



**MSC Improvement Program
Marine Stewardship Council**

Indonesia Medan squid handline fishery

MSC Fishery Improvement Action Plan

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1 Improvement Action Plan Overview

Table 1. Improvement Action Plan overview

Fishery name or Unit/s of Assessment (UoA/s):	Indonesia Medan squid handline	Fishery location:	Belawan coastal waters (Malacca strait - FAO 57.1 (IFMA 571)).
Fishing gear type(s):	Handline (with squid jigs), Angling, Buka Ami	Fishery in MSC Improvement Program? (Applicant/Yes/No):	Yes
Does the fishery client intend to enter the UoA(s) into MSC full assessment (or in the case of a suspended MSC certificate enter the reinstatement process)?	Yes		
If yes, please indicate which version of the MSC Fisheries Standard will be used for Full Assessment (<i>delete as appropriate</i>).	v2.01		
IAP Start date (expected): <i>DD/MM/YYYY</i>	MSC Improvement Program Completion Date (The expected date on which an Improvement Action Plan is completed, whereby the UoA(s) has/have achieved a draft scoring range equivalent to an MSC pass and a CAB has uploaded either an ACDR or a Surveillance Report to the MSC database as a means to 'complete' the MSC Improvement Program process)		
23/12/2020	23/12/2025		
Project leaders (organisation/individual responsible for IAP):	IAP and improvements supported by (stakeholder groups, organisations, or meetings that supported the development of the IAP):		
The Happy Seafood Co. & Universitas Sumatera Utara (USU)	Asia Pacific FIP Community of Practice Workshop - 15 – 17 October 2019. Risk Based Framework Workshop – 16 April 2020. Presentation and Recommendation from MSC Pre-Assessment Workshops – 18 June 2020, 23 July 2020, 27 August 2020, 11 September 2020.		
FIP Coordinator / Improvement Program Project Manager (name, affiliation, and position if applicable):	Improvement Program Project Manager commits to: <ul style="list-style-type: none"> • Serve as the key contact between the CAB and the Applicant Fishery. • Coordinate the implementation of the Improvement Action Plan. • Collate all information necessary for Progress Verification, including compiling the Progress Reports and updating the IAP and BMT as relevant 		

Rosida Idriss (The Happy Seafood Co.)	
Improvement Action Plan developed by (entity, consultant, or person):	Date when this Improvement Action Plan was created:
Rosida Idriss (The Happy Seafood Co.)	2020/21. Last updated. 7 th July 2023 (updated from document: <i>msc-improvement-action-plan-reporting-template-v2_3-EN-2020-01082022</i>).
Summary of the Improvement Action Plan (<i>Provide an overview of the IAP including a summary of the improvements to be made under each Principle. If the IAP has been updated, highlight key changes here.</i>)	
<p>Principle 1: Develop and implement a robust harvest strategy with control rules relevant for the squid species.</p> <p>Principle 2: Collect data or other information available on the effects of the ecosystem structure, habitats, vulnerability and the role of the stock in the food web (e.g., key prey or predator species).</p> <p>Principle 3: Develop a Fisheries Management Strategy or Management Plan for the squid species that includes long and short-term well-defined objectives that are measurable.</p> <p>Chain of Custody/Traceability: System already in place – no risk of mixing or substitution between certified and non-certified products.</p>	
Stakeholder inputs into the Improvement Action Plan (Optional). If the IAP has been updated, include stakeholder updates if relevant.	
<i>Stakeholder description – stakeholder input – year</i>	
References (<i>document/s on which the IAP is based</i>):	
<p>Pre-Assessment Report: Created by bio.inspecta (mandated by q.inspecta) 2020 and produced for MSC-Fish for Good.</p> <p>Scoping Document for Squid: Created by Rai Seafoods Limited, PT. Toba Surimi Industries, IPB University (Indonesia) and Indonesia Ministry of Marine Affairs & Fisheries Department (MMAF) 2020.</p> <p><i>BMT v.3.0 Squid Medan-10102020 (Working Document).xlsx</i></p>	
Date/s of updated versions of this Improvement Action Plan:	<p>Last updated. 7th July 2023 (updated from document: <i>msc-improvement-action-plan-reporting-template-v2_3-EN-2020-01082022</i>).</p> <p>Updated July 2025 to v 4.0 of the IAP template.</p>

1.1 Improvement Action Plan overview by Performance Indicator

Table 2. Improvement Action Plan Overview by Performance Indicator – MSC Fisheries Standard v2.01

Performance Indicator	Action ID and Name	Deadline
1.2.1 – Harvest Strategy	A4 – Harvest strategy and control rule	5 years – completed .
1.2.2 – Harvest control rules and tools	A1 – Undertake research on target stock, its habitat and marine environment. A2 – Stock Assessment (UOA). A3 – Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP). A4 – Harvest strategy and control rule.	5 years – completed .
1.2.3 – Information and monitoring	A2 – Stock Assessment (UOA). A4 – Harvest strategy and control rule.	5 years – completed .
2.3.1 – ETP species outcome	A1 – Undertake research on target stock, its habitat and marine environment.	4 years – completed .
2.5.3 – Ecosystems information	A1 – Undertake research on target stock, its habitat and marine environment.	4 years – completed .
3.1.1 – Legal and customary framework	A3 – Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP). A4 – Harvest strategy and control rule	5 years – completed .
3.1.2 – Consultation, roles and responsibilities	A3 – Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP). A4 – Harvest strategy and control rule.	5 years – completed .
3.2.1 – Fishery specific objectives	A1 – Undertake research on target stock, its habitat and marine environment. A4 – Harvest strategy and control rule.	5 years – completed .

