

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). Then during each review, update the relevant year to indicate whether the milestones have been met or not. This will be verified by the peer reviewers (accredited certification body) based on evidence submitted by the applicant.

Fishery Under Verification	Indian oil sardine(<i>Sardinella longiceps</i>) and Indian Mackerel (<i>Rastrelliger kanagurta</i>)
Milestone	Ist yearly check
Date	01/10/2020
Verifier	

Improver Programme Details and Summary of the Milestone Verification Outcome						
Name:	Omega Fishm	eal & Oil P	rivate Limited			
Address	Plot No.G/3, M	1.I.D.C., Mi	rjole, Ratnagiri			
City/state	Maharashtra					
Province/country	<u>INDIA</u>					
Postal code	415639	Phone	2352229072	Fax		
E-mail	omegafishmea	al@gmail.c	om			
Key contact	Mr. Amol Patil					
Verification Body Deta	ails					
Name of Verification Body:						
Assessment Period:						



Scope Details	
Management authority (Country/State)	Government of India; States of Maharashtra & Goa
Main species	Indian oil sardine(<i>Sardinella longiceps</i>) and Indian Mackerel (<i>Rastrelliger kanagurta</i>)
Date of acceptance into MarinTrust IP	October 2019
Original projected IP completion date	
Fishery location	Waters off the States of Goa and Maharashtra, SW India and adjacent Nationally managed waters.
Gear type(s)	Purse seine
Outcome of Assessme	ent
Sections with Milestones	
Milestones not completed to the Fishery Action Plan	
Sections with Critical Milestones	
Critical Milestones not verified	
Recommendation	
Critical Milestones carried over	



TABLE 1 – MARINTRUST FISHERY ASSESSMENT PROGRESS SUMMARY

The table below summarises the initial status of the fishery, the projected Improver Timeline, and the actual changes which have taken place as verified by previous Milestone Reports.

Mari Fishe Asse Secti	nTrust ery ssment on	Initial score	Immediate (6 months)	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Year 5
	Date							
N /1	Projected							
	Actual							
M2	Projected							
IVIZ	Actual							
۸1	Projected							
AI	Actual							
	Projected		By catch management – suggestion that there needs to be specific by catch management arrangement s in place.					
A2	Actual	Completed	Workshop undertaken as per draft FAP. Minutes and copies of presentation s along with the outcomes of the follow up meeting held the day after with the College of Fisheries already submitted. Uses of boat based					



						(Jan 1
			observers			
			were			
			discussed at			
			both the			
			workshop			
			and the			
			meeting.			
			These have			
			been used			
			for research			
			projects in			
			the past			
			including the			
			2016-2018			
			PhD thesis			
			that			
			evaluated by			
			catch and			
			discards in			
			the Ratnagiri			
			area.			
٨3	Projected					
2	Actual					
лл	Projected					
ł	Actual					
D 1	Projected					
DI	Actual					
C1	Projected					
CI	Actual					
D1	Projected					
	Actual					
	Projected		Involvement			
	Trojecteu		of CIFT			
F1			CIFT – were			
			committed to			
			attending the			
			workshop,			
			but were			
	Actual	Completed	delayed by			
			monsoon			
			TIOODS IN			
			bue require			
			ala not make			
			it. Email trail	1		



			available to			
			confirm if			
			required			
			A copy of the			
			workshop			
			outcomes			
			has been			
			supplied and			
			follow up			
			discussions			
			hold			
			Ineru			
	Projected					
			CMFRI - were			
			committed to			
			attending the			
			workshop			
			but were			
			delayed by			
			monsoon			
			floods in			
			Mumbai and			
			did not make			
			it. Email trail			
			available to			
			confirm if			
			required.			
			A copy of the			
F2			workshop			
	Actual	Completed	outcomes			
		completed	has been			
			supplied and			
			follows up			
			discussions			
			held CEMRI			
			kindly			
			cupplied a			
			supplied a			
			copy of their			
			released			
			released			
			comprenensi			
			ve report			
			entitled The			
			Enigmatic			
			Sardine'			
			which			
			contains a			



			n	1ari Tru	GREDIEN TO RESPONSIBLE
		wealth of useful information.			
F.2	Projected				
F3	Actual				



