

Indonesia Medan squid handline fishery

MSC Improvement Program Progress Verification Report

Conformity Assessment Body (CAB)	bio.inspecta (mandated by q.inspecta)
MSC Improvement Program Fishery	Indonesia Medan squid handline
MSC Improvement Program start date	23/12/2020
MSC Fisheries Standard Version applied	v2.01
Improvement Program Project Manager	Rosida Idriss/Azher Idriss
Assessment type	4 th MSC Improvement Program Progress Verification
Report Date	13/11/2025

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1 Report overview

This is the fourth and final verification of progress (VoP) against the fishery action plan (up to and including year 5). While all actions have been completed except for A4-4.1 which is ongoing data collection and analysis to inform the harvest strategy, all of the Performance indicators were expected to score >80. All indicators have now achieved a score of 60-79 or greater, however further work is required for Principles 1 and 3 to ensure an average of >80 is achieved for each Principle. Because the actual BMT index is less than the expected BMT index, the fishery has made inadequate progress (see IP requirements clause 3.3.6b).

It should be noted that the expected year 5 Performance indicators score of >80 was not achieved, primarily due to disruptions associated with the COVID-19 pandemic and changes within relevant government departments at the beginning and during the project life cycle. These factors significantly constrained progress on the development and implementation of the Fisheries Management Plan (FMP) and the Harvest Strategy and Harvest Control Rule (HS&HCR). In response, bio.inspecta has applied exceptional circumstances to account for the delays in data collection and subsequent analysis that were beyond the project's control. Consequently, the action plan timeline has been extended by a further 12 months, to December 2026 (Year 6).

The onsite VoP held on 23rd and 24th October 2025 provided an opportunity to interview fishers about current practices and review traceability aspects including an inspection of the local depot and the processing factory. This information is summarised below.

Fishing activities

In every week, fishers fish a maximum of 4 days, they fish 2 days per week during Ramadan and have two weeks off after Ramadan. Fishing also varies between the seasons with less fishing during the rain months between August/September through to March/April. Fishers also reported seeing eggs in March/April and many baby squid in May and June. Squid follow the currents and winds from the east or west result in good catches. Climate change has also affected fishing trips by bringing more frequent and severe weather conditions.

Fishers typically leave port at 6pm and travel to the fishing grounds arriving between 9pm and 11pm. They fish for a few hours and return between 5am and 6am. The boat carries 2 or 3 people on board with 1 or 2 people fishing at a time with one handline each. Each handline has 3 jigs of different sizes with the largest and heaviest jig at the bottom, a middle size jig and a size 4 jig at the surface. They don't use jigs smaller than a size 4 to ensure very small squid are not caught. They also use ten 50 watt battery operated lights per boat to attract the squid. Squid are placed directly into a large ice box. On landing, catch is transported in the ice boxes to the local depot (approx. 50 metres up the street), the catch is sorted and weighed, and the logbooks are filled out.

The depth of the water is approximately 20 metres but they fish the top half and never touch the sea floor. The gear is highly selective and no other gear is carried onboard the boats. Fishers reported lost gear is very rare with an estimated 1 jig per boat per year lost.

Fishers move around the fishing grounds on an approximate one-month rotation ie they will return to the same fishing spot a month later. Fishers are spread over the entire fishing ground and lighting from larger vessels are reported to reduce their catch. Every vessel has GPS, the coordinates of which are given to the FIP coordinator and collated. There is one year worth of GPS data collated so far.

The only bycatch reported is cuttlefish with one or two being caught per trip per boat. The inspected catch verified this. There are no interactions with any other species.

All boats are marked with the name and registration number. The boat registration papers state the permitted gear type and FMA area where fishing can occur. Fishers confirmed that they have been inspected by compliance personnel at sea (gear inspections) and at the large port but none of the fishing members have received a sanction.

The fishing group meet regularly, often once per week. They also talk with other squid fishers outside the group and share information. A larger meeting with the fishing members is held every three months to discuss fishery issues, have a briefing on the SoPs and raise any grievances. There is also a What's app group for information and issues raised during the in between months. At least one meeting a year is held at the North Sumatra fisheries office for all fishery stakeholders. The Happy Seafood Co. and PT Toba Surimi Industries pay the fishing group members to attend this meeting and participate.

1.1 Unit of Assessment (UoA)

Table 1. Unit of Assessment (UoA) from Pre-Assessment Report

UoA 1	Description
Target Stock	<i>Uroteuthis</i> spp stock
Geographical area	Within 12 nautical miles offshore north-east of Medan, in the Malacca Strait, WPP or FMA 571, FAO area 57.1
Fishing gear type(s) and, if relevant, vessel type(s)	Handline (with squid jigs) with vessels 1 GT. 98 registered vessels in the UoA.
Client group (optional)	The Happy Seafood Co and PT Toba Surimi Industries approved Fishing Group (RNPH)

During the site visit for this verification, it was confirmed that fishing only takes place within 12 nautical miles from the coastline. The small vessels of 1 GT travel approximately 4km/hour and typically travel for 3 hours to reach the fishing ground (approx. 12 km or approx. 10 nm). The geographical area for the UoA has been updated accordingly.

1.2 Progress verification summary

Table 2 Entry and Progress Verification summary

Event	Date (actual/planned date)	Onsite/ Offsite	Name/s of CAB and assessor/s
Pre-Assessment Report	02/06/2020	Onsite	bio.inspecta Pty Ltd, with Dr Sabine Daume
Eligibility verification	23/12/2020	Offsite	bio.inspecta Pty Ltd, with Dr Sabine Daume and Sascha Brand-Gardner
1 st Progress Verification	19/01/2022	Offsite	bio.inspecta Pty Ltd, with Dr Sabine Daume
2 nd Progress Verification	22/02/2023	Offsite	bio.inspecta Pty Ltd, with Dr Sabine Daume
3 rd Progress Verification	08/02/2024	Offsite	bio.inspecta Pty Ltd, with Sascha Brand-Gardner
4 th Progress Verification	23-24/10/2025	Onsite	bio.inspecta Pty Ltd, with Sascha Brand-Gardner and Dr Klaas Hartmann (remote)

1.3 Record of progress verification decisions

Table 3. Progress verification determination

Verification/decision point	Determination by CAB
1 st Progress Verification	<i>Adequate</i>
2 nd Progress Verification	<i>Adequate</i>
3 rd Progress Verification	<i>Adequate</i>
4 th Progress Verification	<i>Inadequate</i>
Fishery withdrawn from MSC Improvement Program?	<i>No</i>
Date of withdrawal	<i>DD/MM/YYYY</i>

2 Progress Verification

2.1 Overall progress status

Table 4. Progress verification status summary

	1st progress verification	2nd progress verification	3rd progress verification	4th progress verification
Type of progress verification	<i>Offsite</i>	<i>Offsite</i>	<i>Offsite</i>	<i>Onsite</i>
Justification for type of verification	Covid-19 travel restrictions prohibited undertaking onsite inspections in 2021	No PIs were due to be closed out this year and updates can be reviewed remotely.	Progress and evidence can be verified remotely.	VoP with stakeholders
Improvement Program Progress Report received from Project Manager and verified?	Yes	Yes	Yes	Yes
Were any stakeholders consulted during progress verification?	<i>No</i>	<i>No</i>	<i>No</i>	Yes
Does the fishery continue to meet the scope requirements of the MSC Fisheries Standard as per the relevant version of the MSC Fisheries Standard and Fisheries Certification Process. (See Section 2.1 of MSC Improvement Program Requirements and Guidance v3.0)?	Yes	Yes	Yes	Yes
Does/do the Unit(s) of Assessment (UoAs) meet(s) the MSC requirements outlined in the relevant version of the MSC Fisheries Certification Process?	Yes	Yes	Yes	Yes
Number of PIs completed in total (ie. PIs where all improvement actions and tasks have been implemented and final target draft scoring range has been achieved).	0	0	4	0

