

## MarinTrust Improver Programme: Milestone Report Template

In this document the applicant should outline the milestones that make up the Fishery Action Plan (FAP) as part of the Fishery Improvement Project (FIP) as aligned to the MarinTrust Assessment criteria. Then during the review, update the relevant information to indicate whether the milestones have been met or not and any progress towards the milestones. This will be verified by the peer reviewers based on evidence submitted by the applicant.

<b>FIP name</b>	Indian Oil sardine and Mackerel – Goa and Maharashtra
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## IP Milestone report

Use the below tables to provide an update on actions in the Fishery Action Plan with links to relevant evidence documents. Additional lines may be added where necessary.

### Example table

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action
M1.1	Provide the original action as outlined in the action plan.	Provide an update on this action since the last report.	Provide any additional updates or information towards completing this action if there are shorter-term milestones.	Provide any outstanding aspects to this action and explain why they are outstanding.	Provide a link to any evidence and/or summarise relevant points for actions or updates.	What is the current status of this action (i.e. complete, pending, ongoing)
M1.2						
Add rows to each table as necessary						

### M – Management Framework and Surveillance, Control and Enforcement

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action
M2.1, M2.3, M2.4	Establish reference points for the sardine stock based on best practice. Based on discussion document - Dr. Shirdhankar from the college of fisheries Ratnagiri suggested that from data available since	Workshop undertaken and report prepared	Workshop has been completed.	Next phase is to talk with agency fishery managers about establishing reference points and harvest control rules	Report sent to MT and loaded on to website (June 2022)	

	1978 an average catch can be calculated using this we and find the trigger points.					
M2.1, M2.3, M2.4	Clarify MCS arrangements in Maharashtra State - VTS rules should be available.	Emails and meetings held to obtain information	Completed		Copy of Letter sent to Assistant Commissioner of Fisheries Maharashtra (Annexure 1 Attached)	
M2.1, M2.3, M2.4	Liaise with government officials over the need for proper resourcing for MCS - Secretary Director of Goa Fisheries department has said that enforcement is his top priority	Emails and meetings held to obtain information	Completed		Copies of Email & Letter sent to Directorate of Fisheries Goa (Annexure 2 & 3 Attached)	
M2.1, M2.3, M2.4	Document MCS activities in both Goa and Maharashtra and provide evidence of enforcement-Each district in Maharashtra has a patrol vessel and there are two in Goa Each district in Maharashtra has a patrol vessel and there are two in Goa	Emails and meetings held to obtain information	Completed		Copy of Letter sent to Assistant Commissioner of Fisheries Maharashtra (Annexure 1 Attached)  Copies of Email & Letter sent to Directorate of Fisheries Goa	

					(Annexure 2 & 3 Attached)	
M2.1, M2.3, M2.4	Document how MCS efforts work towards implementation of National Policy	Emails and meetings held to obtain information	Incomplete	Government has updated the 2017 National Fisheries Policy and comparison will be made with this	Copy of Letter sent to Assistant Commissioner of Fisheries Maharashtra (Annexure 1 Attached)  Copies of Email & Letter sent to Directorate of Fisheries Goa (Annexure 2 & 3 Attached)	

#### A – Category A: Data Collection, Stock Assessment, Harvest Strategy and Stock Status

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action
A1.2, A2.1-A2.5	Data collecting program based on results of workshop. Investigate	Final report completed	Final report completed	Next phase is to discuss ongoing data collection by authorities	Report available (Annexure 4 Attached)	

	alternative data collection approaches if stock assessment cycle cannot be changed by government.					
A1.2, A2.1-A2.5	Draft preliminary stock assessment and seek peer review. Assessment to contain estimate of sustainable yield and assessment of current state versus draft reference points (see next Section)	Final report completed	Final report completed	Peer reviewer identified and his report obtained	Report available ( Annexure 5 Attached )	
A1.2, A2.1-A2.5	Ensure that stock assessment is publicly available	peer review completed	peer review completed	To be uploaded	Peer Review Report (Annexure 5 Attached)	

B – Category B Stock Status

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action

C – Category C Stock Status

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action

D – Impacts On Species Categorised as Vulnerable by D1-D3

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action

### F – Impacts on ETP Species, Impacts on Habitats and Ecosystem Impacts

MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action
<b>F3.1- F3.3</b>	Update and extend current Ecosim with Ecopath (EwE) model for SW India. Include climate change effects and effects of predators such as dolphins	Literature search on EwE models completed	Slightly behind on EwE model	EwE model still to be updated but we have found an existing (old) one that is suitable and currently in discussions with	Copy of Email sent to Director of CMFRI Kochi (Annexure 6 Attached) Literature – peer reviewed papers	

				owner to permit access	(Annexure 7,8,9,10 Attached)	
<b>F3.1-F3.3</b>	Detailed review of literature, including any local projects, that may have researched this area - Dr Shirdhankar from the Ratnagiri college of fisheries will give data to fill the gaps	Visit to College of Fisheries and searched for local projects	Complete – no additional information found			
<b>F3.1-F3.3</b>	Vessel based observer work -CIFT may have some information based on vessel based work looking at dolphin depredation	Literature search on interactions with ETP species (marine mammals) completed Provisional discussions with science provider to undertake EwE update held	Literature review on dolphin interactions has identified some gaps (lack of information)	Information gaps have been followed up with CIFT with no reply  Need to determine next steps	Peer reviewed papers available (Annexure 11,12 Attached)	

**SOCIAL CRITERION**



MT clause (if relevant)	Action in plan	Action update	Progress against milestones	Outstanding actions and rationale	Evidence	Status of action
	Nil					

### Additional Information

The following section highlights any information provided by the fishery in support of this Milestone Report which does not relate directly to any of the Milestones above, but which is relevant to the ongoing monitoring of fishery management status.

There is some media reported information on increases in stock abundance. May be due to reductions in fishing effort due to COVID or cyclical. The upswing in mackerel abundance associated with a decline in sardine abundance has been reported previously in the literature.

### Amended timeline

The following section allows the applicant to explain if there are any amendments to the improvement timelines and provide the reasons and evidence for this.

This will need to be undertaken once the audit results are complete.  
 A review of the plan was conducted earlier this year in response to COVID driven delays