Table 1 Rating key

Each section of the MarinTrust Fishery Assessment is assigned a Projected and Actual rating for each milestone date, according to the table below. Projected ratings are assigned when the FIP is accepted into the IP. Actual ratings are assigned as a result of the validation assessment conducted at each milestone date. In a FIP which is progressing according to the FAP timeline, the Projected and Actual ratings will be the same.

Colour	MarinTrust Rating
	Fully Compliant with all MarinTrust Raw Material Approval Criteria within this section.
	For sections in categories A-D this indicates that all criteria within that section are met
	for all applicable species.
	Compliant with some MarinTrust Raw Material Approval Criteria within this section. For
	sections in categories A-D this indicates that some criteria are not met by some
	applicable species.
	Non-Compliant with any MarinTrust Raw Material Approval Criteria within this section.
	For sections in categories A-D this indicates that no criteria are met by any applicable
	species.
	Critical Milestone Raised against one or more criteria within this section.

Critical Improvements

Section	Milestone date	Critical Milestone Due

Table 1 Summary

[Summarise outcomes of table, i.e. is the FIP on track?]



TABLE 2 – FAP PROGRESS SUMMARY

The table below summarises the progress the fishery has made in implementing the improvement actions detailed in the FAP. An 'X' indicates that the Improvement Action is scheduled to be completed by that milestone date, according to the FAP at the time of acceptance into the IP.

Improvement Action	6 months	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Year 5
 Data collection program based on results of workshop As previously reported a workshop was held in Ratnagiri on 03/7/2019 in association with College of Fisheries Ratnagiri to discuss improved data collection for the fisheries with a focus on gaining a better understanding of aspects such as catch composition, any interactions with protected species and any seabed interactions. It was determined that an observer program was the best way to deliver on this and a follow up meeting was held with the College of Fisheries on 04/7/2019 to discuss sampling frequency, costs, logistics and sampling strategy. The 2019-2020 fishing season has proven to be extremely poor. For the months of October 2019 to March 2020there were virtually no catches of oil sardines at all and the proposed observer program was postponed. The season is coming to a close by May end and, whilst official landings statistics are not yet available anecdotal reports from the main landing site in Ratnagiri and Goa suggest that sardine catches have declined considerably . The reasons for this decline are currently unknown but could include overfishing, natural environmental variation (via the Indian Ocean Dipole – the el Nino equivalent that operates in the Indian Ocean), climate change, 	Completed prior to FAP approval but included in draft FAP	Research Project on Stock Assessment of Indian oil sardine and Indian mackerel commenced and progressing well. Memorandum of Understanding (MoU) with Diploma in Fisheries Engineering, Konkan Krishi				



or other factors. The main area of stock abundance and fishery production Vidhyapeedh Ratnagiri was is to the south of the FIP area where there are considerable efforts signed on 17th underway to control catches of sardines August 2020. (REFERENCE – The enigmatic Indian oil sardine By CMFRI : Attachment 1) The study is expected to be Mackerel catches have been better. Previous studies have found that completed in whilst sardines exhibit long term fluctuations in landings, mackerel August 2022. landings are far more seasonal. . Scanned copy (REFERENCE: Observed Variability in oil sardine and mackerel fishery of of MoU is South West Coast of India – Statistical Approach , A study Report by Cochin attached. University of Science and Technology : Attachment 2) (Attachment A) Data collection has been It should be noted that the undertaken on fishing season saw large a weekly basis. numbers of black triggerfish Please see (Melichthys indicus) attached note from Dr. M M Shirdhankar, Principal Investigator of the Project. (Attachment A1) Whether this is a natural 'outbreak' or a symptom of some other change is unknown. At present there is some modelling being undertaken of the



marine ecosystem in South West India which may shed some light on this as there is growing concern about excess fishing pressure (not sardine related), especially in the demersal trawl sector.