	1st progress verification	2nd progress verification	3rd progress verification	4th progress verification
Do exceptional circumstances apply?	No	No	No	Yes
If exceptional circumstances apply, specify to which PIs they are applicable?				1.2.1, 1.2.2, 1.2.3 and 3.2.4.
Updated Improvement Action Plan received and verified? (If IAP not updated state N/A)	N/A	Yes	N/A	Yes using new IAP template and updating actions
Improvement Action Plan to be completed within 5 years from the Improvement Program start date?	Yes	Yes	Yes	Yes
Updated BMT received and verified? (confirm for all UoAs. If BMT not updated state N/A)	Yes	Yes	Yes	Yes
Next scheduled Progress Verification				Dec 2026

Table 5. Overall progress determination summary

	1st progress verification	2nd progress verification	3rd progress verification	4th progress verification
Number of PIs with an improved draft scoring range due (including PIs that were behind target in a previous verification)	0	0	3	7
PIs due a draft score change (including PIs that were behind target in a previous verification)	<i>e.g. PI 1.2.3, PI 2.2.2, PI 3.2.2</i>		3.2.1	1.2.1, 1.2.2, 1.2.3, 3.2.1, 3.2.2, 3.2.3, 3.2.4
Number of PIs due a draft score change that achieved score change (i.e. on target)			0	0
Number of PIs due a draft score change that did not achieve score change (i.e. behind target)			1	7
Actual BMT index	0.67 (no change to scores)	0.67 (no change to scores)	0.80	0.87
Expected BMT index	0.67	0.67	0.69	1.00

Overall progress determination	<i>Adequate</i>	<i>Adequate</i>	<i>Adequate</i>	<i>Inadequate</i>
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2.2 Verification of key updates or changes in the fishery

In this section, verify information about key updates or changes in the fishery. This should reflect all UoAs. Where details vary between UoAs please specify. Copy over the table from the Improvement Program Project Manager Progress report and record your verification here.

Table 6. Key updates or changes in the fishery

UoA(s)	Key updates or changes to the UoA, fleet or vessels	References	Is evidence verifiable?
	<ul style="list-style-type: none"> • <i>Legalisation of new fishing group KELOMPOK REZEKI NELAYAN PANAHI HIJAU formally (KNP) – February 2024.</i> • <i>Issuance of Scientific Technical Document (North Sumatra Squid Handline Fishery Belawan - STD 008) – June 2024.</i> • <i>Ministry Decree No. 43 in relation to Port Operational Management - June 2024.</i> • <i>Issuance of the Fisheries Management Plan (FMP) and Harvest Strategy & Harvest Control Rule (HS&HCR). This is a combined document for WPP 571 (North Sumatra only) – June 2025.</i> • <i>Issuance of the Fisheries Management Plan (FMP) and Harvest Strategy & Harvest Control Rule (HS&HCR) Team – June 2025.</i> • <i>Issuance of new vessel list for Fishing group RNPH – July 2025.</i> 		Yes
Principle	Key updates or changes	References	Is evidence verifiable?
Principle 1			
Pre-Assessm	<ul style="list-style-type: none"> • There is no harvest strategy in place. To meet the minimum MSC requirements for this Performance Indicator, a harvest strategy 		

ent Report	<p>designed to control effort on squid across the whole stock will need to be implemented.</p> <ul style="list-style-type: none"> • There is no evidence that the current approach to limiting harvest (80% of estimated biomass) are effective in controlling exploitation across the whole stock. <p>There is information and catch monitoring of the UoC but not across the whole stock (UoA). Landings of squid in FMA 571 and adjacent areas including other gear types are not well reported.</p>		
1st Progress Verification	<ul style="list-style-type: none"> • A dedicated team has now been set-up to facilitate the development and implementation of the squid FIP, which involves key people from the Central and Regional Marine & Fisheries Department (MMAF), IPB University (FPIK IPB), The Fisheries Research Centre (Pusriskan), The Marine Fisheries Research Institute (BRPL), PPS Belawan and PT Toba. Team members have been assigned to a 'sub-team' (A1, A2, A3 & A4) in order to provide expertise in their field and support other team members when required. • Actions A2 (<i>Stock Assessment (UoA)</i>) has now commenced focussing on desktop studies with some initial catch data analysis (see also Actions A1 below). However due to Covid-19 and the travel restrictions enforced in Indonesia, there are likely delays implementing field work. <p>Figure 4 of the 3b working paper shows a significant reduction in landing days and trips since April 2019. Possible causes are bad weather (continuous rain) and covid travel restrictions. However further investigations are required to explain the reduction in landing days and trips.</p>	<p>Document - KKP-SK TIM PENDUKUNG IMPLEMENTASI RENCANA AKSI PERBAIKAN PERIKANAN (Fisheries Improvement Project) CUMI-CUMI SUMUT & MSC-ITM Squid FIP Dedicated Team – 20210608.</p> <p>Document - Scientific Technical Report 3b working paper (<i>work in progress</i>).</p>	Yes
2nd Progress Verification	<ul style="list-style-type: none"> • COVID-19 impacted on the timeline of the Action Plan and as a result, the completion dates of the outstanding actions for Years 1 & 2 have been revised accordingly. • Field trip visits conducted by teams A1 & A2 in May and September 2022 respectively – further trips are planned early 2023. Desktop research on Stock Assessment for the UoC and UoA now complete. The actual data collection and analysis (squid population studies) is currently in progress. Landings of squid in UoC and UoA, including other fleets/vessels and gear types are being observed/monitored and reported. 	<p>Revised Action Plan and Timeline attached.</p> <p>Full details & analysis contained within the attached Scientific Technical Document version 006 (<i>please note this document is written in Bahasa Indonesia</i>).</p> <p>https://peraturan.bpk.go.id/Home/Details/19 0267/permen-kkp-no-22-tahun-2021</p>	Yes

	<ul style="list-style-type: none"> MMAF have issued Regulation No. KP 22 Tahun 2021 ttg Penyusunan Rencana Pengelolaan Perikanan (<i>The development of Fisheries Management Plan and the institutions who will manage the fisheries in the waters of the Republic of Indonesia</i>). In June 2022, MMAF issued a new version/format of the Catch Certificate capturing additional data for wild caught fisheries. This was a joint collaboration between MMAF and the Indonesian North Sumatra Squid – Handline FIP. The new version/format of the Catch Certificate has now been rolled-out to all FMAs in Indonesia. <p>1) MMAF have developed and rolled-out web portals from data harvested:</p> <ol style="list-style-type: none"> Central Information for Fisheries Management Area. MMAF fishery resources. Total Allowable Catch (<i>potential estimation</i>). 	<p>See attached new Catch Certificate.</p> <p>https://integrasi.djpt.kkp.go.id/pinwpp</p> <p>The data currently held on this portal for FAO 57.1 is from 2010 – 2021 (<i>Squid search parameters: Jenis Usaha = 'TANGKAP LAUT', Jenis Ikan = 'CUMI-CUMI', Tahun = 'Select all', Provinsi = 'SUMATERA UTARA'</i>) https://statistik.kkp.go.id/home.php?m=prod_ikan_prov&i=2#panel-footer</p> <p>The data on this portal is available by selecting a fishery type for a given fishery management area (<i>Squid search parameters: Kepmen = 'KEPMEN KP 19/2022', Jenis WPP = 'WPP 571' Kelompok Ikan = 'CUMI CUMI'</i>) https://statistik.kkp.go.id/home.php?m=sdi&i=210#panel-footer</p>	
3rd Progress Verification	<p>The MSC-ITM Squid FIP has been split into 2 phases, namely;</p> <p><u>Phase 1 (ITM Years 1 - 3 inclusive)</u></p> <p>This phase of the project was primarily focused on Actions A1 (<i>Undertake research on target stock, its habitat and marine environment</i>) and A2 (<i>Stock Assessment (UoA)</i>) having the following outcomes:</p> <ul style="list-style-type: none"> All A1 sub-actions are now complete with the exception of sub-actions A1-4.2, which has been rolled-over into Phase 2. All A2 sub-actions are now complete with the exception of sub-actions A2-1.4 and A2-1.5, which have been rolled-over into Phase 2. The creation of Scientific Technical Document (STD) 007. The creation of Squid Profile (draft copy) 001. The publication of Ecosystem Approach to Fisheries Management (EAFM) - Evaluation of Small-Scale Squid Fish Management with an Ecosystem Approach in Medan Waters, North Sumatra. MSC capacity building training level 1 held in Medan, June 2023. Annual National FIP stakeholder meeting held in Jakarta, June 2023. Annual Squid FIP stakeholder meeting held in Medan, October 2023. 	<p>North Sumatra Squid Handline Fishery IFMA 571 - Working Paper 007_Bahasa 06_2023.pdf</p> <p>North Sumatra Squid Handline Fishery IFMA 571 - Squid Profile - Draft Copy 001_Bahasa 06_2023.pdf</p> <p>45714-Article Text-232756-1-10-20230810.pdf (https://doi.org/10.29244/jmf.v14i1.45714)</p> <p>20230607_Laporan Pelatihan Pengembangan Kapasitas Tingkat 1 MSC_Perusahaan Perikanan_PPS Belawan.pdf</p> <p>Signed Undangan Pertemuan Koordinasi Fisheries Improvement Program (FIP) Nasional, Selasa 13 Juni 2023.pdf.</p>	Yes