3.2.2 – Decision making processes	A2 – Stock Assessment (UOA). A3 – Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP).	5 years – completed .
3.2.3 – Compliance and enforcement	A3 – Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP). A4 – Harvest strategy and control rule.	5 years – completed .
3.2.4 – Monitoring and management performance evaluation	A2 – Stock Assessment (UOA). A3 – Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP). A4 – Harvest strategy and control rule.	5 years – partially completed (Action ID A4 still ongoing for actual data collection and analysis – post implementation of HS and HCR).

2 Improvement actions and tasks at Performance Indicator and / or Scoring Issue level

Table 2. Performance Indicator Action Plan table for Action A1, undertake research on target stock, its habitat and marine environment, Belawan coastal waters (Malacca strait - FAO 57.1 (IFMA 571)).

Action ID no	A1					
Action name	Undertake research on target stock, its habitat and marine environment.					
Action summary	Undertake research to identify spawning areas, spawning aggregations of the species and size frequency distribution - this information is important to determine whether spatial or temporal closures are required to meet stock management objectives (once defined).					
Performance Indicator(s) and/or Scoring Issue(s)	1.2.2 (Harvest control rules and tools), 2.3.1 (ETP species Outcome), 2.5.3 (Ecosystem information), 3.2.1 (Fishery-specific objectives).					
Deadline	November 2024					
Task No.	Responsible – Action lead	Responsible – Action partners	Resources – Cost	Resources - Time	Deadline	Evidence of implementation
A1-1 <u>Undertake Research for Squid Species and Habitat.</u>	<i>Project lead: IPB and USU University.</i>					
A1-1.1 Set-up dedicated team.	KKP/BRPL/IPB/USU	IPB/USU/PT.Toba	5,000,000	2 Months	Y1/Q1	Setup dedicated team (1) Minutes of meeting. (2) Approved team list.
A1-1.2 Conduct initial desktop research/interviews on squid species, life span, reproduction, spawning area, spawning aggregation, size frequency and migration.	IPB/USU	KKP/BRPL	100,000,000	8 Months + 6 Months	Y2/Q1	Conduct research (1) Squid specie (biology structure, population connectivity, characteristics, food-chain, habitat). (2) Samples taken from 3 GPS coordinates in Belawan sea to determine habitat and migration patterns.

						<ul style="list-style-type: none"> (3) Field study: <ul style="list-style-type: none"> (a) Schedule. (b) Sampling frequency and analysis. (4) Monitoring methods: <ul style="list-style-type: none"> (a) Manual logbook for fishing group members. (b) Electronic logbook for non-fishing group members having vessels GT>10. (c) Electronic logbook training provided by Marine and Fisheries department. (d) Conduct interviews and consultation with fishing community (3 GPS coordinates in Belawan sea). (e) Report - interviews and consultation.
<p>A1-1.3 Data collection and analysis.</p>	IPB/USU	KKP/BRPL	10,000,000	1 Month +12 Months	Y2/Q3	<p><u>Data collection and analysis</u></p> <ul style="list-style-type: none"> (1) Findings from research. (2) Records of sampling and analysis. (3) Records of manual logbook. (4) Records of electronic logbook. (5) Records from field study.
<p>A1-1.4 Create report/working paper on research and findings (profile, risks and issues).</p>	IPB/USU	KKP/BRPL	10,000,000	1 Month +12 Months	Y2/Q4	<p><u>Working paper</u></p> <ul style="list-style-type: none"> (1) Report on squid species, life span, reproduction, spawning area, spawning aggregation, size frequency, seasonality and migration. (2) Report on squid dynamic population (growth, mortality,

						<p>survival, gender, risk, issues, exploitation).</p> <p>(3) Squid mapping – GIS analysis.</p> <p>(a) Breeding and spawning areas.</p> <p>(b) Nursery grounds.</p> <p>(c) Migration patterns.</p> <p>(d) Fishing/catch areas.</p>
<p>A1-2 <u>Undertake Research For ETP.</u></p>	<p><i>Project lead:</i> <i>IPB and USU</i> <i>University.</i></p>					
<p>A1-2.1 Conduct initial desktop research/interviews on ETP and catch method/fishing gear.</p>	<p>IPB/USU</p>	<p>PT.Toba/KKP BLW/NGO</p>	<p>25,000,000</p>	<p>8 Months + 6 Months</p>	<p>Y2/Q1</p>	<p><u>Conduct research</u></p> <p>(1) Research on fishing gears and catch methods associated with any ETP and bycatch in the Belawan area (taken from 3 GPS coordinate points).</p> <p>(2) Field study: (a) Schedule. (b) Sampling frequency and analysis.</p> <p>(3) Monitoring methods on catch per fishing trip: (a) Manual logbook for fishing group members. (b) Electronic logbook for non-fishing group members having vessels GT>10. (c) Electronic logbook training provided by Marine and Fisheries department. (d) Conduct interviews and consultation with fishing</p>