A full tally of landings should be available some time later this year.

Now the 2019 fish landing figures are available. According to CMFRI, though India's marine production registered a marginal increase of 2.1% (3.56 Million Tonnes) in 2019 compared to the previous year, Maharashtra and Goa recorded 32% and 44% fall respectively in fish landings. The red toothed trigger fish (*Odonus niger*) landing raised to 2,74,000 metric tonnes registered a huge increase in landings compared to its previous year landing of 72000 metric Tonnes. Maharashtra witnessed its lowest annual fish catch in 45yrs in 2019 at 0.201 million tonnes. The environmental factors such as extended heavy rain beyond monsoon, six tropical cyclones such as Fani in April, Vayu in June, Hika in September, Kyaar in October, Maha in October and Bulbul in November 2019 in the Arabian sea are the main reason for the significant drop in fishing hours and 36% drop in number of fishing days in 2019.

Total estimated landings in Goa are 33000 Metric tonnes and Indian mackerel remained as the top most resources as in 2018 with slight drop in landings.

The condition of the marine fisheries sector during this year also somewhat similar to the conditions prevailing last year. The lockdown imposed due to the outbreak of Covid 19 pandemic has created huge loss to the fishing industry. According to CMFRI, the first 40 days lockdown in the country created a country wise estimated loss of Rs.116520 Millions in fisheries sector. This is excluding the post harvest and export catch loss

Fish sampled for length and biological parameters. See attached 23 photos. (A2)		



estimated separately in the sea food export sector. Even now nearly 40% fishing vessels are not venturing to sea due to the non availability of crew on account of Covid 19. (Sources: Marine Fish Landings in India 2019 by CMFRI, The Hindu dated 1st July 2020, Hindustan Times dated 1 st July 2020 & The Times of India dated 1 st July 2020) (Attachments B,C,D & E)				
 MCS arrangements in Maharashtra Govt. of Maharashtra has a sound and effective Monitoring Control and Surveillance system with necessary legal backing. All fishing vessels will abide by the MCS requirements and have suitable Vessel Tracking System (VTS). The coastal districts of Maharashtra have one patrolling vessel each to undertake the monitoring activities in order to prevent deter and eliminate the IUU fishing. The vessels involved in IUU fishing activities are caught and fined as per the provisions in the Marine Fisheries Regulation Act of the State. (MFR Act copy –attachment 3) Update on the MCS activities in the state will be obtained once we have discussion with the Fisheries Department officials. We have been in contact with them for follow up. We attach emails documenting these efforts.(Attachment 4) We would like to reschedule this action item until after the COVID 19 lockdown is lifted and more urgent activities for officials are out of the 	See attachments for progress to date. Will require carryover into post COVID19 period when lock down is lifted	Update from the Fisheries Department is awaited. Please see the copy of email dt.25th September 2020 addressed to the Asst. Commissione r of Fisheries, Ratnagiri. Lockdown in the country due to COVID 19 is still in force.		



way.				
 3.Liaise with government officials over the need for proper resourcing for MCS in Goa We have been in contact with the officials in the Goa Department of Fisheries to follow this up. We attach emails documenting these efforts. At present the COVID19 lockdown is hindering progress on this Action item as officials prefer to meet in person. We would like to reschedule this action item until after the lockdown is lifted and more urgent activities for officials are out of the way. 	See attachments for progress to date. Will require carryover into post COVID19 period when lock down is lifted	We are in regular contact with the officers at the department of fisheries Goa over phone. Direct liaise is possible only after the lifting of lockdown.		
 4. Provide evidence of enforcement in both Goa and Maharashtra We have been in contact with the officials in the Goa Department of Fisheries to follow this up. We attach emails documenting these efforts. (Attachment4)We are aware of the existence of a high speed patrol vessel available for the waters of Goa and Maharashtra and there is also provision for the issuance of fines. 	See attachments for progress to date. Will require carryover into post COVID19 period when lock	Documentary evidence from both the Fisheries Departments is awaited. Please see the copy of email dt.25 th September20		