<ul style="list-style-type: none"> The draft version of the Fisheries Management Plan (FMA 571) / Squid Fishery (Sub- Set of FMP) is not currently in the public domain and is planned to be reviewed during 2024. MMAF letter enclosed dated 21/07/2023 - Management Plan Regarding Squid Fishery - 21072023.pdf. A management and monitoring system is in place. Komnas KAJISKAN (The National Commission for the Study of Fish Resources), is an independent and non-structural institution that reports to the Minister of Maritime Affairs and Fisheries https://peraturan.bpk.go.id/Details/190262/permen-kkp-no-20-tahun-2021 Total Allowable Catch (potential estimation). The data on this portal is available by selecting a fishery type for a given fishery management area (<i>Squid search parameters: Kepmen = 'KEPMEN KP 19/2022', Jenis WPP = 'WPP 571' Kelompok Ikan = 'CUMI-CUMI'</i>) https://statistik.kkp.go.id/home.php?m=sdi&i=210#panel-footer <p><u>Phase 2 (ITM Years 4 - 5 inclusive)</u></p> <p>This phase of the project is to implement and improve the fishing practices using the outcomes from phase 1.</p> <p>The following has/will be actioned:</p> <ul style="list-style-type: none"> Set-up of a new Squid FIP dedicated team. Development of a quota mechanism/system for small squid fishers in the UoC/UoA based on Ministerial Decree KP 11 2023 and KP 28 2023. Capturing fishing data using a tracking device installed on small fishing boats (note: in October 2023, the project rolled-out a 'pilot' to capture data manually by using new forms issued to KNM members by the BRIN expert team. The project is currently evaluating 2 vendors (<i>Pelagic Data Systems and ONWA</i>) for the supply of the tracking devices - full roll-out to KNM members will be in 2024/2025). Continued development and improvement of the Fisheries Management Plan (FMP) and Harvest Strategy and Harvest Control Rule policies for squid with KKP and other agencies. Develop a GIS Map using data captured from new forms A & B and tracking devices. 	<p>FIP Squid Medan Agenda_Attendance_30102023.pdf (DKP Medan Instagram link)</p> <p>Management Plan Regarding Squid Fishery - 21072023.pdf</p> <p>MSC-ITM Squid FIP Implementation_Improvements Road Map Phase 2 (2023-2026) V1.3.pdf</p> <p>PIT - B.133/PPS.BLW/TU.210/I/2024.pdf; PIT - DKPSU 15-12-2023.pdf</p> <p>PP Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>Permen KP No 28 Tahun 2023 Ttg Peraturan Pelaksanaan Peraturan Pemerintah Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>SQUID FISHERY SAMPLING - FORM A - 10.2023 (specimen).pdf</p> <p>SQUID FISHERY OBSERVER - FORM B - 11.2023 (specimen).pdf</p> <p>Pelagic Data Systems Spec Sheet.pdf</p> <p>ONWA KP-32 EN.pdf</p>	
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	<ul style="list-style-type: none"> Conduct on-going research/analysis - field trip visits (data collection/analysis monitoring). Participating in Annual National FIP stakeholder meetings. <p>Annual Squid FIP stakeholder meetings.</p>		
4th Progress Verification	<ul style="list-style-type: none"> Actions A1 and A2 completed – Scientific Technical Document 008. With the completion of Actions A1 and A2, a draft Fisheries Management Plan (WPP 571) / Squid Fishery (sub-set of FMP) and Harvest Strategy and Control Rule was submitted to the Ministry of Maritime Affairs and Fisheries (Kementerian Kelautan dan Perikanan, KKP) in July 2024 (note: the draft documents were not in the public domain). A letter of acknowledgement from KKP was issued in August 2024. <p>Annual Squid FIP stakeholder meeting held in Medan, July 2024.</p>	<p>North Sumatra Squid Handline Fishery Belawan - STD 008_Final.pdf</p> <p>Esign Surat Perikanan Cumi (Kajian dan Naskah Pengelolaan Cumi).pdf</p> <p>Notulensi Pertemuan FIP Cumi_11072024 (final).pdf, DUKUNGAN RISET 1107_2024 FINALE.pdf, MSC 101_Juli 2024.pdf</p>	Yes
Principle 2			
Pre-Assessment Report	<ul style="list-style-type: none"> Interviews with fishers indicated that interactions with ETP species are very low when it comes to sea snakes and none existing with species groups like marine mammals, turtles or sea birds due to the type and nature of the fishery. It is highly unlikely that any direct effect on ETP species would hinder their recovery. Indirect effects on ETP species which may occur by removing squid out of the food web have been considered. Species like sea birds and sharks prey on squid and may be effected, therefore the SG80 is not met. <p>There is ongoing monitoring of the UoC however other squid fisheries are not monitored and given the small-scale nature of this fishery any increase in risk level may not be detected.</p>		
1st Progress Verification	<ul style="list-style-type: none"> Actions A1 (<i>Undertake research on target stock, its habitat and marine environment</i>) has now commenced. Progress is being made, however given the challenges of Covid-19 and the travel restrictions enforced in Indonesia, there are likely delays in training field staff and field work. 	Document - Scientific Technical Report (<i>work in progress</i>).	Yes

	<ul style="list-style-type: none"> Action A1, sub-team A1 (FPIK IPB) are currently conducting biological research on squid, their habitat and marine environment in Medan coastal waters. Data is currently being collected through desktop research, current catch-data, archived catch-data, squid sampling, lab analysis and regular internal stakeholder meetings. <p>Action A2, sub-team A2 (Pusriskan & BRPL) are currently conducting squid stock assessment in Medan coastal waters (UoC) and WPPNRI/FMA 571 (UoA). Data is currently being collected through desktop research, logbooks, current catch-data, archived catch-data, squid sampling, interviews with fishing community and regular internal stakeholder meetings.</p>		
2nd Progress Verification	<ul style="list-style-type: none"> COVID-19 impacted on the timeline of the Action Plan and as a result, the completion dates of the outstanding actions for Years 1 & 2 have been revised accordingly. Field trip visits conducted by teams A1 & A2 in May and September 2022 respectively – further trips are planned early 2023. <p>The actual data collection and analysis for the squid species and habitat, ETP and eco- system (<i>sub-actions A1-1.3, A1-2.2, A1-3.2 and A2-1.3.</i>) is currently in progress (desktop research already completed).</p> <p>These activities are key in supporting sub-action A1-4.2, which has commenced ahead of plan and is a more detailed/granular activity (<i>please note, we are at the preliminary stage and trying to ascertain the best approach in obtaining the ‘actual data’ based on the dataset already obtained from sub-actions A1-1.2, A1-2.1, A1-3.1 and A2-1.2, and the data collection and analysis for sub-actions A1-1.3, A2-2.2, A1-3.2 and A2-1.3. This activity is planned to be completed by Y3/Q4.</i>)</p> <ul style="list-style-type: none"> Squid landings in UoC and UoA, including other fleets/vessels and gear types are being observed/monitored and reported. The squid handline fishing gear used in the UoC is categorized as having a relatively low impact on the eco-system. From the desktop research, capture fisheries statistics for FAO 571 showed that there are several species categorized as having an ETP status (e.g., hammerhead shark and giant shovelnose ray). Interviews conducted 	<p>Revised Action Plan and Timeline attached.</p> <p>Full details & analysis contained within the attached Scientific Technical Document version 006 (<i>please note this document is written in Bahasa Indonesia</i>).</p> <p>Pages 2, 15 – 41.</p> <p>Pages 20 – 28.</p> <p>Pages 39 – 41.</p>	Yes