						community (3 GPS coordinates in Belawan sea). (e) Report - interviews and consultation.
A1-2.2 Data collection and analysis.	IPB/USU	KKP/NGO	10,000,000	1 Month + 12 Months	Y2/Q3	Data collection and analysis (1) Findings from research. (2) Records of sampling and analysis. (3) Records of manual logbook. (4) Records of electronic logbook. (5) Records from fieldtrip study.
A1-2.3 Create report/working paper on research and findings (profile, risks and issues).	IPB/USU	NGO	10,000,000	1 Month + 12 Months	Y2/Q4	Working paper (1) Data comprising of squid, ETP and bycatch, including weight/volume ratios for each fishing trip and fishing gear used.
A1-3 <u>Undertake Research on Eco-system.</u>	<i>Project lead: IPB and USU University.</i>					
A1-3.1 Conduct initial desktop research/interviews on eco-system in Belawan and WPP 571 (pollution on land and underwater).	IPB/USU/BLHD	PT. Toba/KKP BLW/NGO	150,000,000	8 Months + 6 Months	Y2/Q1	Conduct research (1) Research on coastal and marine ecosystem affecting squid life (including coastal & marine pollution) in Belawan and WPPRI 571. (2) Analysis of seawater quality in the Belawan area and WPPRI 571(3 GPS coordinate).

						<p>(3) Determine the frequency of seawater analysis (during rainy and dry season).</p> <p>(4) Fieldtrip study: (a) Schedule. (b) Sampling frequency and analysis.</p> <p>(5) Conduct interviews and consultation with fishing community (3 GPS coordinates in Belawan sea).</p> <p>(6) Report - interviews and consultation.</p>
<p>A1-3.2 Data collection and analysis.</p>	IPB/USU	KKP/NGO	10,000,000	1 Month + 12 Months	Y2/Q3	<p><u>Data collection and analysis</u> (1) Findings from research. (2) Records of sampling and analysis. (3) Ecosystem data in the Belawan area and WPPRI 571 (monitor 3 GPS coordinates). (4) Mangroves and coral reef data in the Belawan area and WPPRI 571(3 GPS coordinates). (5) Seawater quality data in Belawan area and WPPRI 571 (3 GPS coordinates).</p>
<p>A1-3.3 Create report/working paper on research and findings (profile, risks and issues).</p>	IPB/USU	NGO	15,000,000	2 Months + 12 Months	Y2/Q4	<p><u>Working paper</u> (1) Ecosystem data and pollution levels (inland, rivers, squid catch landing areas, mining and industrial areas).</p>

						(2) Mapping - GIS analysis (spatial area of mangroves and coral reefs).
A1-4 <u>Actual Data</u>	<i>Project lead:</i> <i>IPB and USU</i> <i>University.</i>					
A1-4.1 Stakeholder consultation and review of findings.	IPB/USU/KKP BLW	PT. Toba/KNM/ NGO	100,000,000	3 Months + 6 Months	Y2/Q4	(1) Schedules /records of meetings and workshops (for working papers A1 – A3). (2) Report - interviews and consultation.
A1-4.2 In-depth data collection on squid species and its life span and migration (mapping), ETP in Belawan and WPP 571, eco-system, challenges, risks, issues and pollution).	KKP	USU	415,000,000	18 Months + 6 Months	Y4/Q2	<u>Actual data</u> (1) Squid Species, habitat, morphology/biological structure, dynamic population and migration. (2) ETP and bycatch by weight/volume ratios for each fishing trip and fishing gear used. (3) Ecosystem data and pollution levels (inland, rivers, squid catch landing areas, mining and industrial areas). (4) Mapping – GIS analysis. (a) Breeding and spawning areas. (b) Nursery grounds. (c) Migration patterns. (d) Fishing/catch areas. (e) Spatial area of mangroves and coral reefs.

Table 3. Performance Indicator Action Plan table for Action A2, stock assessment (UoA), Belawan coastal waters (Malacca strait - FAO 57.1 (IFMA 571)).

Action ID no	A2					
Action name	Stock Assessment (UoA).					
Action summary	Conduct an adequate stock assessment appropriate for the Squid species (e.g., fast growing, short-lived) that identifies areas of uncertainty.					
Performance Indicator(s) and/or Scoring Issue(s)	1.2.2 (Harvest control rules and tools), 1.2.3 (Information and monitoring), 2.3.1 (ETP species Outcome), 2.5.3 (Ecosystem information), 3.2.2 (Decision-making processes), 3.2.4 (Monitoring and management performance evaluation).					
Deadline	May 2025					
Task No.	Responsible – Action lead	Responsible – Action partners	Resources – Cost	Resources - Time	Deadline	Evidence of implementation
A2-1 <u>Collect Squid Data (UoA)</u>	<i>Project lead: BRPL/KKP (Marine Fisheries Research Institute and Fishery Research Centre)</i>					
A2-1.1 Set-up dedicated team.	KKP/BRPL/Rai Seafoods Limited	IPB/USU/PT.Toba	5,000,000	2 Months	Y1/Q1	<u>Setup dedicated team</u> (1) Minutes of meeting. (2) Approved team list.
A2-1.2 Conduct initial desktop research on estimated squid stock (catch record and monitoring in WPP 571).	IPB/USU	KKP/BRPL/PT. Toba	300,000,000	12 Months + 3 Months	Y2/Q1	<u>Conduct research</u> (1) Research on estimated squid stock in Belawan and WPPRI 571. (2) Setup squid enumerators and recording system using electronic recording devices (eBRPL forms).