fishing regulations . MFR Act of Goa is attached.(Attachment 5)	lifted	to the		
		Director of		
At present the COVID19 lockdown is hindering further progress on this		Fisheries		
Action item as officials prefer to meet in person.		Goa, and		
		Asst.Commis		
We would like to reschedule this action item until after the lockdown is		sioner of		
lifted and more urgent activities for officials are out of the way.		Fisheries,		
		Ratnagiri.		
		Lockdown in		
		the country		
		due to COVID		
		19 is still in		
		force		
		(Attahment		
		F&G)		
5. Detailed review of literature including any local projects		Access to the		
We have reached out to some research providers to gather information	See	libraries of		
that may be relevant to the purse seine fishery.	attachments	College of		
	for progress	Fisheries,		
According to the Ratnagiri College of Fisheries there are a number	to date. Will	Ratnagiri and		
of student projects and post graduate degree theses that may be	require	CIFT Kochi is		
relevant but we would need to search the library in person. We are	carryover	controlled		
welcome to do this once the lockdown is lifted.	into post	due to Covid		
	COVID19	pandemic.		
• We were made aware (see attachment 6 : copy of email from	period	Once the		
Dr.Leela Edwin, Principal Scientist, Central Institute of Fisheries	when lock	situation		
Technology(CIFT), Kochi) of a current PhD being undertaken that is	down is	improves, we		
relevant. Again, once the lockdown is lifted we are welcome to	lifted	will make it		
discuss the project with the student involved.		up.		



At present the COVID19 lockdown is hindering further progress on this Action item although we have made some headway. We would like to reschedule this action item until after the lockdown is lifted and we are able to search as requested.				
6. Resolve catching method for mackerel		During the Stock		
We have coarched for information about the catching of mackarol. There is		Assessment		
no law prohibiting a purse same vessel form having both a sardine pet and		study, catch		
a mackerel net onboard. For the case of Maharashtra the regulations state		composition		
that a sarding net should not have a mesh size of less than 25mm and for		or purse		
mackerel the mesh size should not he less than 49mm. Thus it would		will he		
annear that fishing for the two species groups is conducted in separate		recorded by		
operations (see Attachment 7 – Maharashtra Govt, order dt		the onboard		
5 th February 2016, page 2)	See	observer.		
5 (condity),2010, page 2).	for progress	Apart from		
We have obtained one scientific publication documenting the composition	to date Will	that he will		
of catches in purse seines along the coast near Ratnagiri (Kamble et al	require	be asked to		
2017, see Attachment 8). The mesh size of the purse seines was not	carryover	give a		
recorded. The catch of sardine species (oil and lesser) was about 43% and	into post	detailed		
the catch of mackerels (Indian and horse) was about 24%. As is common in	COVID19	mackerel		
tropical fisheries, and as evidenced by the other literature cited as well,	period	catching		
species composition is highly variable across time (months and years, and	when lock	which will		
space.	down is	help resolve		
Further information on how fishing is conducted will be collected when the	inteu	the issue.		



observer program is underway. It should be possible to learn how fishermen fish separately for sardines versus mackerel and to see how the catch composition of the two different mesh types may differ.			



Table 2 Summary

[Summarise Table 2, i.e. have all the scheduled improvement actions been implemented on time?]



Table 2 Rating key

Each major action in the FAP is assigned a progress rating for each milestone date, according to the table below. In a FIP which is progressing according to the FAP timeline, all progress ratings will be green.

Colour	FAP Progress Rating
	This action has been completed as planned, or earlier than planned.
	This action is not scheduled to have been completed by this milestone date, and there is no evidence that progress towards completing
	it has fallen behind schedule.
	This action is scheduled to have been completed by this milestone date, but has not yet been completed.
	This action was scheduled to be completed by a previous milestone date and is still not completed. This represents a failure to complete
	a Critical Milestone.



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.