	<p>with the squid fishermen who have fished for more than 10 years, confirmed there were no secondary catch of the above ETP species.</p> <p>The outcome of the eco-system study shows the type of eco-system in FAO 571 consists of mangroves, sea grass and coral reefs.</p>		
3rd Progress Verification	<p>The MSC-ITM Squid FIP has been split into 2 phases, namely;</p> <p><u>Phase 1 (ITM Years 1 - 3 inclusive)</u></p> <p>This phase of the project was primarily focused on Actions A1 (<i>Undertake research on target stock, its habitat and marine environment</i>) and A2 (<i>Stock Assessment (UoA)</i>) having the following outcomes:</p> <ul style="list-style-type: none"> All A1 sub-actions are now complete with the exception of sub-actions A1-4.2, which has been rolled-over into Phase 2. All A2 sub-actions are now complete with the exception of sub-actions A2-1.4 and A2-1.5, which have been rolled-over into Phase 2. The creation of Scientific Technical Document (STD) 007. The creation of Squid Profile (draft copy) 001. The publication of Ecosystem Approach to Fisheries Management (EAFM) - Evaluation of Small-Scale Squid Fish Management with an Ecosystem Approach in Medan Waters, North Sumatra. MSC capacity building training level 1 held in Medan, June 2023. Annual National FIP stakeholder meeting held in Jakarta, June 2023. Annual Squid FIP stakeholder meeting held in Medan, October 2023. BRIN report on Sea Snakes and the role of squid in the food web. <p><u>Phase 2 (ITM Years 4 - 5 inclusive)</u></p> <p>This phase of the project is to implement and improve the fishing practices using the outcomes from phase 1.</p> <p>The following has/will be actioned:</p> <ul style="list-style-type: none"> Set-up of a new Squid FIP dedicated team. Development of a quota mechanism/system for small squid fishers in the UoC/UoA based on Ministerial Decree KP 11 2023 and KP 28 2023. 	<p>North Sumatra Squid Handline Fishery IFMA 571 - Working Paper 007_Bahasa 06_2023.pdf</p> <p>North Sumatra Squid Handline Fishery IFMA 571 - Squid Profile - Draft Copy 001_Bahasa 06_2023.pdf</p> <p>45714-Article Text-232756-1-10-20230810.pdf (https://doi.org/10.29244/jmf.v14i1.45714)</p> <p>20230607_Laporan Pelatihan Pengembangan Kapasitas Tingkat 1 MSC_Perusahaan Perikanan_PPS Belawan.pdf</p> <p>Signed Undangan Pertemuan Koordinasi Fisheries Improvement Program (FIP) Nasional, Selasa 13 Juni 2023.pdf.</p> <p>FIP Squid Medan Agenda_Attendance_30102023.pdf (DKP Medan Instagram link)</p> <p>STD008-Ular Laut dan Peranan Cumi Dalam Rantai Pakan (draft copy)-19122023.pdf</p> <p>MSC-ITM Squid FIP Implementation_Improvements Road Map Phase 2 (2023-2026) V1.3.pdf</p> <p>PIT - B.133/PPS.BLW/TU.210/I/2024.pdf; PIT - DKPSU 15-12-2023.pdf</p> <p>PP Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p>	Yes

	<ul style="list-style-type: none"> • Capturing fishing data using a tracking device installed on small fishing boats (note: in October 2023, the project rolled-out a 'pilot' to capture data manually by using new forms issued to KNM members by the BRIN expert team. The project is currently evaluating 2 vendors (<i>Pelagic Data Systems and ONWA</i>) for the supply of the tracking devices - full roll-out to KNM members will be in 2024/2025). • Continued development and improvement of the Fisheries Management Plan (FMP) and Harvest Strategy and Harvest Control Rule policies for squid with KKP and other agencies. • Develop a GIS Map using data captured from new forms A & B and tracking devices. • Conduct on-going research/analysis - field trip visits (data collection/analysis monitoring). • Participating in Annual National FIP stakeholder meetings. <p>Annual Squid FIP stakeholder meetings.</p>	<p>Permen KP No 28 Tahun 2023 Ttg Peraturan Pelaksanaan Peraturan Pemerintah Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>SQUID FISHERY SAMPLING - FORM A - 10.2023 (specimen).pdf</p> <p>SQUID FISHERY OBSERVER - FORM B - 11.2023 (specimen).pdf</p> <p>Pelagic Data Systems Spec Sheet.pdf</p> <p>ONWA KP-32 EN.pdf</p>	
4th Progress Verification	Actions A1 and A2 completed – Scientific Technical Document 008.	<p><i>Insert links to references or documents as necessary</i></p> <p>North Sumatra Squid Handline Fishery Belawan - STD 008_Final.pdf</p>	Yes
Principle 3			
Pre-Assessment Report	<ul style="list-style-type: none"> • There is a legal framework in place. With the transfer of authority to the provincial level, it assumes a facilitation and coordination role to guide these authorities in the management of their respective jurisdictions, consistent with national laws. However, it is not clear whether the management system is organised and there is effective cooperation at this level. The recent regulation 33 of 2019 establishing the Fishery Management Councils will operationalise the activities of the FMAs, and should assist with coordination between the provinces, however this has not been implemented. • Functions, roles and responsibilities are explicitly defined in regulations, however interviews and observations during the site visit indicated that the legislation is not well understood by Government or Industry and the legislation remains largely unimplemented. 		

	<p>Stakeholder meetings are relatively regular, however it is unclear whether the information is used to support the management system.</p> <ul style="list-style-type: none"> • While a broad TAC for squid in FMA 571 may be considered an objective designed to achieve a Principle 1 outcome for this fishery, there is no fishery specific objective relating to principle 2. In addition, the FMA 571 management plan has broad objectives consistent with Principles 1 and 2, some of which are measurable, however, they are not specific to the squid fishery. • While there are some decision-making processes in place, there is no evidence of these processes responding to serious issues in this fishery or using the precautionary approach. There is a paucity of information on this fishery's performance and management. • Monitoring, control and surveillance systems exist, although it is unclear as to whether sanctions to deal with non-compliance are applied. There was evidence of systematic non-compliance in that all of the registered vessels in the UoC are 1 GT. However, Regulation 71/2016 only permits the use of hand operated squid angling from vessels > 5 GT. <p>The stock assessment is internally reviewed by MMAF's Committee for stock assessment; however, it is not fishery specific (rather all squid species across the entire FMA). Few external reviews have been conducted but are also not fishery specific.</p>		
1st Progress Verification	<ul style="list-style-type: none"> • The implementation of electronic fishing logbooks for fishing vessels above 5GT at PPS Belawan (note: The Government are commitment in tackling Illegal, Unreported and Unregulated (IUU) fishing). <p>Squid FIP presentation and development matrix (note: National Fisheries Improvement Program Coordination Meeting - Government support for the Squid FIP).</p>	<p>Document - 2-year timeline</p> <p>Document - Article of implementation of electronic fishing logbook</p> <p>Document - National FIP event.</p>	Yes
2nd Progress Verification	<ul style="list-style-type: none"> • COVID-19 impacted on the timeline of the Action Plan and as a result, the completion dates of the outstanding actions for Years 1 & 2 have been revised accordingly. • Field trip visits conducted by teams A1 & A2 in May and September 2022 respectively. This also included visits to the provincial and regional Fisheries Management Authorities to gain further understanding of the legal framework, roles, functions, 	<p>Revised Action Plan and Timeline attached.</p> <p>Scientific Technical Document Version 006, pages 45 – 46.</p>	Yes