						<p>(3) Training schedules and records for enumerators (BRPL team).</p> <p>(4) Monitoring methods on catch per fishing trip: (a) Manual logbook for fishing group members. (b) Electronic logbook for non-fishing group members having vessels GT>10. (c) Electronic logbook training provided by Marine and Fisheries department. (d) Conduct interviews and consultation with fishing community (3 GPS coordinates in Belawan sea and WPPRI 571). (e) Report - interviews and consultation.</p>
<p>A2-1.3</p> <p>Data collection and analysis on squid stock, catch method, catch allowance, fishing gear.</p>	KKP/BRPL/Komnaskajiskan	IPB/USU	150,000,000	12 Months - 3 Months	Y2/Q3	<p><u>Data collection and analysis</u></p> <p>(1) Findings from research. (2) Training records. (3) Data on squid catch in Belawan. (4) Data on squid catch in WPPRI 571 (North Sumatra).</p>
<p>A2-1.4</p> <p>IFMA 571 in-depth data collection, research, analysis and create report/working paper on findings (squid stock, habitat, eco-system, catch method, catch allowance, fishing gear, risks and rules).</p>	KKP/BRIN	BRIN	520,000,000	3 Months + 21 Months	Y4/Q4	<p><u>Working paper</u></p> <p>(1) Rollout fish tracker & Deno-lite digital microscopes for fishing community.</p> <p>(2) Implementation of record keeping.</p>

						<p>(3) Monitoring/ records on fishing methods, fishing gears used by fishermen in Belawan and WPPRI 571.</p> <p>(4) Estimated squid stock data.</p> <p>Actual data</p> <p>(1) Stock status in Belawan sea and WPPRI 571.</p> <p>(2) Evaluation and verification of stock status.</p> <p>(3) Stock data consolidation and monitoring.</p> <p>(4) Trend analysis on catch per fishing trip and seasonal influences.</p> <p>(5) Annual stock data creation and processing.</p> <p>(6) Schedules/ records of meetings.</p>
<p>A2-1.5</p> <p>Stakeholder consultation and review of findings.</p>	KKP BLW	PT.Toba/KNM	20,000,000	2 Days	Y3/Q4 & Y4/Q4	<p>(1) Schedules/ records of meetings.</p> <p>(2) Report - interviews and consultation.</p>

Table 4. Performance Indicator Action Plan table for Action A3, develop fisheries management plan (WPP 571) / squid fishery (sub-set of FMP), Belawan coastal waters (Malacca strait - FAO 57.1 (IFMA 571)).

Action ID no	A3					
Action name	Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP).					
Action summary	Develop a Fisheries Management Strategy or management plan for the squid species that includes long and short-term well-defined objectives that are measurable. The Strategy should include clear decision-making processes and a consolidated list of all management arrangement relating to the fishery (e.g., prescribed gear type, reporting requirements).					
Performance Indicator(s) and/or Scoring Issue(s)	1.2.2 (Harvest control rules and tools), 3.1.1 (Legal and/or customary framework), 3.1.2 (Consultation, roles & responsibilities), 3.2.2 (Decision-making processes), 3.2.3 (Compliance & enforcement), 3.2.4 (Monitoring and management performance evaluation).					
Deadline	June 2026					
Task No.	Responsible – Action lead	Responsible – Action partners	Resources – Cost	Resources - Time	Deadline	Evidence of implementation
A3-1 <u>Create Draft Squid Fisheries Management Plan</u>	<i>Project lead: Direktorat PSDI (Directorate of Fishery Resources Centre)</i>					
A3-1.1 Set-up dedicated team.	SDIKKP/BRPL/Rai Seafoods Limited	IPB/USU/PT.Toba	5,000,000	2 Months	Y1/Q1	Setup dedicated team (1) Minutes of meeting. (2) Ministry of Marine Affairs and Fisheries approved FMP team list.
A3-1.2 Conduct desktop study (for squid in Belawan and WPP 571).	SDI	IPB/USU/Rai Seafoods Limited /PT.Toba	15,000,000	6 Months	Y2/Q3	Conduct research (1) Schedule and frequency of field visit and squid data collection with WPPRI 571 agency. (2) Review existing data. (3) Draft squid Fishery Management Plan (sub-set of FMP WPPRI 571 covering HS

						& HCR based on Ministerial Regulation No. 29/2012).
A3-1.4 Create report/working paper and findings (profile, issues, risks and management).				3 Months	Y3/Q2	Working paper (1) Update draft Squid Fishery Management Plan consisting of scope, fishery status, strategy, goals, objectives and assessment program.
A3-2 <u>Develop Squid Fisheries Management Plan</u>	<i>Project lead: Direktorat PSDI (Directorate of Fishery Resources Centre)</i>					
A3-2.1 Create a Plan based on A3-1.	KKP	BRIN/USU	5,000,000	12 Months	Y4/Q2	FMP creation (1) Set-up squid advisory body at regional and national level based on Fisheries Law No. 45/2009 and sanctions listed in article 100. (2) Creation of Squid Fishery management Plan.
A3-2.2 Stakeholders review /consultation 1.	KKP/PPS BLW	PT.Toba/KNM/KKP WPP 571/DKP SUMUT	30,000,000	1 Month	Y4/Q3	(1) Schedule of meetings with internal and external stakeholders in WPP 571. (2) Records and minutes of meetings.
A3-2.3 Re-issue revised Plan to Stakeholders.	KKP/PPS BLW	BRIN/USU	5,000,000	3 Months	Y4/Q4	(1) Re-issue revised squid Fishery Management Plan to internal and external stakeholders in WPP 571.

