)	
Gear Type(s)	Purse Seine and nets
Outcome of Assessment	
Peer Review Evaluation	Agree with assessment outcome
Recommendation	Approve

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Table 2. Assessment Determination

Assessment Determination

Indian mackerel (*Rastrelliger kanagurta*) has been categorised by the IUCN as a species of Least Concern and does not appear in the CITES appendices. There does not appear to be any evidence of reference points or speciesspecific management measures for the species across the Indian Ocean. Due to the absence of reference points, the byproduct was assessed under Category D.

Indian mackerel in the Indian Ocean was awarded a Productivity score of 1.29 and a Susceptibility score of 2.75, leading to a Pass rating against Table D3. Therefore, it meets the MT requirements and should be **approved** for use as a raw material.

Fishery Assessment Peer Review Comments

This byproduct meets the pre-requisites for MT approval, having been categorized by the IUCN as Least Concern and not appearing in the CITES appendices. The assessor has correctly assessed the species under Category D, as there does not appear to be any species-specific management or stock assessment. The peer reviewer agrees with the outcomes of the Productivity Susceptibility Analysis, and the byproduct should remain approved for use as a raw material.

Notes for On-site Auditor



CATEGORY C SPECIES

Species Categorisation

NB: If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as an MarinTrust raw material.

IUCN Red list Category

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

Table 3 Species Categorisation Table

Common name	Latin name	Stock	Management	Category	IUCN Red List Category ¹	CITES Appendix 1 ²
Indian mackerel	Rastrelliger Kanagurta	Indian Ocean	No	D	<u>LC</u> (least concern)	No

¹<u>https://www.iucnredlist.org/</u>

² https://cites.org/eng/app/appendices.php



CATEGORY D SPECIES

Category D species are those which are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

Productivity Attribute	Value	Score
Average age at maturity (years)	2,5 years	1
Average maximum age (years)	4 years	1
Fecundity (eggs/spawning)	From 37,690 to 170,455	1
Average maximum size (cm)	36.0 cm (male), 42.1 cm (female)	1
Average size at maturity (cm)	20 - 24.5 cm	1
Reproductive strategy	Broadcast spawner (open	2
Reproductive strategy	water)/ demersal egg layer	2
	(precautionary score)	
Mean trophic level	3.2	2
	Average Productivity Score	1.29
Susceptibility Attribute	Value	Scor
Availability (area overlap)	10 – 30% overlap	2
Encounterability (the position of the stock/speci		3
within the water column relative to the fishing g		
	90m	
Selectivity of gear type	Precautionary	3
Post-capture mortality	Most dead or retained	3
	Average Susceptibility Score	2.75
	PSA Risk Rating (From Table D3)	PAS
	Compliance rating	PASS
For susceptibility attributes, please provide a bria uncertainty affecting your decision	ef rationale for scoring of parameters where the	nere may b
	pecies distribution	

Froese, R. and D. Pauly. Editors. 2023. FishBase. World Wide Web electronic publication. www.fishbase.org, (10/2023). Available at: https://www.fishbase.org, (10/2023).

Standard clauses 1.3.2.2



Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)
Average age at maturity	<5 years	5-15 years	>15 years
Average maximum age	<10 years	10-25 years	>25 years
Fecundity	>20,000 eggs per year	100-20,000 eggs per year	<100 eggs per year
Average maximum size	<100 cm	100-300 cm	>300 cm
Average size at maturity	<40 cm	40-200 cm	>200 cm
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer
Mean Trophic Level	<2.75	2.75-3.25	>3.25

Susceptibility attributes		ow susceptibility .ow risk, score = 1)		edium susceptibility nedium risk, score = 2)		igh susceptibility igh risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	0% overlap		-30% overlap		30% overlap
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	fis	w overlap with hing gear (low counterability).		edium overlap with hing gear.	fis en De	igh overlap with hing gear (high counterability). efault score for rget species
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught
Potential of the gear to retain species	ь	Individuals < size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity are retained by gear.
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	re	vidence of majority leased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.



D3		Average Susceptibility Score			
		1 - 1.75 1.76 - 2.24		2.25 - 3	
Average Productivity	1 - 1.75	PASS	PASS	PASS	
Score	1.76 - 2.24	PASS	PASS	TABLE D4	
	2.25 - 3	PASS	TABLE D4	TABLE D4	

D4	Spe	cies Name		
	Impac	ts On Species Categorise	d as Vulnerable by D1-D3 - Minimum Requirements	
	D4.1		of the fishery on this species are considered during the management le measures are taken to minimise these impacts.	
	D4.2	There is no substantia species.	al evidence that the fishery has a significant negative impact on the	
		•	Outcome:	
Eviden		ential impacts of the fi	shery on this species are considered during the management proces	ss, and
D4.1: reasor	The potential th	easures are taken to mir		ss, and
D4.1: reasor	The potentiable me	easures are taken to mir	imise these impacts.	ss, and
D4.1: Treasor	The potentiable me	easures are taken to mir	imise these impacts.	ss, and
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D4.1: Treason D4.2 T Refere Links	The potentiable me here is n ences	easures are taken to min	imise these impacts.	ss, and