	<p>responsibilities, fishery control, verification and validation of squid fisheries data, issues in FAO 571.</p> <p>1) UPP WPPNRI 571 and Belawan Port Authority (PPS) are working in collaboration with the Fishery Management and Control Agency (PSDKP), who are responsible for supervising the marine and fishery resources in Belawan and includes the prevention of IUU fishing. PSDKP are working with local industries and PT Toba Surimi Industries have signed-up to the agreement.</p> <p>https://sippn.menpan.go.id/images/article/temp/BA%20Penetapan%20Standar%20Pelayan%20Stasiun%20PSDKP%20Belawan%20Tahun%202021-2022-20211206094538.pdf</p> <p>2) MMAF has a program for Belawan Port Authority (PPS) to become an 'eco-fishing' port.</p> <p>3) Belawan Port Authority (PPS) are working in collaboration with the Indonesian traditional fishermen association (KNTI) to maintain livelihoods, marine environment and the future interest of traditional fishermen.</p> <ul style="list-style-type: none"> MMAF have developed a Fishery Resources Management Policy (2020 – 2024). https://kkp.go.id/an-component/media/upload-gambar-pendukung/SKPT/Sebatik/Materi%20Observer%20Tegal%202020/01.%20Kebijakan%20Pengelolaan%20SDI%20TA%202020-2024.pdf MMAF has a Central Information for Fisheries Management Area web portal, which facilitates the activities of the FMAs, and to assist with co-ordination between the provinces (<i>please note, the inclusion of FMA 571 (squid) is still work-in-progress</i>). <p>1) Structure of Organisation</p> <p>2) Task and Function.</p> <ul style="list-style-type: none"> MMAF have issued Regulation No. KP 22 Tahun 2021 ttg Penusunan Rencana Pengelolaan Perikanan (<i>The development of</i> 	<p>PPS organogram https://kkp.go.id/djpt/ppsbelawan/page/3962-struktur-organisasi</p> <p>PSDKP organogram https://kkp.go.id/djpsdkp/stasiunbelawan/pag e/2191-struktur-organisasi</p> <p>https://www.antaraneews.com/berita/2718265 /kkp-akselerasi-pembangunan-pps-belawan- jadi-eco-fishing-port</p> <p>https://kkp.go.id/djpt/ppsbelawan/artikel/45363-rembuk-nelayan-sumatera-utara</p> <p>https://integrasi.djpt.kkp.go.id/login_baru/</p> <p>https://integrasi.djpt.kkp.go.id/pinwpp/strukt ur-organisasi</p> <p>https://integrasi.djpt.kkp.go.id/pinwpp/tugas- dan-fungsi</p> <p>MSC presentation.</p>	
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	<p><i>Fisheries Management Plan and the institutions who will manage the fisheries in the waters of the Republic of Indonesia).</i></p> <p>MSC Indonesia Workshop - this workshop was held in May 2022 by MSC Indonesia (Anthony) to create further awareness to the Medan Fishing Group (KNM) and local Government Authorities on MSC principles, sustainable fisheries and the importance in capturing data.</p>		
<p>3rd Progress Verification</p>	<p>This principle relates to Actions A3 (<i>Develop Fisheries Management Plan (WPP 571) / Squid Fishery (Sub-Set of FMP)</i>) and A4 (<i>Develop Harvest Strategy and Control Rule</i>) – all sub-actions are wholly owned and managed by ‘national’ and ‘local’ Government agencies. Every effort has been made to manage the deadlines against the IAP and some sub-actions may be completed ahead of plan or slip due to unforeseen circumstances outside project control.</p> <p>The documents produced in Actions A1 and A2 (phase 1), were used as reference points for the following:</p> <ul style="list-style-type: none"> • Issuance of revised version of Ministerial Decree KP No. 11 2023 in March 2023 (MEASURED FISHING POLICY). • Issuance of new Ministerial Decree KP No. 28 2023 in September 2023 (REGULATIONS FOR IMPLEMENTING GOVERNMENT REGULATION NUMBER 11 OF 2023 CONCERNING MEASURED FISHING). • The Ministry of Maritime Affairs and Fisheries (Kementerian Kelautan dan Perikanan, KKP) rollout and implementation of Ministerial Decree KP 34 2023 (AMENDMENT TO THE REGULATION OF THE MINISTER OF MARINE AND FISHERIES NUMBER 20 OF 2021 CONCERNING THE NATIONAL COMMISSION FOR THE ASSESSMENT OF FISH RESOURCES, released in October 2023). • The Ministry of Maritime Affairs and Fisheries (Kementerian Kelautan dan Perikanan, KKP) Ministerial Decree KP 177 2023 (THE NATIONAL COMMISSION TEAM FOR THE ASSESSMENT OF FISH RESOURCES, released in November 2023). • Annual National FIP stakeholder meeting held in Jakarta, June 2023. This meeting discussed the progress and challenges of all FIP's in Indonesia, which also included the Squid FIP. MMAF to review the Fisheries Management Plan (FMP) and Harvest Strategy and Harvest Control Rule policies for squid in 2024 (<i>please note: the draft</i> 	<p>PP Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>Permen KP No 28 Tahun 2023 Ttg Peraturan Pelaksanaan Peraturan Pemerintah Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>-2023permenkp034_1698803534.pdf</p> <p>PERMEN-KP 20 Tahun 2021 ttg Komnas Kajiskan.pdf</p> <p>-2023kepmenkp177_1699537159.pdf</p> <p>Signed Undangan Pertemuan Koordinasi Fisheries Improvement Program (FIP) Nasional, Selasa 13 Juni 2023.pdf.</p> <p>Management Plan Regarding Squid Fishery - 21072023.pdf.</p> <p>20231206085731RUMUSAN-LPP-WPP-2023-KPP-57101_a.pdf</p> <p>SE MKP tentang Relaksasi Kebijakan pada Masa Transisi Pelaksanaan Penangkapan Ikan Terukur Fix.pdf</p> <p>20230607_Laporan Pelatihan Pengembangan Kapasitas Tingkat 1 MSC_Perusahaan Perikanan_PPS Belawan.pdf</p>	<p>Yes</p>

	<p><i>version of the Fisheries Management Plan (FMA 571) / Squid Fishery (Sub- Set of FMP) and interim draft version of the Harvest Strategy and Harvest Control Rule are not currently in the public domain.)</i></p> <ul style="list-style-type: none"> • Fisheries Management Area Co-ordination meeting held in Medan on 02/11/2023 – this meeting was for central and local Government bodies and Institutions to implement KP 11 and KP 28 in FAO 57.1 (link to meeting summary and presentation). • Government end of year letter issued to all national and local institutions on 04/12/2023 informing the measurable fishing policies will be postponed until 31/12/2024, whilst logistics are being setup to successfully implement KP 11 and KP 28 (link to Government official letter). • MSC capacity building training level 1 held in Medan, June 2023. • UPP WPPNRI 571 and Belawan Port Authority (PPS) are working in collaboration with the Fishery Management and Control Agency (PSDKP), who are responsible for supervising the marine and fishery resources in Belawan. This includes decision-making processes, monitoring, control and surveillance. PSDKP Control Monitoring Station is located in Belawan and supervises 3 (three) Monitoring Units and 10 (ten) Monitoring Areas in the Aceh, Sumatera Utara and Riau provinces (link to PSDKP and link to Wikipedia). • Total Allowable Catch (potential estimation). The data on this portal is available by selecting a fishery type for a given fishery management area link to portal). • Development of a quota mechanism/system for small squid fishers in the UoC/UoA based on Ministerial Decree KP 11 2023 and KP 28 2023. <p>BRIN report on Sea Snakes and the role of squid in the food web.</p>	<p>PSDKP Belawan Station Org Structure.jpg PSDKP Sumatran Offices.jpg</p> <p>PIT - B.133/PPS.BLW/TU.210/I/2024.pdf; PIT - DKPSU 15-12-2023.pdf</p> <p>STD008-Ular Laut dan Peranan Cumi Dalam Rantai Pakan (draft copy)-19122023.pdf</p>	
4th Progress Verification	<ul style="list-style-type: none"> • With the completion of Actions A1 and A2, a draft Fisheries Management Plan (WPP 571) / Squid Fishery (sub-set of FMP) and Harvest Strategy and Control Rule was submitted to the Ministry of Maritime Affairs and Fisheries (Kementerian Kelautan dan Perikanan, KKP) in July 2024 (note: the draft documents were not in the public domain at the time). A letter of acknowledgement from KKP was issued in August 2024. • Action A3-2.1 (create a plan based on A3-1) completed. • Action A3-2.2 (Stakeholders review/consultation 1) completed. 	<p>Esign Surat Perikanan Cumi (Kajian dan Naskah Pengelolaan Cumi).pdf</p> <p>202411 Notula pertemuan PIT DKP PemprovSU.pdf</p> <p>Lampiran 1_Rumusan Koordinasi Program Perbaikan Perikanan Nasional 2024 25112024.pdf</p>	Yes