<p>A3-2.4 Stakeholders review/ consultation 2.</p>	<p>KKP/PPS BLW/BRIN/USU</p>	<p>PT.Toba/KNM/KKP WPP 571/DKP SUMUT</p>	<p>30,000,000</p>	<p>1 Month</p>	<p>Y4/Q4</p>	<p>(1) Schedule of meetings with internal and external stakeholders in WPP 571. (2) Records and minutes of meetings.</p>
<p>A3-2.5 Roll-out/implement new Plan to Stakeholders.</p>	<p>KKP/PPS BLW</p>			<p>3 Months</p>	<p>Y5/Q1</p>	<p>(1) Issue and roll-out revised squid Fishery Management Plan. (2) Set-up squid Fishery communication forum at province level (North Sumatra) or at local level (squid Fisheries Association).</p>

Table 5. Performance Indicator Action Plan table for Action A4, develop harvest strategy and harvest control rule, Belawan coastal waters (Malacca strait - FAO 57.1 (IFMA 571)).

Action ID no	A4					
Action name	Develop harvest strategy and harvest control rule.					
Action summary	Develop and implement a robust harvest strategy with harvest control rules relevant for the Squid species.					
Performance Indicator(s) and/or Scoring Issue(s)	1.2.1 (Harvest Strategy), 1.2.2 (Harvest control rules and tools), 1.2.3 (Information and monitoring), 3.1.1 (Legal and/or customary framework), 3.1.2 (Consultation, roles & responsibilities), 3.2.1 (Fishery-specific objectives), 3.2.3 (Compliance & enforcement), 3.2.4 (Monitoring and management performance evaluation).					
Deadline	June 2026					
Task No.	Responsible – Action lead	Responsible – Action partners	Resources – Cost	Resources - Time	Deadline	Evidence of implementation
A4-1 <u>Create Draft Squid Harvest Strategy and Harvest Control Rule</u>	<i>Project lead: Direktorat PSDI (Directorate of Fishery Resources Centre)</i>					
A4-1.1 Set-up dedicated team.	KKP/BRPL/Rai Seafoods Limited	IPB/USU/PT.Toba	5,000,000	2 Months	Y1/Q1	Setup dedicated team (1) Minutes of meeting. (2) Ministry of Marine Affairs and Fisheries approved HS and HCR team list.
A4-1.2 Conduct desktop research and field study.	KKP/BRPL	IPB/USU	200,000,000	8 Months + 12 Months	Y2/Q3	Conduct research (1) Schedule and frequency of field visit and squid data collection with WPPRI 571 agency. (2) Review existing data and legislation on Fisheries Harvest Strategy and Control rule. (3) Draft squid

						HS and HCR based on Directorate General decree No. 17 and Indicator CPUE/SPR in WPPRI 571 (Catch per unit effort /Spawning potential ratio).
A4-1.3 Data collection on UoC/UoA and analysis.	KKP/BRPL/PT.Toba/WPP 571	IPB/USU	75,000,000	6 Months + 9 Months	Y2/Q3	<p>Data collection and analysis</p> <p>(1) Findings from research.</p> <p>(2) Data Squid Species, habitat, morphology/biological structure, dynamic population and migration.</p> <p>(3) Data Mapping – GIS analysis. (a) Breeding and spawning areas. (b) Nursery grounds. (c) Migration patterns. (d) Fishing/catch areas. (e) Spatial area of mangroves and coral reefs.</p> <p>(4) Stock status in Belawan sea and WPPRI 571.</p> <p>(5) Data catch method and fishing gear used in Belawan and WPPRI 571 and risks/issues.</p>
A4-1.4 Create report/working paper on research and findings (profile, issues, risks, control and all catch methods and frequency of species analysis – A1-1, A1-2, A1-3).	IPB/USU	KKP BLW	5,000,000	3 Months + 9 Months	Y2/Q4	<p>Working paper:</p> <p>(1) Draft Squid HS and HCR.</p> <p>(2) 5-year projection.</p>
A4-1.5	KKP/BRPL/IPB	PT.Toba/KNM	20,000,000		Y2/Q4	(1) Schedule of meetings (public pre-consultation and public consultation).

