



# MarinTrust Standard V2

# By-product Fishery Assessment, THA26 Indian Oil Sardine in FAO Areas 51 & 57

#### **MarinTrust Programme**

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# Table 1 Application details and summary of the assessment outcome

	Species:	Indian Oil Sardine (Sardinella longiceps)	
	Geographical area:	FAO Areas 51, 57	
Fishery Under Assessment	Country of origin of the product:	Thailand	
	Stock:	Indian Ocean	
Date	December 2023		
Report Code	THA26		
Assessor		Sam Peacock	
Country of origin of the product - PASS	Thailand		
Country of origin of the product - FAIL		None	

Application details and	summary of the assessmen	t outcome		
Company Name(s): As	ian Alliance International Co	. Ltd, South E	ast Asian Packaging and Canning	
Ltd,				
Country:				
Email address:		Applicant Code:		
Certification Body Deta	ails			
Name of Certification E	Body:		LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval	
Sam Peacock	Jose Peiro Crespo	0.2	Initial	
Assessment Period	Decen	nber 2023 – D	ecember 2024	

Scope Details	
Main Species	Indian Oil Sardine (Sardinella longiceps)
Stock	Indian Ocean
Fishery Location	FAO Areas 51, 57
Management Authority (Country/ State)	Thailand
Gear Type(s)	Purse seine, pelagic trawl
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Approve byproduct



### Table 2. Assessment Determination

#### **Assessment Determination**

Indian oil sardine 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 species-specific management measures for Indian oil sardine across the Indian Ocean as a whole, although efforts are being made to establish management in certain regions. Due to the absence of reference points, the byproduct was assessed under Category D.

Indian oil sardine in the Indian Ocean was awarded a Productivity score of 1 and a Susceptibility score of 3, 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**

The by-product fishery under assessment is the Indian oil sardine (*Sardinella longiceps*) caught with purse seine and pelagic trawls in FAO areas 51 and 57 (Indian Ocean). The species is listed as LC in the IUCN red list. No reference points have been defined for this stock and no information on management has been found. Therefore, the stock is assessed under category D and a productivity susceptibility analysis (PSA) is undertaken.

The stock awards a Productivity Score of 1 and a Susceptibility Score of 3, leading to a Pass rating on Table D3.

The peer review supports the auditor's recommendation to pass the Indian Ocean sardine caught with purse seine and pelagic trawls in the Indian Ocean (FAO areas 51 and 57) under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

Notes for On-site Auditor		



# **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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Indian oil sardine	Sardinella longiceps	Indian Ocean	No	D	Least Concern <sup>3</sup>	No

<sup>&</sup>lt;sup>1</sup> https://www.iucnredlist.org/

<sup>&</sup>lt;sup>2</sup> https://cites.org/eng/app/appendices.php

<sup>&</sup>lt;sup>3</sup> https://www.iucnredlist.org/species/154989/55159768



## **CATEGORY C SPECIES**

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

Clause C1 should be completed for each Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it should be assessed as a Category D species instead.

Spe	ecies	Name	n/a		
<b>C1</b>	Categ	ory C Stock Sta	atus - Minimum Requirements		
C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assess					
		process, OR	are considered by scientific authorities to be negligible.		
	C1.2	The species i	is considered, in its most recent stock assessment, to have a biomass above the limit		
		reference po	oint (or proxy), OR removals by the fishery under assessment are considered by scientific		
		authorities to	o be negligible.		
			Clause outcome:		
21.1	Fishery	removals of the	he species in the fishery under assessment are included in the stock assessment proces	s, OR ar	
			ered, in its most recent stock assessment, to have a biomass above the limit reference is fishery under assessment are considered by scientific authorities to be negligible.	Ponie (c	
Refer	ences				
Links					
Marir	Trust S	tandard clause	e 1.3.2.2		
FAO (	CCRF		7.52		
GSSI			7.5.3		



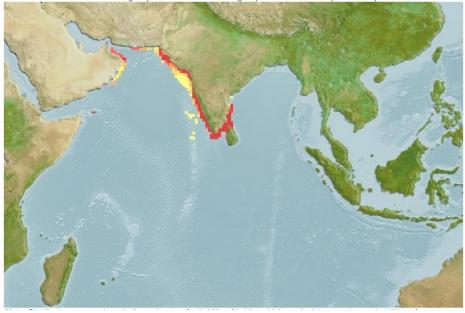
#### **CATEGORY D SPECIES**

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.

D1	Species Name	Indian Oil Sardine	
	Productivity Attribute	e Value	Score
	Average age at maturity (years)	0.8 years	1
	Average maximum age (years)	2.8 years	1
	Fecundity (eggs/spawning)	Unknown	-
	Average maximum size (cm)	23cm	1
	Average size at maturity (cm)	12.9cm	1
	Reproductive strategy	Broadcast spawner	1
	Mean trophic level	2.4	1
		Average Productivity Score	1
	Susceptibility Attribut	re Value	Score
	Availability (area overlap)	>30%	3
	Encounterability (the position of the si within the water column relative to the	largeted	3
	Selectivity of gear type	Retained	3
	Post-capture mortality	Retained	3
		Average Susceptibility Score	3
		PSA Risk Rating (From Table D3)	PASS
		Compliance rating	PASS

#### Further justification for susceptibility scoring (where relevant)

For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision



Computer-generated distribution map for Indian oil sardine (From Fishbase, <a href="https://www.fishbase.se/summary/1511">https://www.fishbase.se/summary/1511</a>)



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Fishbase, Indian oil sardine: <a href="https://www.fishbase.se/summary/1511">https://www.fishbase.se/summary/1511</a>

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	<10% overlap		10-30% overlap		>3	>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.	High overlap with fishing gear (high encounterability). Default score for target 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	b	Individuals < size at maturity can escape or avoid gear.	Ь	Individuals < half the size at maturity can escape or avoid gear.	b	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	ridence of majority eased 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		

<b>D4</b>	Spe	cies Name	n/a					
	Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements							
	D4.1	The potential impacts	of the fishery on this species are considered during the management					
process, and reasonable measures are taken to minimise these impacts.								
<b>D4.2</b> There is no substantial evidence that the fishery has a significant negative impact on the species.								
	•		Outcome:					
Evider	nce							
D4.2 T	here is r	no substantial evidence	that the fishery has a significant negative impact on the species.					
Refere	ences							
Links								
Marin	Trust Sta	andard clause	1.3.2.2, 4.1.4					
FAO C	CDE		7.5.1					

D.5.01

GSSI