	<ul style="list-style-type: none"> a) Squid FIP stakeholder meeting held in Medan on the 25/11/2024. b) National FIP meeting held in Jakarta on the 25/11/2024. c) Letter issued by the Ministry of Maritime Affairs and Fisheries (Kementerian Kelautan dan Perikanan, KKP) on the 02/12/2024 informing transitioning to the measured fishing policy for all WPP RI based on Presidential decree number 59/2024 - national long term development plan 2025 – 2045. d) Squid FIP stakeholder / KKP meeting held in Jakarta on the 09/12/2024 reviewing the draft Fisheries Management Plan (WPP 571) / Squid Fishery (sub-set of FMP) and Harvest Strategy and Control Rule (note: the draft documents were not in the public domain at the time). e) Squid FIP stakeholder / provincial government meeting held in Medan on the 19/12/2024 to discuss outcome of point (d) above. f) Letter issued by KKP on the 08/01/2025 to the Governor of North Sumatra. g) Squid FIP stakeholder / provincial government meeting held in Medan on the 14/01/2025 to discuss outcome of point (f) above. h) KKP draft Fisheries Management Plan (WPP 571) / Squid Fishery (sub-set of FMP) and Harvest Strategy and Control Rule. • Action A3 (sub-actions A3-2.3, A3-2.4, A3-2-5) completed. <ul style="list-style-type: none"> a) Consultation 1 meeting held in Medan on the 25/02/2025. b) Consultation 2 meeting held in Medan on the 23/04/2025. c) Issuance of the Fisheries Management Plan (FMP) and Harvest Strategy & Control Rule (HS&HCR) - this is a combined document for WPP 571 (North Sumatra) released on the 10/06/2025. • Action A4-2.1 (create squid harvest strategy and control rule based on A4-1) completed. • Action A4-2.2 (Stakeholders review/consultation 1) completed. Please refer to evidence/documentation for bullet point Action A3-2.2 above. 	<p>20241211_Surat Pengantar Hasil Pertemuan Koordinasi FIP Nasional.pdf</p> <p>signed_Penyampaian_Surat_Edaran_Menteri_Kelautan_dan_Perikanan_20241202205441.pdf, UU Nomor 59 Tahun 2024.pdf</p> <p>202412 Notula pertemuan PSDI.pdf</p> <p>202412 Notula Pertemuan Diskusi Rencana Pembuatan Pergub.pdf</p> <p>20250106_Esign Surat Perikanan Cumi R2.pdf</p> <p>202501 Notula pertemuan penyusunan rancangan PerGubSU tentang RAPPB.pdf</p> <p>Rancangan PerGubRAP31B_Initial Draft.pdf</p> <p>202502 Notula pertemuan lanjutan penyusunan rancangan PerGubSU tentang RAPPB.pdf</p> <p>202504 Notula rencana aksi pengelolaan perikanan berkelanjutan (HS dan HCR).pdf</p> <p>SK Rencana Pengelolaan Perikanan Cumi yang Berkelanjutan.pdf</p> <p>SK Tim Teknis Rencana Pengelolaan.pdf</p> <p>-2024kepmenkp043_1717671706.pdf</p> <p>2024.08.06 Dir KP_Sosialisasi Probis Level 3 Pelabuhan Pangkalan (FINAL).pdf</p> <p>PP Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>Permen KP No 28 Tahun 2023 Ttg Peraturan Pelaksanaan Peraturan Pemerintah Nomor 11 Tahun 2023 tentang Penangkapan Ikan Terukur.pdf</p> <p>20250623_SRT_Signed Penyusunan RKT UPP WPPNRI RKT 571 & 711.pdf</p> <p>TSI Boat List 10022025.pdf</p>	
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- Action A4 (sub-actions A4-2.3, A4-2-4) completed. Please refer to evidence/documentation for bullet point Action A3 above.
- The Marine and Fisheries Department (KKP) is currently rolling out Ministry Decree No. 43 dated 5th of June 2024 in relation to Port Operational Management – this relates to the following Ministerial Decrees:
 - a) Ministerial Decree KP 11 2023 (**MEASURED FISHING POLICY, revised version released in March 2023**).
 - b) Ministerial Decree KP 28 2023 (**REGULATIONS FOR IMPLEMENTING GOVERNMENT REGULATION NUMBER 11 OF 2023 CONCERNING MEASURED FISHING**), released in September 2023.

Data sets accumulated (under Action A4-3.1 - *actual data collection and analysis*) will be used to develop a new quota system to maintain fish stock levels – data will be collected over time and the Squid FIP is unable to advise when a new quota system will be implemented.

- The Fisheries Management Plan Harvest Strategy and Control Rule has been issued at the North Sumatra Province level (UoA) and will be rolled out across the remaining two provinces in WPP 571 (Aceh and Riau) and other WPPs over time.
 - a) Meeting held by KKP Jakarta on the 24/06/2025 to review FMP and HS&HCR for WPP 571 and WPP 711 to include sub-set for squid fishery.

Latest fishing vessel list for fishing group RNPH.

2.3 Verification of progress of improvement actions for PIs due a draft score change at the current progress verification

This section should include only information on improvement actions for PIs that are due a change in draft scoring range at the current progress verification.

Copy over the table of improvement actions and tasks to be verified and evidence of implementation from the Improvement Program Project Manager Progress Report and complete the last column.

With regards to exceptional circumstances, if the CAB has already approved an application for exceptional circumstances for any of the PIs that are due a draft score change at the current progress verification, please select the 'exceptional circumstances' progress status for the appropriate actions and tasks. If the CAB has not already approved 'exceptional circumstances', and the project manager has applied for 'exceptional circumstances' status using the progress report, please provide the determination and revised deadline for the actions and tasks in the tables below. Please provide a rationale for this determination, provided that it does not contain sensitive information.

Table 7. Verification of progress of actions for PIs due a draft score change at the current progress verification

Actions and tasks to be verified	Progress status	Supporting evidence	Is progress status verified?
A1-4.2	Implemented	Technical document v008	Yes. Significant research has been undertaken. However some of the information, particularly on stock structure (e.g. migration patterns, habitat and connectivity) is insufficient to meet SG80 (for PI 1.2.3)
A2-1.4 (FMA 571 squid data) A2-1.5 (Consultation)	Implemented	Technical document v008	Yes. Significant work has been undertaken. The technical document was developed over a three year period and established the framework for creating the Fisheries Management Plan (FMP) and the harvest strategy (HS). However, following implementation of the FMP and HS, further work is required to regularly and consistently analyse this data as will be required by the harvest control rule.
A3-1.4 (Draft Mplan) A3-2.1 (Create Mplan) A3-2.2 (Consultation) A3-2.3 (Re-issue revised plan) A3-2.4 (Consultation)	Implemented	Approved Squid Fishery Management Plan and Utilization Strategy in Belawan Regency, North Sumatra	Yes. All actions have been completed. However, some details in the management plan do not meet SG 80.

A3-2.5 (Roll out of plan)			
A4-2.1 (Create HS) A4-2.2 (Consultation) A4-2.3 (Re-issue HS) A4-2.4 (Consultation)	Implemented	Approved Squid Fishery Management Plan and Utilization Strategy in Belawan Regency, North Sumatra	Yes. All actions have been completed. However, some details in the management plan do not meet SG 80.