Stakeholder consultation.				1 Month + 12 Months		(2) Records and minutes of meetings.
A4-2 <u>Develop Squid Harvest Strategy and Harvest Control Rule</u>	<i>Project lead: Direktorat PSDI (Directorate of Fishery Resources Centre)</i>					
A4-2.1 Create Squid Harvest Strategy and Harvest Control Rule based on A4-1.	KKP	BRIN/USU	5,000,000	12 Months + 12 Months	Y4/Q2	Squid HS and HCR creation (1) Set-up squid advisory body at regional and national level based on Fisheries Law No. 45/2009 and sanctions listed in article 100. (2) Creation of Squid HS and HCR.
A4-2.2 Stakeholders review /consultation 1.	KKP/PPS BLW/BRIN/USU	PT.Toba/KNM/KKP WPP 571/DKP SUMUT	30,000,000	1 Month	Y4/Q3	(1) Schedule of meetings with internal and external stakeholders in WPP 571. (2) Records and minutes of meetings.
A4-2.3 Re-issue revised Squid Harvest Strategy and Harvest Control Rule to Stakeholders.	KKP/PPS BLW/BRIN/USU	PT.Toba/KNM/KKP WPP 571/DKP SUMUT	5,000,000	3 Months	Y4/Q4	1) Re-issue revised squid HS and HCR to internal and external stakeholders in WPP 571.
A3-2.4 Stakeholders review/ consultation 2.	KKP/PPS BLW/BRIN/USU	PT.Toba/KNM/KKP WPP 571/DKP SUMUT	30,000,000	1 Month	Y4/Q4	(1) Schedule of meetings with internal and external stakeholders in WPP 571. (2) Records and minutes of meetings.

A4-3 <u>Post Implementation</u>	<i>Project lead: Direktorat PSDI (Directorate of Fishery Resources Centre)</i>					
A4-3.1 Actual data collection and analysis.	KKP BLW, PSDKP (Marine and Fisheries Resources Department)/BRIN	USU/PT.Toba/ /KNM/PPS BLW/ DKP SUMUT	150,000,000	12 Months	Y5/Q4	Monitoring and Evaluation (1) Monitor level of compliance against squid HS and HCR. (2) Squid advisory body to monitor squid HS and HCR. (3) Outcome and feedback.

3 Summary of changes to Improvement Action Plan deadlines

Table 6. Summary of Changes to Improvement Action Timelines

Action ID, Name and UoA(s)	Original deadline	Revised deadline <i>(only to be completed if a revised IAP is produced and action deadlines change)</i>	Justification for revised deadline <i>(only to be completed if deadline has been revised. If exceptional circumstances apply, please note these here)</i>
A4-3.1 (formally Action ID A4-4.1 in previous version of IAP) - Actual data collection and analysis, Belawan coastal waters (Malacca strait - FAO 57.1 (IFMA 571)).	September – November 2025 (Y5/Q2)	March – May 2026 (Y5/Q4)	The delay in KKP reviewing the draft FMP and HS and HCR (originally planned in 2024) resulted in the deadline date for this Action ID to be pushed back – please refer to new timeline below.

Medan Squid Fisheries IAP Timeline (YEARS 3 - 5)

ACTION ID	DETAIL TASK	2023 - 2024 (Year 3)				2024 - 2025 (Year 4)				2025 - 2026 (Year 5)			
		Q1 (Jun-Aug)	Q2 (Sep-Nov)	Q3 (Dec-Feb)	Q4 (Mar-May)	Q1 (Jun-Aug)	Q2 (Sep-Nov)	Q3 (Dec-Feb)	Q4 (Mar-May)	Q1 (Jun-Aug)	Q2 (Sep-Nov)	Q3 (Dec-Feb)	Q4 (Mar-May)
A1	Undertake research on target stock, its habitat and marine environment												
A1-4	Actual data												
A1-4.2	In-depth data collection on squid species and its life span and migration (mapping), ETP in Belawan and WPP 571, eco-system, challenges, risks, issues and pollution) <i>Note: Data obtained from Pelagic Data System devices installed on small boats and field trip visits re Article 11 and 28 - UoA/UoC Squid fishing patterns/grounds and the creation of a quota system for small scale fisheries with local Government agencies.</i>					Completion Date							
A2	Stock Assessment (UoA)												
A2-1	Collect Squid Data (UoA)												
A2-1.4	IFMA 571 in-depth data collection, research, analysis and create report/working paper on findings (squid stock, habitat, eco-system, catch method, catch allowance, fishing gear, risks and rules) <i>Note: Data obtained from Pelagic Data System devices installed on small boats and field trip visits re Article 11 and 28 - UoA/UoC Squid fishing patterns/grounds and the creation of a quota system for small scale fisheries with local Government agencies.</i>									Completion Date			
A2-1.5	Stakeholder consultation and review of findings <i>Note: Workshops</i>					Completion Date				Completion Date			
A3	Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP)												
A3-1	Create Draft Squid Fisheries Management Plan												
A3-1.4	Create report/working paper and findings (profile, issues, risks and management).	Completion Date											
A3-2	Develop Squid Fisheries Management Plan												
A3-2.1	Create a Plan based on A3-1					Completion Date							
A3-2.2	Stakeholders review/consultation 1					Completion Date				Completion Date			
A3-2.3	Re-issue revised Plan to Stakeholders									Completion Date			
A3-2.4	Stakeholders review/consultation 2									Completion Date			
A3-2.5	Roll-out/implement new Plan to Stakeholders									Completion Date			
A4	Develop Harvest Strategy and Control Rule												
A4-2	Develop Squid Harvest Strategy And Control Rule												
A4-2.1	Create Squid Harvest Strategy and Control Rule based on A4-1					Completion Date							
A4-2.2	Stakeholders review/consultation 1					Completion Date				Completion Date			
A4-2.3	Re-issue revised Squid Harvest Strategy and Control Rule to Stakeholders									Completion Date			
A4-2.4	Stakeholders review/consultation 2									Completion Date			
A4-3	Post Implementation												
A4-3.1	Actual data collection and analysis									Completion Date			
	Annual ITM Progress Verification Report - bio.inspecta (mandated by q.inspecta) <i>Note: Y5/Q3 verification may not be required</i>					ITM Progress				ITM Progress			

4 Progress verification schedule

The improvement Program Project Manager should complete this table to summarise the anticipated progress verification schedule. An Improvement Program fishery is subject to regular progress verification. The Improvement Program Project Manager should align progress verification dates with the deadlines of actions and ensure that the progress verification schedule is such that the duration between consecutive Progress Verification Reports being uploaded to the MSC database by the CAB does not exceed 2 years.

For each progress verification, please provide a list of the improvement actions that are due to be implemented by the date of the progress verification and provide a list of the Performance Indicators which are projected to have improved draft scoring ranges as a result of the completed improvement actions. Each progress verification should verify improvements on at least one Action.

For fisheries with an IAP longer than 2 years, the Improvement Program Project Manager should schedule a minimum of one onsite progress verification around the midway mark of the Improvement Program duration. The CAB may decide to conduct additional onsite progress verification site visits. This table should propose whether an onsite or offsite progress verification is needed and the CAB shall make the final decision on which is most appropriate.

Table 7. Progress Verification Schedule

Progress verification	Proposed date (DD/MM/YYYY)	Onsite or offsite?	Improvement actions to be verified (List action IDs, name and UoAs)	Performance Indicators with improved draft scoring range
1	January 2022	Offsite		
2	January 2023	Offsite		
3	January 2024	Offsite	A1-1.4, A1-2.3, A1-3.3, A1-4.1, A4-1.4, A4-1.5, A3-1.4	3.2.1
4	23 rd – 24 th October 2025	Onsite	A1-4.2, A2-1.4, A2-1.5, A3-1.4, A3-2.1, A3-2.2, A3-2.3, A3-2.4, A3-2.5, A4-2.1, A4-2.2, A4-2.3, A4-2.4	1.2.1, 1.2.2, 1.2.3, 3.2.1, 3.2.2, 3.2.3, 3.2.4
5				

5 Performance Indicator draft score changes (Benchmarking and Tracking Tool)

Please copy and paste the tables from the Benchmarking and Tracking Tool (BMT) here. Where multiple UoAs are considered please clearly specify how each BMT table relates to each UoA.

Principle	Component	Performance Indicator	Pre-Assessment Year 0	Actual Year 1	Actual Year 2	Actual Year 3	Actual Year 4	Actual Year 5	Expected Year 1	Expected Year 2	Expected Year 3	Expected Year 4	Expected Year 5
1	Outcome	1.1.1 Stock status	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		1.1.2 Stock rebuilding	---	---	---	---	---	---	---	---	---	---	---
	Management	1.2.1 Harvest Strategy	<60	<60	<60	<60	---	---	<60	<60	<60	60-79	≥80
		1.2.2 Harvest control rules and tools	<60	<60	<60	<60	---	---	<60	<60	<60	60-79	≥80
		1.2.3 Information and monitoring	<60	<60	<60	60-79	---	---	<60	<60	<60	60-79	≥80
		1.2.4 Assessment of stock status	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	
2	Primary species	2.1.1 Outcome	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.1.2 Management	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.1.3 Information	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
	Secondary species	2.2.1 Outcome	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.2.2 Management	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.2.3 Information	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
	ETP species	2.3.1 Outcome	60-79	60-79	60-79	≥80	---	---	60-79	60-79	60-79	≥80	≥80
		2.3.2 Management	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.3.3 Information	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
	Habitats	2.4.1 Outcome	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.4.2 Management	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
		2.4.3 Information	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
	Ecosystem	2.5.1 Outcome	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
2.5.2 Management		≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80	
2.5.3 Information		60-79	60-79	60-79	≥80	---	---	60-79	60-79	60-79	≥80	≥80	
3	Governance and Policy	3.1.1 Legal and customary framework	60-79	60-79	60-79	≥80	---	---	60-79	60-79	60-79	60-79	≥80
		3.1.2 Consultation, roles and responsibilities	60-79	60-79	60-79	≥80	---	---	60-79	60-79	60-79	60-79	≥80
		3.1.3 Long term objectives	≥80	≥80	≥80	≥80	---	---	≥80	≥80	≥80	≥80	≥80
	Fishery specific management system	3.2.1 Fishery specific objectives	<60	<60	<60	<60	---	---	<60	<60	60-79	60-79	≥80
		3.2.2 Decision making processes	<60	<60	<60	60-79	---	---	<60	<60	<60	60-79	≥80
		3.2.3 Compliance and enforcement	<60	<60	<60	<60	---	---	<60	<60	<60	60-79	≥80
		3.2.4 Management performance evaluation	<60	<60	<60	60-79	---	---	<60	<60	<60	60-79	≥80
Total number of PIs equal to or greater than 80			16	16	16	20		16	16	16	18	27	
Total number of PIs 60-79			4	4	4	3		4	4	5	9		
Total number of PIs less than 60			7	7	7	4		7	7	6			
Overall BMT Index			0.67	0.67	0.67	0.80		0.67	0.67	0.69	0.83	1.00	

6 Traceability Improvement Actions (optional)

The use of the traceability improvement actions section is **optional** and traceability improvement actions will not be part of the MSC Improvement Program progress verification and progress determination.