2.4 Status at Performance Indicator level for PIs due a draft score change at the current progress verification

These tables should reflect all UoAs. Where details differ between UoAs please specify clearly how progress relates to each UoA.

Only include PIs that are included in the Improvement Action Plan and due a change in draft scoring range at this progress verification. Delete rows that are not applicable.

Input progress status as either: On target / Behind target / Exceptional Circumstances; based on the most recent version of the Improvement Action Plan. Any chosen status should be supported by a justification for the decision.

If evidence to support draft score changes cannot be verified, the CAB shall assume that there has been no score change. State in the justification that you are unable to assess status because evidence cannot be verified.

2.4.1 Principle 1 Performance Indicator level score changes and justifications – Fisheries Standard v2.01

Table 8. Progress status of Principle 1 PIs – Fisheries Standard v2.01

Principle 1 – Performance Indicator level score changes and justifications		
1.2.1 – Harvest Strategy	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due
2nd Progress Verification		No score change due
3rd Progress Verification		No score change due. Note that the roll out and implementation of Decrees 11 of 2023 (Measured fishing policy) and 28 of 2023 (Regulations for implementing 11 of 2023) are integral to the development of the Fisheries Management Plan (amended for FMA 571 inclusive of the squid fishery as a sub set) and the harvest strategy (which contains the harvest control rules). Implementation of these have been delayed but MMAF have informed all fishers of the logistics surrounding the transition to this way of managing fisheries. MMAF have provided a letter of support and confirmed that the management plan will be reviewed and amended in 2024. An interim draft version of the Harvest Strategy and Harvest Control Rule has already been created but is not currently publicly available. As this cannot be verified, the score remains the same. <60.
4th Progress Verification	<i>Exceptional circumstances</i>	Score change to ≥ 80 due.

		<p>A harvest strategy has been formalised in the Decree of the Governor of North Sumatra Number 188.4/SK331/v1/2025 established on 10 June 2025. This harvest strategy outlines elements including:</p> <ul style="list-style-type: none"> • Objectives • A decision rule • performance indicators (spawning potential ratio (SPR), CPUE and percentage of catch below the size limit) • SPR reference points • monitoring requirements • input controls, and • output controls. <p>These are key elements of a harvest strategy, however the implementation of many of these elements is at a very early stage and is largely untested. For example:</p> <ul style="list-style-type: none"> • Input controls in the harvest strategy include restrictions on new fishing permits. These have not been previously applied. • Fishing quotas are named as a key measure. It remains unclear how this would be set or implemented. <p>The harvest strategy contains key elements that can be expected to achieve the management objectives and which are likely to work based on their application in other fisheries. Annual monitoring is also planned. As such the SG60 requirements are met. The harvest strategy has only been recently formalised, consequently the ongoing implementation would need to be investigated in close detail in future assessments.</p> <p>Due to the recent introduction of the harvest strategy and limited details of its implementation SG80 is not yet met. The score is increased to 60-79, but is behind target.</p>
1.2.2 – Harvest control rules and tools	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due
2nd Progress Verification		No score change due

3rd Progress Verification		No score change due. As above. Note that the scientific technical document v007 (a working document that is being updated) and the squid profile document continue to consolidate the information (including monitoring) required to inform the development of the harvest control rules. An interim draft version of the Harvest Strategy and Harvest Control Rule has already been created but is not currently publicly available. As this cannot be verified, the score remains the same. <60
4th Progress Verification	<i>Exceptional circumstances</i>	<p>Score change to ≥ 80 due.</p> <p>A harvest strategy has been introduced (see PI 1.2.1). This includes a section on the decision rule (harvest control rule). This section names input and output controls (see PI 1.2.1) and the harvest strategy also names reference points for the key spawning potential ratio (SPR) indicator.</p> <p>It is generally understood that the input and output controls in the harvest strategy will be used to ensure that the SPR indicator remains above the reference level and future TACs are implemented. Measures are also being actively taken to increase adherence to the size limit. Consequently, there is a generally understood HCR in place and the broad range of available tools are expected to be effective in controlling exploitation. This meets the requirements of SG60. In future assessments this would need to be investigated in more detail, in particular given the recent adoption of the harvest strategy.</p> <p>There is no rule linking stock status (e.g. relative to the SPR reference points) to the input and output controls. Consequently, the HCR remains generally understood (SG60 for SI a) rather than being well defined (the SG80 requirement).</p> <p>It is unclear which of the management measures named in the harvest strategy will ultimately be utilised by the HCR. At SG80, for SI c, the requirement is to evaluate only the tools in use. Many of the tools have not been applied or tested (see also PI 1.2.1). Consequently SG80 is not met.</p> <p>The score is increased to 60-79, but is behind target.</p>
1.2.3 – Information and monitoring	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due. <60
2nd Progress Verification		No score change due. <60

<p>3rd Progress Verification</p>	<p><i>Ahead of target</i></p>	<p>No score change due. However, the monitoring system across the stock from all landing areas and gear types is in place using enumerators and logbooks and other field activities. Studies regarding Morphology, DNA analysis, Catch gear, Catch Landing, CPUE for UoC/UoA can be found in Scientific Technical Document version 007 and Squid Profile document draft version 001. All of this information is relevant to the development of the harvest strategy and HCRs. SG 60 is met at this stage, so scoring has increased.</p>
<p>4th Progress Verification</p>	<p><i>Exceptional circumstances</i></p>	<p>Score change to ≥ 80 due.</p> <p>An updated report (technical document version 008) was provided. This provides information on a broad range of aspects including species composition, and fleet structure. Substantial progress has been made, however information on stock structure remains limited creating uncertainty about the appropriate scale of management and stock assessment. Consequently, whilst SI a is met at the SG60 level, it does not yet meet SG80.</p> <p>CPUE data is collected and presented as an indicator. CPUE has not been standardised, however at the site visit it was indicated that some of the factors typically considered for standardisation, such as gear and fishing duration, are consistent through time. Nevertheless, CPUE standardisation is something to consider in future if this is to be used as a key indicator. CPUE reference points have not been established. Spawning potential ratio, including generic reference points, are included in the harvest strategy. Although the HCR is not well defined it appears that these indicators are monitored with sufficient frequency to support the HCR. Consequently, for scoring issue b, SG60 is met. Due to the uncertainty regarding the HCR and the assessment schedule, it is unclear whether the indicators are monitored at a level of accuracy and coverage consistent with the HCR and SG80 is not met for scoring issue b.</p> <p>The stock structure remains uncertainty, as a result the geographic extent of the other fishery removals for which data is required. Consequently SI c does not meet SG80.</p> <p>Overall the scoring range remains unchanged (60-79).</p>

2.4.2 Principle 3 Performance Indicator level score changes and justifications – Fisheries Standard v2.01

Table 9. Progress status of Principle 3 PIs – Fisheries Standard v2.01

Principle 3 – Performance Indicator level score changes and justifications		
3.2.1 – Fishery specific objectives	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due
2nd Progress Verification		No score change due
3rd Progress Verification	<i>Behind target</i>	A score change from < 60 to 60-79 was due for this verification. It is anticipated that fishery specific objectives will be incorporated into the Fisheries Management Plan and/or harvest strategy once amended and developed respectively. Although the implementation of the new regulations around measured fishing (introduction of quota) has been delayed, the MMAF has acknowledged the delay and provided a reason and instructions to fishers. A review of the Fisheries Management Plan to include the squid fishery as a subset has also been delayed and will occur in 2024. Even though there is a draft of both the interim harvest strategy and the management plan, these are not publicly available and so the presence of fishery-specific objectives can not be verified at this time.
4th Progress Verification	<i>Behind target</i>	Decree of the Governor of North Sumatra Number 188.4/SK331/v1/2025 established on 10 June 2025 is the Squid fishery management plan and utilisation strategy in the Belawan Regency in North Sumatra. It contains a fishery specific explicit long term objective to “ensure the sustainability of squid resources in Belawan waters” which is consistent with outcomes expressed by MSC principle 1. The management plan also considers impacts of the fishing activities on ecosystems and the role of squid as both predators and a food source. This may be considered an implicit objective for Principle 2 outcomes. This meets SG 60. Short term operational objectives relevant to Principle 1 are defined including: 1 Increase the spawning potential ratio (SPR) in <i>Uroteuthis squid</i> to reach a minimum of 20%; 2. Increase a minimum of 75% of the total catch of squid that has matured gonads.

		<p>3. Maintaining a profitable yield level for fishermen (yield > 0.5 of the reference yield) calculated based on the CPUE proxy</p> <p>The explicit long term objective above together with the short term operational objectives for principle 1 means that SG 80 is partially met.</p> <p>The management plan also requires the recording and reporting of bycatch (including protected species) and release of any other bycatch. This is not an explicit objective but more a management measure for principle 2 and therefore SG 80 is not fully met.</p> <p>A draft Sustainable Fisheries Management Action Plan Year 2025-2030 for North Sumara was provided to the audit team but is not progressing. It included some aims that related to principle 2 such as eradicating fishing activities that damage the ecosystem as well as mitigation and/or handling of accidental catches of rare, endangered and protected marine biota. It is understood that these components will be included in the Management Plan for FMA 571 once developed. Once implemented, this may help improve the score against this performance indicator.</p>
3.2.2 – Decision making processes	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due
2nd Progress Verification		No score change due
3rd Progress Verification		There is no score change due. However, the increased monitoring and consultation, together with clearly defined service standards and actions for the Belawan PSDKP station monitoring office, provides a framework for decisions to respond to serious issues (and SI b at SG 60 may be met). Information on the fishery’s performance is now available through the Scientific Technical Document v007 and through presentations at the FMA 571 coordination meetings (this meets SG 60 at SI d). There is no evidence of disrespect or defiance of the law in the available documentation so SG 60 may be met for SI e. It is therefore likely that this PI meets 60-79. Finalization of the harvest strategy with harvest control rules and implementation of the measured fishing policy should increase this score.
4th Progress Verification	<i>Behind target</i>	In May 2025, a technical team was established by Decree to oversee the development and monitoring of the squid harvest strategy in Belawan waters. This group is part of the decision making processes

		<p>for management of the fishery. The harvest strategy was approved in June 2025 and contains some decision rules or input and output controls measures. However, it is unclear how the identified indicators (SPR, CPUE and % catch < 13cm) will inform the measures, how these measures are being applied and thus how they will control exploitation. During the site visit, stakeholders confirmed that none of the measures have been implemented apart from some socialisation of the < 13 cm control during the roll out of the harvest strategy. Therefore, these decision rules can not result in measures and strategies to achieve the fishery specific objectives outlined in 3.2.1 above. Importantly, the MSC Fisheries Standard describes 'established' decision-making process (at the SG 80 level) "as a process that can be immediately triggered for fisheries-related issues....." (GSA4.7.2). It is therefore likely that SG 80 is still not met for scoring issue a.</p> <p>Scoring issue b likely remains as meeting SG 60 given that decision making processes have resulted in an approved harvest strategy in response to the squid resource being assessed as fully exploited and strict monitoring is required.</p> <p>There are no examples of the use of the precautionary approach so SG 80 is not met for scoring issue c.</p> <p>Regulations can be provided on request from the North Sumatra MMAF office. Information on the FIP and fishery performance is also available from the Fishery Progress website. It is understood that outcomes from the FMA 571 Council meetings will be published on the Govt portal but what information is included is yet to be verified. SG 80 is not met for scoring issue d at this stage.</p> <p>There is no evidence of any legal challenges or disrespect of the law and therefore SG 80 is likely met for scoring issue e. Overall, this performance indicator likely meets 60-79.</p>
3.2.3 – Compliance and enforcement	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due
2nd Progress Verification		No score change due
3rd Progress Verification		There is no score change due. However, Belawan Port Authority (PPS) are working in collaboration with the Fishery Management and Control Agency (PSDKP), who are responsible for supervising the marine and fishery resources in Belawan. This includes decision-making processes, monitoring, control and

		<p>surveillance. PSDKP Control Monitoring Station is located in Belawan and includes three supervising monitoring units and ten monitoring areas in the Aceh, Sumatera Utara and Riau provinces.</p> <p>An analysis of compliance rates has been conducted on purse seine vessels in FMA 571 but not on smaller scale fisheries and relevant to the UoA. The Maritime Security Strategy and evaluation of the effectiveness of the Fishermen Crossing State Borders is noted and will be useful in informing compliance strategies in the future.</p> <p>While sanctions do exist, Indonesia does not typically resort to sanctions and fines for violations. Any Criminal charges and prosecutions can only take place through police investigation. PSDKP is working with PT Toba Surimi Industries and the KNM fishing members to create awareness on new regulations and cooperating on any IUU activities in Belawan. Nonetheless, sanctions (e.g. confiscation and sinking of IUU vessels) have been applied in other fisheries.</p> <p>Interviews with Government officials regarding the level of compliance and confirmation that regulation 71/2016 has been amended or accommodates vessels < 5 GT to use hand operated squid angling will be required at the next verification of progress before any scoring changes can be verified.</p>
<p>4th Progress Verification</p>	<p><i>Behind target</i></p>	<p>Staff from the Depot conduct regular checks on the fishers vessel and catch. There is GPS on all fishing vessels so fishing location can be verified. Sanctions in the form of financial penalties exist for vessels < 5 GT. For vessels > 5 GT the sanctions are heavier and inspections are conducted when leaving the port and when they return and before they unload the catch. Sanctions have been applied for the larger vessels.</p> <p>During interviews at the site visit, personnel from the MMAF wild capture fisheries unit confirmed that the UoA vessels comply with relevant regulations and are treated differently as small scale fishers (boats < 5 GT). The Head of the Port confirmed that there was a good level of compliance from the fishing group and no concerns were raised. The fishers interviewed stated that they had been inspected at sea and no one was aware that any actions had been applied. The client has ensured that every vessel in the fishing group is registered as a fishing vessel and marked with the name and registration number. Logbooks are completed and submitted as required. Together, fishers are generally thought to comply so SG 60 is met for scoring issue c. There is no evidence however at this stage so SG 80 is not met.</p> <p>During the site visit and through the documentation, there is no evidence of systematic non-compliance. SG 80 is met for scoring issue d.</p> <p>Overall, it is likely that SG 60-79 is met.</p>

3.2.4 – Management performance evaluation	Progress status	Justification
1st Progress Verification	<i>Completed / On target / Behind target / Exceptional circumstances</i>	No score change due
2nd Progress Verification		No score change due
3rd Progress Verification		No score change due. However, fishery performance specifically was reviewed as part of the FMA coordination meeting. The effectiveness of the implementation of MMAF Regulation 39 of 2016 regarding fishermen who cross national borders specifically at Belawan was conducted. An evaluation of small scale squid fish management with an ecosystem approach in Medan waters, North Sumatra was published. These are examples of fishery specific evaluations and reviews and SG 60 is likely met for this PI.
4th Progress Verification	<i>Exceptional circumstances</i>	<p>The management plan has only just been established in June 2025. Evaluation of the data collection will be conducted annually and monitoring continues. There is provision for a review which is to be carried out according to management needs and problems. At the site visit, stakeholders advised that the management plan and harvest strategy will be evaluated at the annual FMA 571 Council meeting to identify any risks or issues but this has not been completed yet. SI a remains at SG 60.</p> <p>A Squid FIP stakeholder / KKP meeting was held in Jakarta on the 09/12/2024 to review the draft Fisheries Management Plan (WPP 571) / Squid Fishery (sub-set of FMP) and Harvest Strategy and Control Rule. A Squid FIP stakeholder / provincial government meeting was held in Medan on the 19/12/2024 to discuss outcome of the review. Internal reviews are being conducted. There is no evidence of occasional external review at this stage so SG 80 is not met for SI b. Overall, the PI remains at 60-79.</p>

3 References

All references used are included in the relevant progress tables above.

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