For MSC Improvement Product Eligibility, and any future MSC full assessment, the fishery client is required to consider the tracking, tracing, and segregation systems within the fishery and how these systems will allow any products sold as “MSC Improvement Product” and eventually MSC certified, to be traced back to the individual Unit of Assessment (UoA) for the Improvement Program, or Unit of Certification (UoC) once the fishery is MSC certified. This includes a description of the factors that may lead to risks of non-Improvement Program/ non-certified seafood being mixed with “MSC Improvement products” prior to entering Chain of Custody as set out in the MSC Improvement Program Requirements and Guidance v3.0 Section 4) and the MSC Fisheries Certification Process (FCP v.2.3, 7.5.9, FCP v3.1, 7.5.10).

It is useful to consider the presence of potential traceability risks within the Unit of Assessment (UoA) in relation to other catches handled by the UoA, and what implications it might have for those fishers that are interested in gaining Improvement Program Chain of Custody eligibility and eventual MSC certification.

For each traceability risk factor, the Project Manager should provide a description of the relevant actions that could be taken to mitigate the risks identified. Some risk factors may link to actions identified against specific parts of the Fisheries Standard (e.g., P3 – Effective Management).

Table 8. Overview of traceability improvement action plan

Traceability risk/traceability gap	Action ID and Name	Deadline
Traceability systems do not track and trace to individual UoA.	N/A - Traceability system in place for individual UoA.	
Appropriate records that demonstrate traceability are not maintained	N/A - Traceability records are in place and maintained (Depot > Factory > Customer).	
Movement of fish and fish product between harvest and landing is not known.	N/A - Traceability records are in place and maintained (Depot > Factory > Customer).	
Movement of fish and fish products between landing and the first sale/ change of product legal ownership is not known.	N/A - Traceability records are in place and maintained (Depot > Factory > Customer).	
Process of segregation is not known / there is no segregation of fish and fish product at critical tracking events.	N/A - Depot and factory only accept raw materials from approved fishing group members (full segregation at Depot and Factory).	

Traceability risk/traceability gap	Action ID and Name	Deadline
Lack of key data elements (the data or documents to identify the UoA such as species, catch area, gear, vessel, harvest date).	N/A - All data from catching landing through to final product prior to shipment are in place.	
Missing information on traceability systems (Relevant monitoring, oversight or regulatory controls which assure the traceability to each individual UoA)	N/A - Traceability records are in place and maintained (Depot > Factory > Customer).	
Fishery uses gears that are not part of the UoA.	N/A - Only handline and squid jigs are in operation and no other fishing gears.	
Vessels in the UoA also fish outside the UoA geographic area.	N/A - Small fishing boats (< 1GT) do not fish outside the UoA.	
Vessels from outside the UoA and/or client group member fish on the same stock.	N/A – No vessels outside the UoA. Fishing group members fish 12-15 miles off the north-east coast of Medan.	
Fishery (client group members) handles Improvement Program (non-certified) product at the same time as MSC certified and/ or other non-certified products during any of the activities covered by the UoA.	N/A – Full segregation at Depot and Factory.	
Transshipment occurs within the fishery.	N/A – No transshipment.	
Other risks of mixing or substitution between the Improvement Program UoA(s) and other MSC-certified and/or non-certified product.	N/A - Depot and factory only accept raw materials from approved fishing group members (full segregation at Depot and Factory).	

7 Template information and copyright

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Delete the table below.

Table 9. Template Version Control

Version	Date of publication	Document name	Description of amendment
1.0	07/10/2009	msc-fishery-improvement-action-plan-template.xlsx	– N/A – new document
1.0	2013	msc-fishery-improvement-action-plan-overview-template.docx	– N/A – new document
1.0	22/11/2013	Fisheries Improvement Action Plan Template.docx	– N/A – new document
2.0	30/09/2019	ITM Fisheries Improvement Action Plan Template.docx	– Combination of v1.0 overview and reporting templates in single document, specifically for ITM
2.1	23/07/2020	MSC Fisheries Improvement Action Plan Template.docx	<ul style="list-style-type: none"> – Template updated to be applicable to all FIPs not just ITM. – Contact email changed from standards@msc.org to fisheries@msc.org – BMT hyperlink updated. – Introduction and Overview updated – Version tracker added. – Added additional scheme document table.
2.2	25/02/2021	msc-fishery-improvement-action-plan-template-v2.2-2021.docx	<ul style="list-style-type: none"> – Some edits to Introduction and modified guidance below. – Added fields for Date of Action Plan creation and updates. – Moved version tracker and scheme document table to end of document. – Edit to note in Table 2 relating to PI 1.1.1(a) – Added example draft scoring ranges with coloured fill to tables 4a, b, c. – Other minor edits to stakeholder action plan section – Added Traceability action plan section.
3.0	01/05/2023	MSC Fishery Improvement Action Plan Reporting Template v3.0.docx	– Updated to align with MSC ITM Program Requirements and Guidance – Pilot v2.0 and Fisheries Certification Process 2.3/3.0. Performance indicators for MSC Fisheries Standard v3.0 added.

Version	Date of publication	Document name	Description of amendment
4.0	29/10/2024	MSC Fishery Improvement Action Plan Reporting Template v4.0.docx	– Updated to align with MSC Improvement Program Requirements and Guidance v3.0, Fisheries Standard v3.1 and traceability has been added.

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